

APPENDIX H TECHNICAL ANALYSES



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APPENDIX H LIST OF TECHNICAL ANALYSES IN ORDER OF OCCURRENCE

For Alignment and Stations

- Air Quality
- Noise
- Geotechnical
- Hazardous Substances
- Hydrology

For Maintenance Facility Site

- Traffic
- Air Quality
- Noise
- Geotechnical/Hazardous



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Appendix A Construction Emissions

Crenshaw LRT Construction Emission Factors

2013 EMFAC2007 RATES (grams per mile)											
Vehicle Type	CO	ROG	NO ₂	SO ₂	PM ₁₀	PM _{2.5}	CO ₂				
Haul Truck @ 20 MPH	6.482	1.114	8.7	0.017	0.455	0.4186	1784.35				
Worker Vehicle @30 MPH	1.752	0.063	0.137	0.003	0.031	0.02852	343.84				

Assumptions:

EQUIPMENT EMISSION FACTORS (pounds per hour)											
CO ROG NO _X SO _X PM ₁₀ PM _{2.5} CO ₂											
Equipment	0.3765	0.0872	0.7938	0.0013	0.0330	0.0304	123.00				
Source: CARB Off-Road Emiss	Source: CARB Off-Road Emission Factors										

Title : Construction Haul Truck and Worker Commute Emission Factors

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2011/01/20 18:44:49

Scen Year: 2013 -- All model years in the range 1969 to 2013 selected

Season : Annual

Year: 2013 -- Model Years 1969 to 2013 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Los Angeles County Average

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant	Name:	Total	Organic	Gases	Tem	mperature:	70F	Relative Humidity:	50%
Speed									
MPH	T-DA	T.I	חיד דו	MDT	HDT	UBUS	MCY	AT.T.	

MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
20	0.099						
30	0.063	0.099	0.175	0.729	0.950	2.256	0.130

Temperature: 70F Relative Humidity: 50% Pollutant Name: Carbon Monoxide

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
20			4.047			18.266	2.968
30	1.752	2.660	3.166	4.493	5.749	17.222	2.403

Pollutant Name: Oxides of Nitrogen Temperature: 70F Relative Humidity: 50%

MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
20 30					16.134 13.589		0.690 0.616

Temperature: 70F Relative Humidity: 50% Pollutant Name: Carbon Dioxide

MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
20 30					2272.959 2190.965		

Pollutant Name: Sulfur Dioxide Temperature: 70F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
20	0.004	0.006	0.008	0.017		0.002	0.006
30	0.003	0.004	0.006	0.015		0.002	0.004

Temperature: 70F Relative Humidity: 50% Pollutant Name: PM10

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
20	0.017	0.036	0.038	0.409	0.318	0.024	0.043
30	0.010	0.022	0.023	0.299	0.213	0.020	0.029

Pollutant	Name:	PM10 - Tir	e Wear	Tei	mperature:	70F	Relative	Humidity:	50%
Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL		
20 30	0.008	0.008	0.009	0.025 0.025	0.009	0.004 0.004			
Pollutant	Name:	PM10 - Bra	ke Wear	Tei	mperature:	70F	Relative	Humidity:	50%
Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL		
20 30	0.013 0.013	0.013 0.013	0.013 0.013	0.021 0.021	0.013 0.013	0.006	0.013 0.013		

EQUIPMENT				Equipment Emissions (ppd)						
	Hours in		Total							
Construction Phase	Work Day	# Equipment	Equpiments	CO	ROG	NOX	SOX	PM10	PM 2.5	CO2
General Construction Activity	12	20	20	90.36	20.93	190.51	0.31	7.92	7.29	29,520.00

WORKER VEHICLES						Worker	Vehicle Emission	ns (ppd)			
			# Worker								
		Round Trip	Vehicle @ 1.1								
Construction Phase	# of Workers	Length	AVR	Total VMT/Day	co	ROG	NOX	sox	PM10	PM 2.5	CO2
General Construction Activity	150	13.3	136.36	1,813.64	7.00	0.25	0.55	0.012	0.124	0.11	1,373.578

HAUL TRUCKS						Haul Truck Emissions (ppd)						
Construction Phase	Debris / Pavement / Concrete per Day (cy/day)	# of Haul Loads per Day (20 cy/load)	# of Haul Loads per Hour	Haul Truck Round Trip Length	Haul Truck VMT/day	со	ROG	NOX	sox	PM10	PM2.5	CO2
General Construction Activity	4,000.00	200	16.7	20	4,000	57.11	9.81	76.65	0.15	4.01	3.69	15,721.13

	Dirt Piling/Material Handling							
					(H/2)^1.4,			
		Tons of	Pounds of	(G/5) ^{1.3} ,	H=Moisture	PM10	PM 2.5	
Construction Phase		Dirt/Day	Dirt/day	G=Wind Speed	Content	Emissions	Emissions	
General Construction Activity	4,000	4,860	9,720,000	0.54	6.36	0.46	0.05	

	Dragline					
	Daily					
	Volume (cy	PM10	PM2.5			
Construction Phase	Debris/day)	Emissions	Emissions			
General Construction Activity	4,000.00	16.80	6.80			

NOTES:	
Average Wind Speed (mph)	3.10
Moisture Content	7.5%
Dirt Weight	2,000
Silt Content	10%

TOTAL EMISSIONS								sions Calcs
Construction Phase	co	ROG	NOX	SOX	PM10	PM2.5	pounds/day	metric tons/year
ON SITE	90	21	191	0.3	25	14	46,615	7,827
OFF SITE	57	10	77	0	4	4		
TOTAL	147	31	267	0	29	18		

Appendix B Operational Emissions

Title : Crenshaw - Operational Emissions

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2008/09/03 10:45:48

Scen Year: 2030 -- All model years in the range 1986 to 2030 selected

Season : Annual

Area : Los Angeles (SC)

Year: 2030 -- Model Years 1986 to 2030 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

Los Angeles (SC) Los Angeles (SC) Los Angeles (SC)

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Total Organic Gases Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL
23 0.021 0.040 0.058 0.314 0.553 2.387 0.060

Pollutant Name: Carbon Monoxide Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.670 1.228 1.397 1.552 4.086 15.388 1.059

Pollutant Name: Oxides of Nitrogen Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.046 0.099 0.185 2.425 7.416 1.039 0.230

Pollutant Name: Sulfur Dioxide Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

 $0.004 \qquad 0.005 \qquad 0.007 \qquad 0.017 \qquad 0.017 \qquad 0.002 \qquad 0.005$

Pollutant Name: PM10 Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.015 0.035 0.035 0.103 0.158 0.016 0.029

Pollutant Name: PM10 - Tire Wear Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.008 0.008 0.009 0.025 0.010 0.004 0.009

Pollutant Name: PM10 - Brake Wear Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.013 0.013 0.013 0.021 0.013 0.006 0.013

Pollutant Name: Methane Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL
23 0.009 0.016 0.018 0.015 0.030 0.192 0.013

Pollutant Name: Carbon Dioxide Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 401.212 514.282 701.026 1740.724 1797.938 158.982 548.358

Crenshaw LRT Operational Criteria Pollutant Emissions

Crenshaw Vehicle Miles Traveled (VMT) Summary ¹							
Scenario	Auto Regional VMT	Bus VMT	LRT VMT	Total Miles Traveled			
NB	454,428,833	686,607	0	455,115,440			
LRT	454,261,449	686,662	3,632	454,951,743			

	Crenshaw VMT Alternative Comparison							
Scenario Auto Regional VMT Bus VMT LRT VMT Total VMT								
NB v. LRT	-167,384	54	3.632	-163.698				

	Automobile Emission Factors (grams/mile)							
Vehcile	Vehcile VOC CO NO _X SO _X PM _{2.5} PM ₁₀							
Auto ²	0.031	0.949	0.073	0.005	0.010	0.015		
Bus ³	0.820	8.20	4.92	-	0.040	0.041		

	Light Rail Transit Emission Factors (pounds/megawatt-hour)						
Vehcile	Vehcile VOC CO NO _X SO _X PM _{2.5} PM ₁₀						
Light Rail	0.010	0.200	1.150	0.120	0.040	0.040	

	Regional Operational Emissions (pounds/day)							
Scenario	Scenario VOC CO NO _X SO _X PM _{2.5} PM ₁₀							
NB v. LRT ³	NB v. LRT ³ -11 -337 45 5.7 -1.2 -3.2							

	Regional Operational Emissions (tons/yr)							
Scenario	Scenario VOC CO NO_{χ} SO_{χ} $PM_{2.5}$ PM_{10}							
NB v. LRT	√B v. LRT -2.0 -61 8 1.0 -0.2 -0.6							

Vehicle miles traveled obtained from traffic analysis. Does not include Metrolink miles.
 Auto emission factors obtained from EMFAC2007.
 Assumes 17 kilowatt-hours per train mile.

Crensahaw LRT Operational Greenhouse Gas Emissions

Crenshaw Vehicle Miles Traveled (VMT) Summary ¹							
Scenario Auto Regional VMT Bus VMT LRT VMT Total Miles Traveled							
NB	454,428,833	686,607	0	455,115,440			
LRT	454,261,449	686,662	3,632	454,951,743			

	Crenshaw VMT Alternative Comparison								
Scenario	Scenario Auto Regional VMT Bus VMT LRT VMT Total VMT								
NB v. LRT	-167,384	54	3,632	-163,698					

Em	nission Factors (grams/mi	ile)	Emission Factors (pounds/kilowatt-hour)					
Auto ² Bus ³			Light Rail ³					
CO ₂			CO ₂	CH₄	N ₂ O			
548.358	0.013	3,275	0.805	0.000067	0.000037			

GHG Emissions (metric tons/year)					
Scenario	GHG				
NB v. LRT ⁴	-25,568				

¹ Vehicle miles traveled obtained from traffic analysis. Urban rail miles are identical (18,156) for each alternative. 2 Auto emission factors obtained from EMFAC2007.

³ California Climate Action Registry, General Reporting Protocol, March 2007. 4 Assumes 17 kilowatt-hours per train mile.



Appendix A LRT Noise and Vibration

Category 1&3 = Le Category 2 = Ldn

# Alignment I Description Being Used Reading Noise Impact (adjusted)												Category 2 = Ld	in		
Pales	Rec.	Street That	S	LRT Alignment	Receptor	Noise	Speed	Distance	Distance	Measurement	Measurement	Project	Level	Vibration	Vibration
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Rec.	Street That	Receptor	Noise	Technology	Distance	Daytime Av	erage, 7a.m1	0.p.m. (Cat 2)	Nighttime	e Average, 10	p.m7a.m.			LRT Only	/		Shielding	Category 1&3=Peak Leq
#	Alignment	Description	Sensitive		from Alignment		Hour of Activit			Category 2 On	•	Wheel Flat	Jointed	Embedded	Aerial	Barrier	# of	Category 2=Ldn
	Follows	·	Category (1,2,3)		to Receptor (ft)	Speed (mph)		Cars/Train	Speed (mph)		Cars/Train	%	Track? (Y/N)	Track? (Y/N)	Structure? (Y/N)	Present?	Intervening Building Rows	(dBA) Per Source
В	Crenshaw Blvd	Sweet Hour of Prayer Faith Church	3	4	80	35	20	2	55	6	2	0	n	n	n	n	0	56
В	Crenshaw Blvd	Muhammad Mosque No. 27	3	4	80	35	20	2	55	6	2	0	n	n	n	n	0	56
В	Crenshaw Blvd	Iglesia De Dios Pentecostal	3	4	80	35	20	2	55	6	2	0	n	n	n	n	0	56
С	Crenshaw Blvd	Bethel Chapel Community Church	3	4	75	35	20	2	55	6	2	0	n	n	n	n	0	57
В	Crenshaw Blvd	Masjid Balal Ibn Rabah (Church)	3	4	80	35	20	2	55	6	2	0	n	n	n	n	0	56
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С	Crenshaw Blvd Crenshaw Blvd	Schools	3	4	72	35	20	2	55	6	2	0	n	n	n	n	0	57
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В	Crenshaw Blvd	Bethesda Temple Apostolic Church	3	4	80	35	20	2	55	6	2	0	n	n	n	n	0	56
В	Crenshaw Blvd	Escuela Elementary Center	3	4	80	35	20	2	55	6	2	0	n	n	n	n	0	56
В	Crenshaw Blvd	4802, 4808, 4812 Crenshaw	2	4	110	35	20	2	55	6	2	0	n	n	n	n	0	60
В	Crenshaw Blvd	4816 Crenshaw	2	4	82	35	20	2	55	6	2	0	n	n	n	n	0	61
В	Crenshaw Blvd	4822, 4826, 4830 Crenshaw	2	4	106	35	20	2	55	6	2	0	n	n	n	n	0	60
В	Crenshaw Blvd	4900 Crenshaw	2	4	77	35	20	2	55	6	2	0	n	n	n	n	0	62
В	Crenshaw Blvd	4904 Crenshaw	2	4	115	35	20	2	55	6	2	0	n	n	n	n	0	59
В	Crenshaw Blvd	4908 Crenshaw	2	4	144	35	20	2	55	6	2	0	n	n	n	n	0	58
В	Crenshaw Blvd	4916 Crenshaw	2	4	88	35	20	2	55	6	2	0	n	n	n	n	0	61
В	Crenshaw Blvd	4924, 4928 Crenshaw	2	4	112	35	20	2	55	6	2	0	n	n	n	n	0	59
В	Crenshaw Blvd	3315 W 50th St.	2	4	72	35	20	2	55	6	2	0	n	n	n	n	0	62
В	Crenshaw Blvd	4835 Crenshaw	2	4	80	35	20	2	55	6	2	0	n	n	n	n	0	62
В	Crenshaw Blvd	5001 Crenshaw	2	4	120	35	20	2	55	6	2	0	n	n	n	n	0	59
В	Crenshaw Blvd	5009, 5017 Crenshaw	2	4	128	35	20	2	55	6	2	0	n	n	n	n	0	59
В	Crenshaw Blvd	5025, 5031 Crenshaw	2	4	135	35	20	2	55	6	2	0	n	n	n	n	0	58
В	Crenshaw Blvd	5101, 5107 Crenshaw	2	4	136	35	20	2	55	6	2	0	n	n	n	n	0	58
В	Crenshaw Blvd	5117 Crenshaw	2	4	88	35	20	2	55	6	2	0	n	n	n	n	0	61
С	Crenshaw Blvd	5903 Crenshaw	2	4	64	35	20	2	55	6	2	0	n	n	n	n	0	63
С	Crenshaw Blvd	5909 Crenshaw	2	4	72	35	20	2	55	6	2	0	n	n	n	n	0	62
2 2	Crenshaw Blvd Florence Ave	5919, 5925 Crenshaw Inglewood Park Cemetery	3	4	64 160	35 55	20	2	55 55	6	2	0	n n	n n	n n	n v	0	63 51
	Florence Ave	Briercrest Inglewood Healthcare	3	4	100	55	20		55	0		0	- "	- 11	- ''	У	U	31
D	Florence Ave	Center	2	4	72	55	20	2	55	6	2	0	n	n	n	l n	0	63
D	Florence Ave	Edward Vincent Park	1	4	520	55	20	2	55	6	2	0	n	n	n	n	0	48
Е	Florence Ave	Faithful Central Bible Church	3	4	72	35	20	2	35	6	2	0	n	n	n	n	0	57
		St. John's Chrystostom Church and																
D	Florence Ave	School	3	4	200	55	20	2	55	6	2	0	n	n	n	n	0	54
1	Florence Ave	7107 Brynhurst	2	4	120	55	20	2	55	6	2	0	n	n	n	n	2	54
1	Florence Ave	7112 West Blvd	2	4	120	55	20	2	55	6	2	0	n	n	n	n	0	60
1	Florence Ave	7124 West Blvd	2	4	192	55	20	2	55	6	2	0	n	n	n	n	0	57
D	Florence Ave	714 E Florence	2	4	200	55	20	2	55	6	2	0	n	n	n	n	0	57
D D	Florence Ave	700, 708 E Florence 444 N Osage Ave	2	4	184 260	55 55	20	2 2	55 55	6	2	0	n	n	n	n	2	57 49
D	Florence Ave	608, 618 E Florence	2	4	200	55 55	20	2	55 55	6	2	0	n n	n n	n n	n n	0	49 57
D	Florence Ave	612 E Florence	2	4	220	55	20	2	55	6	2	0	n	n	n	n	0	56
D	Florence Ave	600 E Florence	2	4	192	55	20	2	55	6	2	0	n	n	n	n	0	57
D	Florence Ave	333 - 423 La Colina, 338 Beach	2	4	64	55	20	2	55	6	2	0	n	n	n	n	0	64
9	Florence Ave	7862 Midfield Ave	2	4	150	35	20	2	35	6	2	0	n	n	у	n	1	54
Е	Florence Ave	619 Regent	2	4	120	35	20	2	35	6	2	0	n	n	n	n	0	56
F	Aviation Blvd	9706, 9712, 9720 Aviation Blvd	2	4	240	35	20	2	35	6	2	0	n	n	n	n	0	52
F	Aviation Blvd	5524 W 98th St	2	4	123	35	20	2	35	6	2	0	n	n	у	n	0	60
F	Aviation Blvd	5447 W Century Blvd	2	4	123	35	20	2	35	6	2	0	n	n	у	n	0	60
D	Florence Ave	Courthouse	3	4	83	55	20	2	55	6	2	0	n	n	n	n	0	60
С	Crenshaw Blvd	5716, 5720, 5728 Crenshaw	2	4	74	55	20	2	55	6	2	0	n	n	n	n	0	63
F	Aviation Blvd	Crimson Technical College	3	4	60	35	20	2	35	6	2	0	n	n	n	n	0	58
9	Florence Ave	Westchester Playhouse	3	4	335	35	20	2	35	6	2	0	n	n	n	n	0	47
9 E	Florence Ave Florence Ave	Stilleto Entertainment 129 Ash	2	4	52 136	35 35	20 20	2 2	35 35	6	2	0	n	n	n	n	0	59 55
F	Aviation Blvd	Merle Norman	3	4	88	35	20	2	35	6	2	0	n n	n n	n n	n n	0	56
56	Crenshaw Blvd	G Life Records	1	4	290	55	20	2	55	6	2	0	n	n	n	n	0	52
- 55	Oronanaw Divu	O Life Necords	- ' -		230	55			55	μ υ		U	- ''	- ''		 "		52

Crenshaw LRT Below-Grade Vibration and Noise Analysis

Address	Receptor Description	Noise Sensitive Category	Speed	Distance from Alignment to Receptor	Vibration Criteria	Vibration Level (adjusted	GB Noise
		(1,2,3)	(mph)	(ft)	(Vdb)	to speed) (Vdb)	(Vdb)
6627 Crenshaw	Residential	2	25	43	72	68	33
6621 Crenshaw	Residential	2	30	50	72	69	34
6613 Crenshaw	Residential	2	35	43	72	71	36
6607 Crenshaw	Residential	2	35	58	72	69	34
6601 Crenshaw	Residential	2	35	43	72	71	36
6531 Crenshaw	Residential	2	35	43	72	71	36
6501 Crenshaw	Hyde Park Congressional Church	3	35	43	75	71	36
6419 Crenshaw	Residential	2	35	50	72	70	35
6416 Crenshaw	Mision Cristiana El Amor (Church)	3	35	43	75	71	36
6412 Crenshaw	Residential	2	35	74	72	68	33
6345 Crenshaw	Cornett Motel	2	35	43	72	71	36
6340 Crenshaw	Hyde Park Motel	2	35	43	72	71	36
6332 Crenshaw	Residential	2	35	43	72	71	36
6326 Crenshaw	Residential	2	35	50	72	70	35
6315 Crenshaw	Revival Center Church of God	3	35	43	75	71	36
6303 Crenshaw	Crenshaw Inn Motel	2	35	43	72	71	36
6215 Crenshaw	Residential		35	50	72	70	35
6207 Crenshaw	Residential	2	35	47	72	71	36
6203 Crenshaw	Residential	2	35	47	72	71	36
6121 Crenshaw	Residential	2	35	43	72	71	36
6131 Crenshaw	Residential	2	35	50	72	70	35
6103 Crenshaw	St. John the Evangelist School and Church	3	35	54	75	70	35
6028 Crenshaw	Senior Living Center	2	35	90	72	65	30
5969 Crenshaw	St. Mark's Baptist Church	3	55	58	75	73	38
4601 Crenshaw	Harrison-Ross Mortuary	3	35	64	75	69	34
4514 Crenshaw	Today's Fresh Start School	3	35	261	75	57	22
4508 Crenshaw	Golden Day & University	3	35	231	75	57	22
4434 Crenshaw	Tavis Smiley Foundation	1	35	16	65	>78	>43
4309 Crenshaw	2 Down Front Entertainment	1	35	60	65	69	34
4309 Crenshaw	Laq Records	1	35	120	65	63	28
4225 Crenshaw	Maverick's Flat	1	35	45	65	71	36
4101 Crenshaw	Broadway Department Store	3	35	84	75	66	31
4030 Crenshaw	DWP Building	3	35	41	75	71	36
4005 Crenshaw	May Company Building	3	55	92	75	69	34
3964 Crenshaw	Residential	2	55	88	72	70	35
3875 Crenshaw	Angelus Funeral Home	1	35	92	65	65	30
3773 Crenshaw	Lulu Washington Dance Theater		55	80	72	70	35
3683 Crenshaw	One United Bank		25	28	75	72	37
3677 Crenshaw	Jim Eve Records		35	50	65	70	35
3600 Crenshaw	West Los Angeles Church of God	3	35	201	75	57	22
3321 50th	Residential	2	55	95	72	69	34
3319 50th	Residential	2	55	140	72	65	30
3413 63rd	Residential	2	55	89	72	70	35
3331 59th	Residential	2	55	66	72	72	37

RESULTS								
Noise Source	Leq - 1-hr (dB)							
All Sources	56							
Source 1	56							
Source 2	0							
Source 3	0							
Source 4	0							
Source 5	0							
Source 6	0							
Source 7	0							
Source 8	0							

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

Parameter	Source 1		Source 2	Source 3	Source 2		
			Source 2	Source 3			
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	80					
Noisiest Hour of	speed (mph)	35					
Activity During	trains/hour	20					
Sensitive Hours	cars/train	2					
		55					
		6					
		2					
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n	1000000				
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS								
Noise Source	Leq - 1-hr (dB)							
All Sources	56							
Source 1	56							
Source 2	0							
Source 3	0							
Source 4	0							
Source 5	0							
Source 6	0							
Source 7	0							
Source 8	0							

Enter data for u	p to 8 noise sources	below - see referer	nce list for source r	numbers.

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	80		
Noisiest Hour of	speed (mph)	35		
Activity During	trains/hour	20		
Sensitive Hours	cars/train	2		
		55		
		6		
		2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST	Number
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Leq - 1-hr (dB)		
All Sources	56		
Source 1	56		
Source 2	0		
Source 3	0		
Source 4	0		
Source 5	0		
Source 6	0		
Source 7	0		
Source 8	0		

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS	IOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
	distance (ft)	80				
	speed (mph)	35				
Activity During	trains/hour	20				
Sensitive Hours	cars/train	2				
		55				
		6	I			
		2	Ī			
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST					
Source	Number				
Commuter Electric Locomotive	1				
Commuter Diesel Locomotive	2				
Commuter Rail Cars	3				
RRT/LRT	4				
AGT, Steel Wheel	5				
AGT, Rubber Tire	6				
Monorail	7				
Maglev	8				
Freight Locomotive	9				
Freight Cars	10				
Hopper Cars (empty)	11				
Hopper Cars (full)	12				
Crossover	13				
Automobiles	14				
City Buses	15				
Commuter Buses	16				
Rail Yard or Shop	17				
Layover Tracks	18				
Bus Storage Yard	19				
Bus Op. Facility	20				
Bus Transit Center	21				
Parking Garage	22				
Park & Ride Lot	23				

RESULTS			
Noise Source	Leq - 1-hr (dB)		
All Sources	57		
Source 1	57		
Source 2	0		
Source 3	0		
Source 4	0		
Source 5	0		
Source 6	0		
Source 7	0		
Source 8	0		

Enter data for up to 8 noise	sources below - see reference	e list for source numbers.

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	75		
Noisiest Hour of	speed (mph)	35		
Activity During	trains/hour	20		
Sensitive Hours	cars/train	2		
		55		
		6		
		2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST Source	Number
Commuter Electric Locomotive	Number
Commuter Diesel Locomotive	
Commuter Diesei Locomotive Commuter Rail Cars	2 3
RRT/I RT	3 4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS	RESULTS			
Noise Source	Leq - 1-hr (dB)			
All Sources	56			
Source 1	56			
Source 2	0			
Source 3	0			
Source 4	0			
Source 5	0			
Source 6	0			
Source 7	0			
Source 8	0			

Enter data for up to 8 noise sources below - see reference list for source numbers.

Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	80			
Noisiest Hour of	speed (mph)	35			
Activity During	trains/hour	20			
Sensitive Hours	cars/train	2			
		55			
		6	Ī		
		2	I		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS		
Noise Source	Leq - 1-hr (dB)	
All Sources	57	
Source 1	57	
Source 2	48	
Source 3	0	
Source 4	0	
Source 5	0	
Source 6	0	
Source 7	0	
Source 8	0	

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4	Crossover	13		
Distance (source to receiver)	distance (ft)	72	distance (ft)	72		
Noisiest Hour of	speed (mph)	35	trains/hour	20		
Activity During	trains/hour	20	duration of one train (sec)	10		
Sensitive Hours	cars/train	2				
		55				
		6				

Activity During trainshour 20 duration of one train (sec) 10 Sensitive Hours cars/train 2 Constitue Hours 2 Constitue Ho							
Sensitive Hours	Activity During	trains/hour	20	duration of one train (sec)	10	1	
6 2	Sensitive Hours	cars/train	2			1	
6 6			55				
Wheel Flats?			6	l .		1	
Jointed Track?				Ī			
Embeddod Track? Y.N n Y.N Aerial Structure? Y.N n Y.N Aerial Structure? Y.N n Y.N Aerial Present? Y.N n Y.N	Wheel Flats?	% of cars w/ wheel flats	0.00%				
Aerial Structure? Y/N n Y/N Barrier Present? Y/N n Y/N	Jointed Track?	Y/N	n				
Barrier Present? Y/N n Y/N	Embedded Track?	Y/N	n	Y/N			
	Aerial Structure?						
Intervening Rows of of Buildings number of rows 0 number of rows	Barrier Present?	Y/N	n	Y/N		1	
· · · · · · · · · · · · · · · · · · ·	Intervening Rows of of Buildings	number of rows	0	number of rows			
				,			

SOURCE REFERENCE LIST	Number
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS		
Noise Source	Leq - 1-hr (dB)	
All Sources	56	
Source 1	56	
Source 2	0	
Source 3	0	
Source 4	0	
Source 5	0	
Source 6	0	
Source 7	0	
Source 8	0	

	up to 8 noise	sources below	v - see reference	e list for sour	e numbers.

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	88		
Noisiest Hour of	speed (mph)	35		
Activity During	trains/hour	20		
Sensitive Hours	cars/train	2		
		55		
		6		
		2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

intervening Rows of of Buildings	number of rows
SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS		
Noise Source	Leq - 1-hr (dB)	
All Sources	54	
Source 1	54	
Source 2	0	
Source 3	0	
Source 4	0	
Source 5	0	
Source 6	0	
Source 7	0	
Source 8	0	

Enter data for up to 8 noise	sources below - see reference	e list for source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2	S	Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	120				
Noisiest Hour of	speed (mph)	35				
Activity During	trains/hour	20				
Sensitive Hours	cars/train	2				
		55				
		6	Ī			
		2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Bethesda Temple Apostolic Church

RESULTS	RESULTS					
Noise Source	Leq - 1-hr (dB)					
All Sources	56					
Source 1	56					
Source 2	0					
Source 3	0					
Source 4	0					
Source 5	0					
Source 6	0					
Source 7	0					
Source 8	0					

Enter data for up to 8 noise sources below - see re	eference list for source numbers.

IOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	80			
Noisiest Hour of	speed (mph)	35			
Activity During	trains/hour	20		111	
Sensitive Hours	cars/train	2			
		55			
		6			
		2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n		100	
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n		111	
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Leq - 1-hr (dB)				
All Sources	56				
Source 1	56				
Source 2	0				
Source 3	0				
Source 4	0				
Source 5	0				
Source 6	0				
Source 7	0				
Source 8	0				

Enter data for up to 8 noise sources below - see reference list for source numbers.

Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	80			
Noisiest Hour of	speed (mph)	35			
Activity During	trains/hour	20			
Sensitive Hours	cars/train	2			
		55			
		6	Ī		
		2	I		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Administration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH Inc. Case: 4807 4809 4800 ABOR AREA COLORS

RESULTS						
Noise Source	Leq - nighttime (dB)					
All Sources	60	54	53			
Source 1	60	54	53			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

NOISE SOURCE PARAMETERS							
Parameter	Source 1		Source 2		Source 3		
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	110					
Daytime Hours	speed (mph)	35					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6	Ī				
i -	cars/train	2	Ī				
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					

Intervening Rows of of Buildings	number of rows		
SOURCE REFERENCE LIST			
Source	Number		
Commuter Electric Locomotive	1		
Commuter Diesel Locomotive	2		
Commuter Rail Cars	3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	7		
Maglev	8		
Freight Locomotive	9		
Freight Cars	10		
Hopper Cars (empty)	11		
Hopper Cars (full)	12		
Crossover	13		
Automobiles	14		
City Buses	15		
Commuter Buses	16		
Rail Yard or Shop	17		
Layover Tracks	18		
Bus Storage Yard	19		
Bus Op. Facility	20		
Bus Transit Center	21		
Parking Garage	22		
Park & Ride Lot	23		

RESULTS						
Noise Source	Ldn (dB) Leq - daytime (dB) Leq - nigh					
All Sources	61	56	55			
Source 1	61	56	55			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT		COURSE E	Godiec o
		4		
Distance (source to receiver)	distance (ft)	82		
Daytime Hours	speed (mph)	35		
(7 AM - 10 PM)	trains/hour	20		
	cars/train	2		
Nighttime Hours	speed (mph)	55	::::::::	
(10 PM - 7 AM)	trains/hour	6		
	cars/train	2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	60	54	53
Source 1	60	54	53
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter data for u	p to 8 noise sources	below - see reference	e list for source numbers

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	106			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6	Ī		
	cars/train	2	Ī		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n		· · · · · · · · · · · · · · · · · · ·	
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	62	57	55
Source 1	62	57	55
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	77			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	59	54	53
Source 1	59	54	53
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	115			
	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6	Ī		
	cars/train	2	Ī		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	58	52	51		
Source 1	58	52	51		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter data for up to 8 noise sources below - see reference list for source numbers

NOISE SOURCE PARAMETERS									
Parameter	Source 1		Source 2		Source 3				
Source Num.	RRT/LRT	4							
Distance (source to receiver)	distance (ft)	144							
Daytime Hours	speed (mph)	35							
(7 AM - 10 PM)	trains/hour	20							
	cars/train	2							
Nighttime Hours	speed (mph)	55							
(10 PM - 7 AM)	trains/hour	6							
	cars/train	2							
Wheel Flats?	% of cars w/ wheel flats	0.00%							
Jointed Track?	Y/N	n							
Embedded Track?	Y/N	n							
Aerial Structure?	Y/N	n							
Barrier Present?	Y/N	n							
Intervening Rows of of Buildings	number of rows	0							

SOURCE REFERENCE LIST			
Source	Number		
Commuter Electric Locomotive	1		
Commuter Diesel Locomotive	2		
Commuter Rail Cars	3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	7		
Maglev	8		
Freight Locomotive	9		
Freight Cars	10		
Hopper Cars (empty)	11		
Hopper Cars (full)	12		
Crossover	13		
Automobiles	14		
City Buses	15		
Commuter Buses	16		
Rail Yard or Shop	17		
Layover Tracks	18		
Bus Storage Yard	19		
Bus Op. Facility	20		
Bus Transit Center	21		
Parking Garage	22		
Park & Ride Lot	23		

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	61	56	54		
Source 1	61	56	54		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2	Source 3		
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	88				
Daytime Hours	speed (mph)	35				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	55				
(10 PM - 7 AM)	trains/hour	6				
	cars/train	2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

4924, 4928 Crenshaw

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	59	54	53		
Source 1	59	54	53		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter data for u	p to 8 noise sources	below - see reference	e list for source numbers

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	112			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n		· · · · · · · · · · · · · · · · · · ·	
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	62	57	56		
Source 1	62	57	56		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	Λ		

Enter data for up t	o 8 noise sources below	v - see reference list	for source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	72				
Daytime Hours	speed (mph)	35				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	55				
(10 PM - 7 AM)	trains/hour	6	Ī			
	cars/train	2	Ī			
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	62	56	55		
Source 1	62	56	55		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter data for u	n to 8 noise source	es below - see	reference list for	source numbers.

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	80		
Daytime Hours	speed (mph)	35		
(7 AM - 10 PM)	trains/hour	20		
	cars/train	2		
Nighttime Hours	speed (mph)	55		
(10 PM - 7 AM)	trains/hour	6		
	cars/train	2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n	111111	
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

5001 Crenshaw

RESULTS							
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)				
All Sources	59	54	52				
Source 1	59	54	52				
Source 2	0	0	0				
Source 3	0	0	0				
Source 4	0	0	0				
Source 5	0	0	0				
Source 6	0	0	0				
Source 7	0	0	0				
Source 8	0	0	0				

Enter data for up to 8 noise	sources below - s	ee reference list for	source numbers

NOISE SOURCE PARAMETERS							
Parameter	Source 1		Source 2		Source 3		
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	120					
Daytime Hours	speed (mph)	35					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6					
	cars/train	2					
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

5009, 5017 Crenshaw

RESULTS						
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)			
All Sources	59	53	52			
Source 1	59	53	52			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

Enter data for up to 8 noise sources below - see reference list for source n	umbore

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	128				
Daytime Hours	speed (mph)	35				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	55				
(10 PM - 7 AM)	trains/hour	6	Ī			
	cars/train	2	Ī			
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	Number
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS						
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)			
All Sources	58	53	52			
Source 1	58	53	52			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS							
Parameter	Source 1 S		Source 2		Source 3		
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	135					
Daytime Hours	speed (mph)	35					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6					
	cars/train	2					
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS							
Noise Source Ldn (dB) Leq - daytime (dB) Leq - nighttime (dB)							
All Sources	58	53	52				
Source 1	58	53	52				
Source 2	0	0	0				
Source 3	0	0	0				
Source 4	0	0	0				
Source 5	0	0	0				
Source 6	0	0	0				
Source 7	0	0	0				
Source 8	0	0	0				

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS							
Parameter	Source 1 S		Source 2		Source 3		
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	136					
Daytime Hours	speed (mph)	35					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6					
	cars/train	2					
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS							
Noise Source Ldn (dB) Leq - daytime (dB) Leq - nighttime (dB)							
All Sources	61	56	54				
Source 1	61	56	54				
Source 2	0	0	0				
Source 3	0	0	0				
Source 4	0	0	0				
Source 5	0	0	0				
Source 6	0	0	0				
Source 7	0	0	0				
Source 8	0	0	0				

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS							
Parameter	Source 1 Se		Source 2	Source 3			
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	88					
Daytime Hours	speed (mph)	35					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6					
	cars/train	2					
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

SOURCE REFERENCE LIST						
Source	Number					
Commuter Electric Locomotive	1					
Commuter Diesel Locomotive	2					
Commuter Rail Cars	3					
RRT/LRT	4					
AGT, Steel Wheel	5					
AGT, Rubber Tire	6					
Monorail	7					
Maglev	8					
Freight Locomotive	9					
Freight Cars	10					
Hopper Cars (empty)	11					
Hopper Cars (full)	12					
Crossover	13					
Automobiles	14					
City Buses	15					
Commuter Buses	16					
Rail Yard or Shop	17					
Layover Tracks	18					
Bus Storage Yard	19					
Bus Op. Facility	20					
Bus Transit Center	21					
Parking Garage	22					
Park & Ride Lot	23					

RESULTS							
Noise Source Ldn (dB) Leq - daytime (dB) Leq - nighttime							
All Sources	63	58	56				
Source 1	63	58	56				
Source 2	0	0	0				
Source 3	0	0	0				
Source 4	0	0	0				
Source 5	0	0	0				
Source 6	0	0	0				
Source 7	0	0	0				
Source 8	0	0	0				

Enter data for up to 8 noise sources below - see reference list for source numbers.
NOISE COLIDCE DADAMETERS

NOISE SOURCE PARAMETERS							
Parameter	Source 1 Sc		Source 2		Source 3		
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	64					
Daytime Hours	speed (mph)	35					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6					
	cars/train	2					
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS				
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)	
All Sources	62	57	56	
Source 1	62	57	56	
Source 2	0	0	0	
Source 3	0	0	0	
Source 4	0	0	0	
Source 5	0	0	0	
Source 6	0	0	0	
Source 7	0	0	0	
Source 8	0	0	0	

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	72		
Daytime Hours	speed (mph)	35		
(7 AM - 10 PM)	trains/hour	20		
	cars/train	2		
Nighttime Hours	speed (mph)	55		
(10 PM - 7 AM)	trains/hour	6		
	cars/train	2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

Source	Number
Commuter Electric Locomotive	Nulliber
Commuter Diesel Locomotive	2
Commuter Diesei Locomotive Commuter Rail Cars	3
RRT/I RT	3
AGT. Steel Wheel	5
	-
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS				
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)	
All Sources	63	58	56	
Source 1	63	58	56	
Source 2	0	0	0	
Source 3	0	0	0	
Source 4	0	0	0	
Source 5	0	0	0	
Source 6	0	0	0	
Source 7	0	0	0	
Source 8	0	0	0	

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	64			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20	100000		
	cars/train	2	1111111		
Nighttime Hours	speed (mph)	55	100000		
(10 PM - 7 AM)	trains/hour	6	1		
	cars/train	2	1		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n	1000000		
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST Source	Number
Commuter Electric Locomotive	Number
Commuter Diesel Locomotive	
Commuter Diesei Locomotive Commuter Rail Cars	2 3
RRT/I RT	3 4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Leq - 1-hr (dB)		
All Sources	51		
Source 1	51		
Source 2	0		
Source 3	0		
Source 4	0		
Source 5	0		
Source 6	0		
Source 7	0		
Source 8	0		

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	160		
Noisiest Hour of	speed (mph)	55		
Activity During	trains/hour	20		
Sensitive Hours	cars/train	2		
		55		::::::::::
		6		
		2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	у		
Intervening Rows of of Buildings	number of rows	0		

Source	Number
Commuter Electric Locomotive	Nulliber
Commuter Diesel Locomotive	2
Commuter Biesel Edcorrolive	3
RRT/I RT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (empty)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS				
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)	
All Sources	63	61	56	
Source 1	63	61	56	
Source 2	0	0	0	
Source 3	0	0	0	
Source 4	0	0	0	
Source 5	0	0	0	
Source 6	0	0	0	
Source 7	0	0	0	
Source 8	0	0	0	

Enter data for u	p to 8 noise sources	below - see reference	e list for source numbers

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	72			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n		· · · · · · · · · · · · · · · · · · ·	
Intervening Rows of of Buildings	number of rows	0			

Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Leq - 1-hr (dB)		
All Sources	48		
Source 1	48		
Source 2	0		
Source 3	0		
Source 4	0		
Source 5	0		
Source 6	0		
Source 7	0		
Source 8	0		

Enter data for up to 8 noise	sources below - see reference	e list for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	520			
Noisiest Hour of	speed (mph)	55			
Activity During	trains/hour	20			
Sensitive Hours	cars/train	2			
		55			
		6			
		2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Leq - 1-hr (dB)		
All Sources	57		
Source 1	57		
Source 2	0		
Source 3	0		
Source 4	0		
Source 5	0		
Source 6	0		
Source 7	0		
Source 8	0		

Enter data for up to 8 noise	sources below - see reference	e list for source numbers.

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	72		
Noisiest Hour of	speed (mph)	35		
Activity During	trains/hour	20		
Sensitive Hours	cars/train	2		
		35		
		6		
		2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Leq - 1-hr (dB)		
All Sources	54		
Source 1	54		
Source 2	0		
Source 3	0		
Source 4	0		
Source 5	0		
Source 6	0		
Source 7	0		
Source 8	0		

Enter data for up to 8 nois	se sources below - see refe	rence list for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	200			
Noisiest Hour of	speed (mph)	55			
Activity During	trains/hour	20			
Sensitive Hours	cars/train	2			
		55			
		6			
		2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Biesel Eccomotive	3
RRT/I RT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	54	52	46		
Source 1	54	52	46		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter data for up to 8 nois	se sources below - see refe	rence list for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	120			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2	1000		
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	2			

intervening Rows or or buildings	Hulliber of Iows
SOURCE REFERENCE LIST	
Source Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS						
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)			
All Sources	60	58	52			
Source 1	60	58	52			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

Enter data for up t	o 8 noise sources below	v - see reference list	for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	120			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6	Ī		
	cars/train	2	Ī		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n		· · · · · · · · · · · · · · · · · · ·	
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	57	54	49		
Source 1	57	54	49		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Entor data for up to	8 noise sources below	- ean rafarance liet fo	r cource numbers

NOISE SOURCE PARAMETERS	VOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	192			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST Source	Number
	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	57	54	49
Source 1	57	54	49
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	200		
Daytime Hours	speed (mph)	55		
(7 AM - 10 PM)	trains/hour	20		
	cars/train	2		
Nighttime Hours	speed (mph)	55		1111111111
(10 PM - 7 AM)	trains/hour	6		
	cars/train	2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

700, 708 E Florence

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	57	55	50
Source 1	57	55	50
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter data for up to 8 noise	sources below - see refe	erence list for source numbers

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	184			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	49	47	41
Source 1	49	47	41
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	260			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	2			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

608, 618 E Florence

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	57	54	49		
Source 1	57	54	49		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS							
Parameter	Source 1		Source 2		Source 3	Source 3	
Source Num.	RRT/LRT	4					
Distance (source to receiver)	distance (ft)	200					
Daytime Hours	speed (mph)	55					
(7 AM - 10 PM)	trains/hour	20					
	cars/train	2					
Nighttime Hours	speed (mph)	55					
(10 PM - 7 AM)	trains/hour	6	Ī				
•	cars/train	2	Ī				
Wheel Flats?	% of cars w/ wheel flats	0.00%					
Jointed Track?	Y/N	n					
Embedded Track?	Y/N	n					
Aerial Structure?	Y/N	n					
Barrier Present?	Y/N	n					
Intervening Rows of of Buildings	number of rows	0					

Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS						
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)			
All Sources	56	54	48			
Source 1	56	54	48			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

Enter data for u	p to 8 noise sources	below - see reference	e list for source numbers

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	220				
Daytime Hours	speed (mph)	55				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	55				
(10 PM - 7 AM)	trains/hour	6				
	cars/train	2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

600 E Florence

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	57	54	49		
Source 1	57	54	49		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter data for up to	8 noise sources below	- ean rafarance liet fo	r cource numbers

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	192				
Daytime Hours	speed (mph)	55				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	55				
(10 PM - 7 AM)	trains/hour	6	Ī			
	cars/train	2	Ī			
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	Number
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS						
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)			
All Sources	64	62	56			
Source 1	64	62	56			
Source 2	0	0	0			
Source 3	0	0	0			
Source 4	0	0	0			
Source 5	0	0	0			
Source 6	0	0	0			
Source 7	0	0	0			
Source 8	0	0	0			

Enter data for up to	8 noise sources below	- ean rafarance liet fo	r cource numbers

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	64				
	speed (mph)	55				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	55				
(10 PM - 7 AM)	trains/hour	6	Ī			
	cars/train	2	Ī			
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

Source	Number
Commuter Electric Locomotive	Nulliber
Commuter Diesel Locomotive	2
Commuter Biesel Eccomotive	3
RRT/I RT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (empty)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	54	52	46		
Source 1	54	52	46		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

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NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	150				
Daytime Hours	speed (mph)	35				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	35				
(10 PM - 7 AM)	trains/hour	6		::::::		
	cars/train	2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	у				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	1				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

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RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	56	54	48		
Source 1	56	54	48		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter data for up t	o 8 noise sources below	v - see reference list	for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	120			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	35			
(10 PM - 7 AM)	trains/hour	6	Ī		
	cars/train	2	Ī		
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n		· · · · · · · · · · · · · · · · · · ·	
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	52	49	44		
Source 1	52	49	44		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	240		
Daytime Hours	speed (mph)	35		
(7 AM - 10 PM)	trains/hour	20		
	cars/train	2		
Nighttime Hours	speed (mph)	35		
(10 PM - 7 AM)	trains/hour	6		
	cars/train	2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

intervening Rows of of Buildings	number or rows
SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	60	57	52
Source 1	60	57	52
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

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NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	123			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	35			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	у			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Biesel Eccomotive	3
RRT/I RT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	60	57	52
Source 1	60	57	52
Source 2	0	0	0
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter data for up to 8 noise	sources below - see reference	e list for source numbers.

NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	123			
Daytime Hours	speed (mph)	35			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	35			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	у			
Barrier Present?	Y/N	n		111111	
Intervening Rows of of Buildings	number of rows	0			

Source	Number
Commuter Electric Locomotive	Nulliber
Commuter Diesel Locomotive	2
Commuter Diesei Locomotive Commuter Rail Cars	3
RRT/I RT	3
AGT. Steel Wheel	5
	-
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS		
Noise Source	Leq - 1-hr (dB)	
All Sources	60	
Source 1	60	
Source 2	0	
Source 3	0	
Source 4	0	
Source 5	0	
Source 6	0	
Source 7	0	
Source 8	0	·

	Enter data for up to 8 noise sources be	elow - see reference list for source numbers
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NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	83			
Noisiest Hour of	speed (mph)	55			
Activity During	trains/hour	20			
Sensitive Hours	cars/train	2			
		55			
		6			
		2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

intervening Rows or or buildings	Hulliber of Iows
SOURCE REFERENCE LIST	
Source Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS				
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)	
All Sources	63	61	55	
Source 1	63	61	55	
Source 2	0	0	0	
Source 3	0	0	0	
Source 4	0	0	0	
Source 5	0	0	0	
Source 6	0	0	0	
Source 7	0	0	0	
Courses 0	0	0	0	

Enter data for up to 8 noise sources below - see reference list for source numbers.
Enter data for up to a noise sources below - see reference list for source numbers.

OISE SOURCE PARAMETERS					
Parameter	Source 1 S		Source 2	Source 3	
Source Num.	RRT/LRT	4			
Distance (source to receiver)	distance (ft)	74			
Daytime Hours	speed (mph)	55			
(7 AM - 10 PM)	trains/hour	20			
	cars/train	2			
Nighttime Hours	speed (mph)	55			
(10 PM - 7 AM)	trains/hour	6			
	cars/train	2			
Wheel Flats?	% of cars w/ wheel flats	0.00%			
Jointed Track?	Y/N	n			
Embedded Track?	Y/N	n			
Aerial Structure?	Y/N	n			
Barrier Present?	Y/N	n			
Intervening Rows of of Buildings	number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Crimson Technical College

RESULTS				
Noise Source	Leq - 1-hr (dB)			
All Sources	58			
Source 1	58			
Source 2	0			
Source 3	0			
Source 4	0			
Source 5	0			
Source 6	0			
Source 7	0			
Source 8	0			

Enter data for up to 8 noise sources below - see reference list for source numbers.

Parameter	Source 1		Source 2	Source 3
Source Num.	RRT/LRT	4		
Distance (source to receiver)	distance (ft)	60		
Noisiest Hour of	speed (mph)	35		
Activity During	trains/hour	20		
Sensitive Hours	cars/train	2		
		35		111111111111111111111111111111111111111
		6		
		2		
Wheel Flats?	% of cars w/ wheel flats	0.00%		
Jointed Track?	Y/N	n		
Embedded Track?	Y/N	n		
Aerial Structure?	Y/N	n		
Barrier Present?	Y/N	n		
Intervening Rows of of Buildings	number of rows	0		

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

RESULTS				
Noise Source	Leq - 1-hr (dB)			
All Sources	47			
Source 1	47			
Source 2	0			
Source 3	0			
Source 4	0			
Source 5	0			
Source 6	0			
Source 7	0			
Source 8	0		·	

Enter data for u	p to 8 noise sources	below - see referer	nce list for source r	numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	335				
Noisiest Hour of	speed (mph)	35				
Activity During	trains/hour	20				
Sensitive Hours	cars/train	2				
		35				
		6				
		2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

intervening Nows or or buildings Indiliber or lows					
SOURCE REFERENCE LIST					
Source Source	Number				
Commuter Electric Locomotive	1				
Commuter Diesel Locomotive	2				
Commuter Rail Cars	3				
RRT/LRT	4				
AGT, Steel Wheel	5				
AGT, Rubber Tire	6				
Monorail	7				
Maglev	8				
Freight Locomotive	9				
Freight Cars	10				
Hopper Cars (empty)	11				
Hopper Cars (full)	12				
Crossover	13				
Automobiles	14				
City Buses	15				
Commuter Buses	16				
Rail Yard or Shop	17				
Layover Tracks	18				
Bus Storage Yard	19				
Bus Op. Facility	20				
Bus Transit Center	21				
Parking Garage	22				
Park & Ride Lot	23				

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH Inc. Case:

RESULTS				
Noise Source	Leq - 1-hr (dB)			
All Sources	59			
Source 1	59			
Source 2	0			
Source 3	0			
Source 4	0			
Source 5	0			
Source 6	0			
Source 7	0			
Source 8	0			

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	52				
Noisiest Hour of	speed (mph)	35				
Activity During	trains/hour	20				
Sensitive Hours	cars/train	2				
		35				
		6				
		2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH Inc. Case:

RESULTS					
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)		
All Sources	55	53	48		
Source 1	55	53	48		
Source 2	0	0	0		
Source 3	0	0	0		
Source 4	0	0	0		
Source 5	0	0	0		
Source 6	0	0	0		
Source 7	0	0	0		
Source 8	0	0	0		

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	136				
Daytime Hours	speed (mph)	35				
(7 AM - 10 PM)	trains/hour	20				
	cars/train	2				
Nighttime Hours	speed (mph)	35				
(10 PM - 7 AM)	trains/hour	6	Ī			
	cars/train	2	Ī			
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH inc. Case:

RESULTS				
Noise Source	Leq - 1-hr (dB)			
All Sources	56			
Source 1	56			
Source 2	0			
Source 3	0			
Source 4	0			
Source 5	0			
Source 6	0			
Source 7	0			
Source 8	0		·	

Enter data for u	o to 8 noise sources below - s	ee reference list for	source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	88				
Noisiest Hour of	speed (mph)	35				
	trains/hour	20				
Sensitive Hours	cars/train	2				
		35				
		6				
		2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH Inc.
Case:

RESULTS				
Noise Source	Leq - 1-hr (dB)			
All Sources	52			
Source 1	52			
Source 2	0			
Source 3	0			
Source 4	0			
Source 5	0			
Source 6	0			
Source 7	0			
Source 8	0			

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	RRT/LRT	4				
Distance (source to receiver)	distance (ft)	290				
Noisiest Hour of	speed (mph)	55				
	trains/hour	20				
Sensitive Hours	cars/train	2				
		55				
		6				
		2				
Wheel Flats?	% of cars w/ wheel flats	0.00%				
Jointed Track?	Y/N	n				
Embedded Track?	Y/N	n				
Aerial Structure?	Y/N	n				
Barrier Present?	Y/N	n				
Intervening Rows of of Buildings	number of rows	0				

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Appendix B
Stationary Sources

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH Inc. Case: Parking - Exposition

Parking - Exposition

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	52.3	50	45
Source 1	0	0	0
Source 2	52.3	50	45
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter data for up to 8 noise sources below - see referen	aco liet for equired numbers

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	0		Park & Ride Lot	23		
Distance (source to receiver)			distance (ft)	200		
Daytime Hours			autos/hour	200		
(7 AM - 10 PM)			buses/hour	18		
Nighttime Hours			autos/hour	50		
(10 PM - 7 AM)			buses/hour	6		
Wheel Flats?						
Jointed Track?						
Embedded Track?						
Aerial Structure?						
Barrier Present?			Y/N	N		
Intervening Rows of of Buildings			number of rows	0		

Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH inc.
Case:

Parking - La Brea Residential

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	53.7	51	46
Source 1	0	0	0
Source 2	53.7	51	46
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter data for up to 8 noise	sources below - see refe	erence list for source numbers

NOISE SOURCE PARAMETERS				
Parameter	Source 1	Source 2		Source 3
Source Num.	0	Park & Ride Lot	23	
Distance (source to receiver)		distance (ft)	175	
Daytime Hours		autos/hour	187	
(7 AM - 10 PM)		buses/hour	18	
Nighttime Hours		autos/hour	47	
(10 PM - 7 AM)		buses/hour	6	
Wheel Flats?				
Jointed Track?				
Embedded Track?				
Aerial Structure?				
Barrier Present?		Y/N	N	
Intervening Rows of of Buildings		number of rows	0	

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH inc.
Case:

Parking - La Brea Church

RESULTS		
Noise Source	Leq - 1-hr (dB)	
All Sources	51.1	
Source 1	0	
Source 2	51.1	
Source 3	0	
Source 4	0	
Source 5	0	
Source 6	0	
Source 7	0	
Source 8	0	

Enter data for up to 8 noise sources below - see reference list for source numb	ers
---	-----

NOISE SOURCE PARAMETERS				
Parameter	Source 1	Source 2		Source 3
Source Num.	0	Park & Ride Lot	23	
Distance (source to receiver)		distance (ft)	175	
Noisiest Hour of		autos/hour	187	
Activity During		buses/hour	18	
Sensitive Hours				
Wheel Flats?				
Jointed Track?				
Embedded Track?				
Aerial Structure?				
Barrier Present?		Y/N	N	
Intervening Rows of of Buildings		number of rows	0	

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Noise Model Based on Federal Transit Administration General Transit Noise Assessmen Developed for Chicago Create Projec Copyright 2006, HMMH Inc.
Case: Parking Lts Case Observed

Parking - La Brea Church

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	55.6	53	48
Source 1	0	0	0
Source 2	55.6	53	48
Source 3	0	0	0
Source 4	0	0	0
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Indise receiver land use category (1, 2 or 3)
Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1	Source 2		Source 3		
Source Num.	0	Park & Ride Lot	23			
Distance (source to receiver)		distance (ft)	125			
Daytime Hours		autos/hour	128			
(7 AM - 10 PM)		buses/hour	12			
Nighttime Hours		autos/hour	32			
(10 PM - 7 AM)		buses/hour	4			
Wheel Flats?						
Jointed Track?						
Embedded Track?						
Aerial Structure?						
Barrier Present?		Y/N	N			
Intervening Rows of of Buildings		number of rows	0			

SOURCE REFERENCE LIST	
Source	Number
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Source 4	Source 5	Source 6	Source 7	Source 8

CALCULATIONS Term	Sou 1	Sou 2	Sou 3	Sou 4	Sou 5	Sou 6	Sou 7	Sou 8
SELref	0.0	101.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Coef	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Denom	0.0	2000.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Day Num	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
C1 - Night Num	0.00	32.00	0.00	0.00	0.00	0.00	0.00	0.00
C1 - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Coef	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Denom	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Day Num	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00
C2 - Night Num	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00
C2 - Day	0.0	-2.5	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Night	0.0	-7.4	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Coef	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Denom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Day Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3 - Night Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3 - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leq50ft - Day	0.0	62.9	0.0	0.0	0.0	0.0	0.0	0.0
Leq50ft - Night	0.0	58.0	0.0	0.0	0.0	0.0	0.0	0.0
Ldn50ft	6.4	65.6	6.4	6.4	6.4	6.4	6.4	6.4
Dist Coef	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0
Adj. Dist Adi. Wheel Flats	0.0	-9.9 0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adj. Wrieer Flats Adi. Jointed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
								0
Adj. Embed	0	0	0	0	0	0	0	0
Adj. Aerial	0	0	0	0	0	0	0	0
Adj. Shield	0	0	0	0	0	0	0	0
Leq - Day	0.0	53.0	0.0	0.0	0.0	0.0	0.0	0.0
Leq - Night	0.0	48.1	0.0	0.0	0.0	0.0	0.0	0.0
Ldn Need Land Use	0.0	55.6	0.0	0.0	0.0	0.0	0.0	0.0
Calc Leq	0							

Rec Leq-Day #NAME? Rec Leq-Night Rec LDN

Adj. Dist

	CE DATA			Term 1				Term 2				Term 3								Combine
Num	Desc	Ref SEL	Dist Term	Desc	Denom	Min	Coef	Desc	Denom	Min	Coef	Desc	Denom	Min	Coef	Jointed	Embedded	Aerial	Barrier	1&2?
0		0	0		0	0	0													
1	Commuter Electric Locomotive	90	15	speed (mph)	50	20	10.0	trains/hour	1	0.01	10.0	locos/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
2	Commuter Diesel Locomotive	92	15	speed (mph)	50	20	-10.0	trains/hour	1	0.01	10.0	locos/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
3	Commuter Rail Cars	82	15	speed (mph)	50	20	20.0	trains/hour	1	0.01	10.0	cars/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
4	RRT/LRT	82	15	speed (mph)	50	20	20.0	trains/hour	1	0.01	10.0	cars/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
5	AGT, Steel Wheel	80	15	speed (mph)	50	20	20.0	trains/hour	1	0.01	10.0	cars/train	1	1	10				-5.0	0.0
6	AGT, Rubber Tire	78	15	speed (mph)	50	20	20.0	trains/hour	1	0.01	10.0	cars/train	1	1	10				-5.0	0.0
7	Monorail	82	15	speed (mph)	50	20	20.0	trains/hour	1	0.01	10.0	cars/train	1	1	10				-5.0	0.0
8	Maglev	72	15	speed (mph)	50	20	20.0	trains/hour	1	0.01	10.0	cars/train	1	1	10			4.0	-5.0	0.0
9	Freight Locomotive	97	15	speed (mph)	40	20	10.0	trains/hour	1	0.01	10.0	locos/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
10	Freight Cars	100	15	speed (mph)	40	20	20.0	trains/hour	1	0.01	10.0	h of cars (ft)	2000	40	10	5.0	3.0	4.0	-5.0	0.0
11	Hopper Cars (empty)	104	15	speed (mph)	40	20	20.0	trains/hour	1	0.01	10.0	h of cars (ft)	2000	40	10	5.0	3.0	4.0	-5.0	0.0
12	Hopper Cars (full)	100	15	speed (mph)	40	20	20.0	trains/hour	1	0.01	10.0	h of cars (ft)	2000	40	10	5.0	3.0	4.0	-5.0	0.0
13	Crossover	100	25	trains/hour	1	0.01	10.0	on of one trai	3600	0.01	10.0						3.0	4.0	-5.0	0.0
14	Automobiles	73	15	speed (mph)	50	30	28.1	vehicles/hou	1	0.01	10.0								-5.0	0.0
15	City Buses	84	15	speed (mph)	50	30	23.9	vehicles/hou	1	0.01	10.0								-5.0	0.0
16	Orange Line Bus	83	15	speed (mph)	40	30	14.6	vehicles/hou	1	0.01	10.0								-5.0	0.0
17	Rail Yard or Shop	118	25	trains/hour	20	0.01	10.0												-5.0	0.0
18	Layover Tracks	109	25	trains/hour	1	0.01	10.0												-5.0	0.0
19	Bus Storage Yard	111	25	buses/hour	100	0.01	10.0												-5.0	0.0
20	Bus Op. Facility	114	25	buses/hour	200	0.01	10.0	es serviced/l	60	0.01	10.0								-5.0	1.0
21	Bus Transit Center	101	25	buses/hour	20	0.01	10.0												-5.0	0.0
22	Parking Garage	92	25	autos/hour	1000	0.01	10.0												-5.0	0.0
23	Park & Ride Lot	101	25	autos/hour	2000	0.01	10.0	buses/hour	24	0.01	10.0								-5.0	1.0

	ND HOT DATA					
LAND USE DATA						
Category	Ldn/Leq					
0						
1	Leq					
2	Ldn					
3	Lea					

Warning Signal Noise

Location	Distance to Receptor	Receptor	Existing Noise Level	Metric	Impact Threshold	Unmitigated Warning Signal Noise	Mitigated Warning Signal Noise
48th	56	Residence	72	Ldn	66	64.3	58.3
52nd	180	Residence	72	Ldn	66	54.2	48.2
54th	96	Mosque	64	Leq	61	59.6	53.6
57th	36	View Park	68	Leq	63	68.1	62.1
Slauson	128	View Park	68	Leq	63	57.1	51.1
Brynhurst	120	Residence	69	Ldn	64	57.7	51.7
West	36	Residence	69	Ldn	64	68.1	62.1
Centinela	72	Healthcare	69	Ldn	64	62.1	56.1
lvy	350	Church	68	Leq	63	48.4	42.4
Eucalyptus	408	Residence	68	Ldn	63	47.1	41.1
Cedar	430	Residence	68	Ldn	63	46.6	40.6
Oak	120	Residence	68	Ldn	63	57.7	51.7
Hindry							
Arbor Vitae	682	School	66	Leq	62	42.6	36.6

Reference Noise Level 109 85 103 Reference Distance 50 100 50

Leq day = SELref + 10log(Ed/3600) - 36.6Leq night = SELref + 10log(En/3600) - 36.6

Ed = average daytime hourly duration En = average nighttime hourly duration

 $Ldn = 10log((15)10^{Leq(day)/10} + (9)10^{Leq(night)+10)/10) - 13.8$

	Unmit	N	∕lit	
Reference Noise Level		109	85	dBA
Reference Distance		50	100	feet
Bell duration		20	20	seconds
Day Trains		20	20	hour
Night Trains		6	6	hour

 Leq Day
 62.9
 56.9

 Leq Night
 57.6
 51.6

TPPS Noise

	Distance to		Existing		Impact	Unmitigated
Location	Receptor	Receptor	Noise Level	Metric	Threshold	Noise
Florence and Redondo	200	Residence	69	Ldn	64	44.4
Crenshaw and 60th	Adjacent	Residence	77	Ldn	66	56.4
Crenshaw and 48th	Adjacent	Residence	72	Ldn	66	56.4

Reference Noise Level 50 85 44 Reference Distance 50 100 50

 $Ldn = 10log((15)10^{Leq(day)/10} + (9)10^{Leq(night)+10)/10) - 13.8$

Leq Day 50.0 Leq Night 50.0

Ventilation Shaft Noise

Location	Distance to Receptor	Receptor	Existing Noise Level	Metric	Impact Threshold	Unmitigated Noise
Crenshaw and 67th	75	Residence	77	Ldn	66	51.5
Crenshaw and 60th	Adjacent	Residence	77	Ldn	66	59.2
Crenshaw and Vernon	175	Mortuary	71	Leq	66	49.1

	Leq	Ldn
Reference Noise Level	60	55
Reference Distance	50	50

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Preliminary Geotechnical Report (Subtask 6.2.3)

Crenshaw/LAX Transit Corridor Project Advanced Conceptual Engineering Contract E0117

Prepared for: LA County Metropolitan Transportation Authority One Gateway Plaza Los Angeles, CA 90012-2952

Prepared by: Hatch Mott MacDonald 6151 West Century Boulevard, Suite 800 Los Angeles, CA 90045



October 2010

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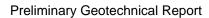
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1 EXECUTIVE SUMMARY

The Los Angeles County Metropolitan Transportation Authority (Metro) is planning transit improvements in the Crenshaw/LAX Transit Corridor to accommodate demand for travel in north-south and east-west directions. These improvements will provide more direct service between downtown Los Angeles and Los Angeles International Airport (LAX), and important connections between the Crenshaw corridor and downtown Los Angeles, the Westside, and the South Bay.

As part of the advanced conceptual engineering design, Metro has requested that Hatch Mott MacDonald prepare a preliminary geotechnical report. As a subconsultant to Hatch Mott MacDonald, Earth Mechanics, Inc. (EMI) assists the design team in geotechnical engineering related aspects in this advanced conceptual engineering design phase.

Based on our knowledge of the geotechnical conditions along the project alignment and our understanding of the project requirements, it was originally planned to conduct field exploration program consisting of drilling thirty three (33) borings along the proposed structure alignments, including one boring at each elevated station, to a depth of about 100 feet and eleven (11) borings to a depth of 30 feet for at-grade tracks and stations. Four (4) of the borings to a depth of 30 feet were originally planned at the potential maintenance facility sites. One of the potential sites (Site 11) was no longer considered by the project team, which resulted in the elimination of two (2) 30foot borings. Four (4) downhole P-S loggings to measure shear wave velocities of the upper 100 feet of soil, four (4) Packer testing to estimate groundwater extraction rates, and ten (10) pressuremeter tests to determine stress-strain relationship of subsurface soils were performed during our field exploration. Where groundwater was encountered, up to four (4) borings were converted to monitoring wells. In addition, thirteen (13) Cone Penetration Tests (CPTs) were to be performed to obtain continuous profile of subsurface soils. Besides geotechnical sampling, environmental sampling of soil and water were performed within fifteen (15) of the 100 feet deep borings and five (5) of the 30 feet deep borings, including one at each maintenance facility site. Results of the analytical testing were included in a separate Preliminary Hazardous Substance Identification Technical Memo to be submitted to Metro.

Based on the findings of the field exploration and data review, two active strands of the Newport-Inglewood Structure Zone cross the project alignment. One of the strands traverses the proposed site of an aerial structure near the intersection of La Brea Avenue and Florence Avenue. The southern and central portions of the alignment are underlain by Lakewood formation, while the northern portion of the alignment is underlain by younger age alluvium. Groundwater along the Aviation Boulevard/ Harbor Subdivision (Harbor S/D) segment is between approximately 40 to 63 feet below existing grade, between 95 to 135 feet along Florence Avenue. Although groundwater was observed at 51 to 97 feet below existing grade along Crenshaw Boulevard, a perched water condition occurs at much shallow depths between 38th Street and Exposition Boulevard. With a combination of high groundwater and weaker strength of some sandy soils within the younger alluvium, liquefaction is likely within the upper 15 to 25 feet of soil north of W. Vernon Avenue. The impact of these subsurface conditions on the tunnel design must be evaluated by the tunnel designers.

This report presents results of the subsurface explorations and laboratory testing conducted to date, our interpretation of the geologic and geotechnical conditions encountered, and preliminary recommendations for the design and construction of the project. Design response spectra for aerial structure and time history analysis for underground structures were developed for the dual





levels of ground motion outlined in the Metro Rail Design Criteria. Due to the seismicity along the project alignment, deep foundations are recommended for the aerial structures. Shallow foundations are feasible for lightly loaded surface structures and above grade retaining walls up to ten (10) feet in height in the southern and central portion of the project alignment. For belowgrade U-sections, retaining walls up to thirty (30) feet in height can be supported by shallow foundations. Soil along the project alignment is non-corrosive to concrete and metal, except near the northern project limit near Exposition Boulevard where corrosive protection is necessary for metal in direct contact with the on-site soil. Surface soil is considered moderately expansive due to the presence of clayey materials. For shallow foundations founded within the upper four (4) feet of any on-site clayey soils, remedial grading is necessary.





2 PROJECT BACKGROUND

The Los Angeles County Metropolitan Transportation Authority (Metro) is planning light rail transit (LRT) improvements in the Crenshaw/LAX Transit Corridor. Metro requires advanced conceptual engineering design services to determine the scope of the design, the extent of infrastructure required, appropriate construction methods, and probable project costs. The extent of environmental impacts and appropriate mitigation needed in this corridor in support of the final environmental documents will also be defined. Metro is serving as the lead agency for the California Environmental Quality Act (CEQA) environmental clearance, and the Federal Transit Administration (FTA) is serving as lead agency for the National Environmental Protection Act (NEPA) environmental clearance. The project will be conducted in accordance with the most recent FTA guidelines for project development and all environmental documentation prepared will satisfy the requirements of NEPA and CEQA.

This effort is a continuation of previous planning studies, including the Crenshaw-Prairie Corridor Major Investment Study, which was completed in 2003. Since then Metro has implemented several new Metro Rapid Bus routes within the corridor and now provides new options for travel in both north-south and east-west directions. With construction of the Exposition Phase I Line underway, the Crenshaw/LAX Corridor Transit project will provide important connections between the Crenshaw corridor and downtown Los Angeles, the Westside, and the South Bay. The corridor will also provide an important connection to Los Angeles International Airport (LAX) through an automated people mover (planned to be constructed by Los Angeles World Airports). Local transit service needs between and within the corridor cities of Los Angeles, Inglewood, Hawthorne, and El Segundo are also part of the developing transit alternatives.

Metro plans to fund LRT improvements in the corridor with Measure R Los Angeles County Sale Tax Funds and with other local and state sources.

2.1 Project Description

The proposed Crenshaw/LAX Transit Corridor Project is shown in *Figure 2-1 – Crenshaw/LAX Transit Corridor Alignment*. The proposed alignment extends approximately 8.5 miles from the Exposition LRT line at the intersection of Crenshaw and Exposition Boulevards to the Metro Green Line Aviation/LAX Station. The alignment comprises a double-tracked right-of-way consisting of sections of at-grade LRT, aerial structures and below-grade guideway.

The proposed LRT alignment's northern terminus is located at the proposed Crenshaw/Exposition Station, where the Crenshaw/LAX Corridor will provide a pedestrian at-grade link to the Exposition Line, currently under construction. From the Crenshaw/Exposition Station, the proposed LRT alignment extends south along Crenshaw Boulevard for 3.25 miles to the Harbor Subdivision (Harbor S/D) tracks. At this point, the alignment turns to the southwest and continues along the Harbor S/D for a distance of approximately 3.15 miles, to Aviation Boulevard. Thereafter, the alignment proceeds south along the west side of Aviation Boulevard for a distance of 2.15 miles to a connection to the Metro Green Line near the Green Line Aviation/LAX Station.





New stations are under consideration at the following locations: Crenshaw/Exposition, Crenshaw/Martin Luther King Jr., Crenshaw/Vernon (optional), Crenshaw/Slauson, Florence/West, Florence/La Brea, Aviation/Manchester (optional), and Aviation/Century.

The LRT alignment features crossings at a number of heavily trafficked roadways and highways, and is in proximity to the south runways of LAX. To avoid traffic delays, grade separations are being considered at some roadway crossings and locations: across Century Boulevard adjacent to the LAX south runways, across Manchester Avenue, across La Cienega Boulevard/I-405, across La Brea Avenue, between Victoria Avenue and 60th Street and between 48th and 39th Streets.

The Crenshaw/LAX Transit Corridor Project, as described above and shown in Figure 3-1, was adopted as the Locally Preferred Alternative (LPA) at the meeting of the Metro Board of Directors on December 10, 2009. At the same time, a number of design options have been incorporated into the LPA scheme. These include the following:

- An elevated station at the interface of Aviation Boulevard and Century Boulevard.
- Grade separation of Manchester Avenue by means of an aerial LRT guideway.
- Below-grade guideway between Victoria and 60th Street.

Other design options are still being studied. The LPA configuration may be further refined when the outcomes of these design studies are known.

For the purpose of presentation, the project corridor was divided into three segments: along Aviation Boulevard/Harbor S/D, along Florence Avenue/Harbor S/D, and on Crenshaw Boulevard.

2.1.1 Aviation Boulevard/Harbor S/D Segment

The Aviation Boulevard/Harbor S/D segment commences at the connection with the Metro Green Line. The alignment crosses under I-105 and over the Imperial Highway landing on the existing Metro Harbor Subdivision, adjacent to the Harbor S/D track. The alignment drops into a trench before 111th Street and remains in a trench until north of 104th Street, at which point the grade rises to an aerial configuration, crossing at Century Boulevard. North of the Century/Aviation Station the tracks drop to an at-grade alignment and follow the Harbor S/D until the proposed aerial grade separation at Manchester, where the alignment veers northeast, parallel to Florence Avenue.

2.1.2 Florence Avenue/Harbor S/D Segment

North of the aerial structure at Manchester, the alignment parallels Florence Avenue, running atgrade along the Harbor S/D. This alignment continues until it rises to an aerial configuration over La Cienega Boulevard and the I-405. North of the I-405 the alignment drops back down to grade to a point south of La Brea Avenue, where the alignment declines into a trench to pass below La Brea Avenue. Northward the alignment rises to grade and continues to a point near Brynhurst Avenue, where the alignment transitions into a cut-and-cover underground structure that curves northward into the Crenshaw Boulevard Segment.

2.1.3 Crenshaw Boulevard Segment

The Crenshaw Boulevard segment begins at the point where the alignment leaves the Harbor S/D corridor. The alignment begins in an underground configuration that continues north surfacing at



approximately 60th Street. The alignment then runs at-grade, down the middle of Crenshaw Boulevard to just south of the Leimert Park area, where the transition to an underground tunnel begins. The tunnel extends through to approximately 39th Street. North to Exposition Boulevard the alignment in the base configuration is at-grade running in the middle of Crenshaw Boulevard. Two alignment options are being considered including an optional station at Leimert Park, and an underground alignment between Martin Luther King Boulevard and Exposition Boulevard.

2.2 Scope of Work

The geotechnical services provided for this project, as detailed in the Revised Geotechnical Engineering Work Plan dated February 15, 2010, included the following tasks:

- Review of existing geotechnical, geological, and seismological data,
- Field investigation, which included drilling, sampling, and logging exploratory borings; supervising CPT soundings; and installing groundwater monitoring wells,
- Geotechnical in-situ testing and laboratory testing of soil samples,
- Chemical analyses of soil and water samples for presence of hazardous materials,
- Geotechnical engineering analyses to develop preliminary design and construction recommendations, and
- Preparation of preliminary geotechnical reports to present EMI's current findings, preliminary conclusions, and recommendations.





3 FIELD INVESTIGATION AND LABORATORY TESTING

All elevations in this report are with respect to mean sea level (msl).

3.1 Field Investigation

The purpose of this investigation was to obtain and analyze soil samples to determine the engineering properties to support the advanced conceptual engineering phase of this project. In addition, environmental soil samples were obtained and analyzed to evaluate the potential for chemical contamination at the proposed construction areas of the project site. Our exploratory program was generally planned to follow the project alignment closely at an average spacing of approximately 800 feet wherever there is a structure; and at 1,200 feet to 1,600 feet where the alignment is proposed to be at-grade. Placement of some exploratory locations was constrained by access, underground utility lines and traffic control. The locations of the exploratory borings and CPT soundings are shown in Appendix B.

3.1.1 Aviation Boulevard/Harbor S/D Segment

The field investigation for the Aviation Boulevard/Harbor S/D segment was originally planned to include fourteen (14) geotechnical borings and CPT soundings. An initial field investigation program was completed between April 1st and May 20th, 2010 by EMI, which only included drilling and sampling six (6) exploratory borings. The remaining eight (8) locations were explored between June 10 and June 14, 2010.

Field investigation information for the explored locations for the Aviation Boulevard/Harbor S/D segment is presented in Table 3-1. The existing ground surface elevations (GSE) at the subsurface exploratory locations within this segment vary from approximately 98.0 feet to 104.8 feet.





Table 3-1 - Field Investigation Information - Aviation Boulevard/Harbor S/D Segment

Boring No.	Approx. Station	Approx. Offset (ft)	Station Line Along Centerline	Approx GSE (ft)	Boring Depth (ft)	Approx. GWE (ft)
CPT-10-001*	12+85	15 Lt		98.0	50.3	N/E
R-10-002*	18+20	15 Lt		96.0	101.0	31.5
A-10-003*	27+35	15 Lt		94.4	101.5	3.4
CPT-10-004*	34+60	10 Lt		94.0	65.9	N/E
CPT-10-005*	41+70	10 Lt		94.0	64.0	N/E
CPT-10-006*	49+00	15 Lt		94.0	66.4	N/E
A-10-007*	56+28	15 Lt	Harbor S/D Railroad	95.3	101.5	27.3
R-10-008*	65+00	10 Lt	Track	94.5	101.0	31.5
A-10-009*	74+36	10 Lt		98.0	101.5	11.4
A-10-010*	84+80	10 Lt		100.0	86.5	N/E
A-10-011	94+37	20 Lt		103.4	31	N/E
A-10-012	107+48	10 Lt		103.5	31	N/E
R-10-013	117+00	10 Lt		104.0	101.5	N/E
A-10-014	122+60	8 Lt		104.8	100	7.8

Notes:

N/E = Not Encountered, GWE = Groundwater Elevation, GSE = Ground Surface Elevation, *Location estimated from plans

3.1.2 Florence Avenue/Harbor S/D Segment

The field investigation program for the Florence Avenue/Harbor S/D segment was performed between March 29 and April 6, 2010 by EMI. The field investigation included drilling and sampling fourteen (14) exploratory borings and performing three (3) Cone Penetration Test (CPT) soundings.

Field investigation information for the Florence Avenue/Harbor S/D segment is presented in Table 3-2. The existing ground surface elevations at the subsurface exploratory locations within this segment vary from 105.3 feet to 175.8 feet.





Table 3-2 - Field Investigation Information - Florence Avenue/Harbor S/D Segment

Boring No.	Approx. Station	Approx. Offset (ft)	Station Line Along Centerline	Approx GSE (ft)	Boring Depth (ft)	Approx. GWE (ft)
A-10-015	132+80	10 Lt		105.3	31	N/E
A-10-016	144+40	10 Lt		106.6	101	N/E
CPT-10-017	144+45	10 Lt		106.5	75.3	N/E
R-10-018	153+00	10 Lt		106.3	100	N/E
A-10-019	166+98	20 Lt		112.2	31	N/E
R-10-020	183+04	10 Lt		116.8	100	N/E
A-10-021	187+82	15 Lt		118.3	101	N/E
CPT-10-022	195+15	10 Lt	Harbor S/D	123.6	65.8	N/E
R-10-023	202+22	8 Lt	Railroad	132.0	100	N/E
R-10-024	208+35	10 Lt	Track	137.1	101	N/E
A-10-025	222+30	10 Lt		150.1	101	N/E
R-10-026	226+90	10 Lt		154.5	100	N/E
R-10-027	234+50	10 Lt		162.8	100	N/E
A-10-028	248+00	7 Lt		175.8	31	N/E
A-10-029	264+62	7 Lt		175.0	31	N/E
CPT-10-030	274+04	15 Lt		171.0	73	N/E
A-10-031	281+35	8 Lt		163.3	101	N/E

Notes:

N/E = Not Encountered, GWE = Groundwater Elevation, GSE = Ground Surface Elevation

3.1.3 Crenshaw Boulevard Segment

The field investigation program for the Crenshaw Boulevard was performed between March 10 and April 6, 2010 by EMI. The field investigation included drilling and sampling seventeen (17) exploratory borings and performing six (6) Cone Penetration Test (CPT) soundings. Groundwater sampling and monitoring wells were installed at locations of two (2) soil borings where groundwater was encountered.

Field investigation information for the Crenshaw Boulevard segment is presented in Table 3-3. The existing ground surface elevations at the subsurface exploratory locations within this segment vary from 113.0 feet to 182.2 feet.





Table 3-3 – Field Investigation Information – Crenshaw Boulevard Segment

Boring No.	Approx. Station	Approx. Offset (ft)	Station Line Along Centerline	Approx GSE (ft)	Boring Depth (ft)	Approx. GWE (ft)
CPT-10-032	290+92	0		163.7	79.6	N/E
A-10-033	298+40	0		165.0	100	82.0
A-10-034	305+52	0		169.5	100	N/E
CPT-10-035	312+82	0		172.0	71.5	N/E
A-10-036/ Well	321+43	0		176.7	100	79.8
CPT-10-037	329+15	0		180.4	63	N/E
CPT-10-038	337+17	0		182.2	54.5	N/E
R-10-039	347+36	0		178.0	100	N/E
R-10-040	357+20	0		159.0	100	N/E
A-10-041	362+28	0		149.4	100	N/E
R-10-043	370+75	40 Rt		136.9	100	N/E
A-10-044	375+50	45 Rt	Crenshaw Boulevard	135.4	100	N/E
A-10-045	384+25	0		134.4	100	N/E
CPT-10-045	384+25	0		134.4	32.5	N/E
R-10-046	393+50	0		132.9	100	N/E
CPT-10-046	393+50	0		133.1	33	N/E
R-10-047	401+10	0		126.3	100	61.9
A-10-048/ Well	411+00	0		117.3	100	63.8
R-10-049	416+20	0		115.7	100	92.0
A-10-050	424+35	0		115.0	100	64.0
A-10-051	431+00	0		114.2	100	58.0
R-10-052	438+50	0		113.2	100	91.0
R-10-053	448+42	0		113.0	100	97.0

Notes:

N/E = Not Encountered, GWE = Groundwater Elevation, GSE = Ground Surface Elevation





3.1.4 Maintenance Facilities

The field investigation program for one of the proposed maintenance facility locations (Site 14) was performed by EMI on May 17 and May 18, 2010. The field investigation included drilling and sampling two (2) exploratory borings. Field investigation information for Site 14 is presented in Table 3-4.

Table 3-4 – Field Investigation Information – Site 14

Boring No.	Approx. Station	Approx. Offset (ft)	Station Line Along Centerline	Approx GSE (ft)	Boring Depth (ft)	Approx. GWE (ft)
A-10-054	90+00	1,560 Lt	Harbor S/D Railroad	107.0	51.5	N/E
A-10-055	93+00	700 Lt	Track	107.0	51.3	N/E

Notes:

N/E = Not Encountered, GWE = Groundwater Elevation, GSE = Ground Surface Elevation

No borings were drilled specifically at Site 15 due to the presence of nearby exploratory borings within Harbor S/D right-of-way. Additional field investigations may be required for new facility sites.

3.2 Geotechnical Exploration and Soil Sampling

Borings were drilled using a modified CME-75 truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers or a truck-mounted Mayhew-1000 drill rig equipped with a 5-inch diameter rotary wash drilling system. CPTs were conducted in general accordance with the American Society for Testing and Materials (ASTM) standard D-3441. The borings and CPTs were advanced typically to a depth of 100 feet or refusal, whichever was encountered first, at locations where there is a proposed structure and to a depth of 30 feet where the alignment is atgrade. A portable Photo Ionization Detector (PID) meter was used to screen for potential presence of hydrocarbons in the borings during the drilling activities.

Exploratory borings were drilled to collect soil samples for geotechnical and chemical testing. CPTs were conducted to obtain a continuous profile of subsurface stratigraphy in lieu of the spatial data (usually every 5-foot of penetration) obtained from soil borings. These continuous profiles, supplemented by the soil borings, can also be used for soil liquefaction assessment. The boring logs, Log of Test Borings (LOTBs) and CPT data are presented in Appendix B. The approximate exploratory locations and ground surface elevations shown in the LOTBs were based on survey provided by Wagner Engineering and Surveying, except those in Aviation Boulevard/Harbor S/D segment as noted in Table 3-1, which were determined by tape measurement from existing features and topographic contour maps.

Bulk soil samples and relatively undisturbed samples were collected for geotechnical laboratory testing. The large bulk samples were obtained from soil cuttings at depths where future excavations might take place. The relatively undisturbed samples were collected using a 3-inch outside diameter Modified California split-spoon sampler lined with 1-inch high, 2.5-inch outside diameter brass rings. Standard Penetration Tests (SPT) were also performed in alternating manner





with relatively undisturbed sampling at every five (5) feet vertical interval using a 1.4-inch inside diameter split-spoon sampler to obtain small bulk soil samples. Both samplers were driven into the ground using a 140-lb automatic trip hammer free falling from a height of 30 inches. The numbers of blow to advance the samplers for every 6 inches of penetration or less was recorded. The LOTB sheets show the uncorrected field blow count to drive the samplers 12 inches or less. The blow counts required to drive the SPT sampler for the last 12 inches or less is referred to as the Standard Penetration Resistance (N-value).

3.3 Pressuremeter Testing

3.3.1 **Setup**

Pressuremeter testing was performed by EMI engineers to measure stress-strain response of subsurface soil at planned depths within selected boreholes. A total of fourteen (18) tests were performed in Borings A-10-003, A-10-007, A-10-009, A-10-010, A-10-025, A-10-031, A-10-033, A-10-034, A-10-041, A-10-045, and A-10-051 for the project using a TEXAM pressuremeter from RocTest Ltd.

The test was performed by inflating a probe consisting of a flexible membrane enclosed in a tubular stainless steel shield hydraulically to deform the surrounding soil radially. The average radial expansion is measured by volume of the hydraulic fluid (water) injected into the probe by reading a volume counter. The hydraulic pressure applied into the probe is measured by a pressure gauge.

In the field, the pressuremeter was lowered into the drilled borehole by means of the drilling rods. The testing depth was determined on-site upon inspection of the retrieved soil samples. Since the device is designed to fit in a 3-inch diameter borehole, the hollow stem augers (8-inch OD) were usually stopped a few feet above the desired depth and a 3-inch OD sampler was driven to create a smaller-sized open hole for the pressuremeter testing. After inserting the probe into the borehole, the pressure was applied in several increments and volume changes were noted after the pressure was stabilized. Several loading/unloading cycles were performed for each test. The plots with the borehole pressures versus borehole deformation data are presented in Appendix D after calibrating the data to account for internal deformation of the pressuremeter system.

3.3.2 Shear Moduli

The borehole pressures versus borehole deformation curves will have to be evaluated by HMM's tunnel designers to determine the appropriate shear moduli or Young's modulus for their applications. In an elastic medium, the radial expansion of a cylindrical cavity is related to the pressure by the equation:

$$\frac{\Delta r}{r} = \frac{(1+\nu)}{E} \Delta p$$

where r is radius and p is pressure of the cavity (in this case, borehole). The elastic constants in the above equation are Poisson's ratio (v) and Young's modulus (E). Assuming that the value of Poisson's ratio is known, the Young's modulus (E) and the shear modulus (G) can be determined by the following expressions:





$$E = (1 + \nu) \frac{\Delta p}{\Delta r / r}$$

and

$$G = \frac{E}{2(1+\nu)}$$

Since the open borehole was created prior to inserting the cylindrical probe, relaxation of in-situ soil pressure had taken place. Thus, the interpretation of modulus determined at very low pressure (e.g. less than in-situ overburden pressure) is not reliable, as they are influenced by borehole disturbance. The modulus determined from a borehole pressure higher than the in-situ overburden pressure is less affected by the borehole disturbance.

3.4 Downhole Seismic Logging

3.4.1 Logging Procedures

Geophysical logging was performed by Geovision of Corona, California using the suspension method. The logging provided in-situ compressional (P, or primary) and shear (SV, or vertical secondary) wave velocity measurements of the subsurface soil.

Geophysical logging was performed after completion of the borings using an OYO Model 170 Suspension Logging device to obtain in-situ horizontal shear and compressional wave velocity measurements at 5-foot intervals. The device consists of a logging recorder and a suspension logging probe to be lowered into the completed borehole. The probe (20 feet long) contains an impact source in the tip that generates an acoustic. The pressure transforms into P and S waves in the fluid-filled borehole through its walls into the surrounding soils. These waves propagating upward through the surrounding soils create detachable pressure waves in the fluid surrounding the receiver at the top of the borehole. This system directly determines the average wave velocity of the soil surrounding the borehole walls by measuring the elapsed time between arrivals of a wave propagating upward through the soil column.

Seismic velocity information could be used for a variety of purposes such as aiding the interpretation of stratigraphic information, characterization of ground response to earthquake motion, as well as development of ground stiffness for foundation design.

3.4.2 Seismic Velocity Test Results

Seismic compression (P-) and shear (S-) wave velocities of the subsurface soils were measured in four (4) borings (R-10-018, R-10-023, A-10-043, and R-10-052) within the project corridor. A summary plot of all measured P- and S-wave velocity profiles versus depth is shown in Appendix E.

Typically, the velocity profiles on Crenshaw Boulevard show that the upper 40 feet of the subsurface soils has a shear wave velocity ranging from 500 feet/second to 1,200 feet/second. The bottom 60 feet remained relatively uniform with shear wave velocities ranging from 1,200 feet/second to 1,500 feet/second. The velocity profiles on the Florence Avenue/Harbor S/D





segment show that the upper 40 feet of the subsurface soils has a shear wave velocity ranging from 1,000 feet/second to 1,200 feet/second. The bottom 60 feet of the subsurface soils has a shear wave velocities ranging from 1,200 feet/second to 1,500 feet/second.

3.5 Packer Testing

3.5.1 Testing Procedures

Packer testing is a common in-situ method of measuring hydraulic conductivity of soils and rock. The purpose of this testing was to provide in-situ transmissivity of the subsurface soils in the region of the tunnel bores, and to aid design of soil excavation, support, lining and dewatering systems for the proposed tunnels.

Packer testing was performed by EMI in three (3) borings (A-10-039, A-10-040, and A-10-041) at selected depth intervals. The depths and soil types tested are summarized in Table 3-5.

The testing procedures generally followed ASTM guidelines for the Constant Head Injection Test (ASTM D-4630–96). In each borehole, packer testing was performed after completion of drilling. Upon reaching the selected depth intervals, the borehole was flushed with clear water until the return water ran clear of any cuttings by visual observation. The test section was then internally sealed by two inflatable rubber packers at selected depths using water to isolate a test section. Water was then pumped through a hollow feed tube into the test section. The lengths of the test sections were typically 20 feet, or they were adjusted after inspection of the soil samples retrieved in that depth range. The water inflow quantity versus time was measured until steady-state flow was reached.

The constant water pressure was applied to the water in the sealed interval through the feed tube and the resulting flow rates were recorded over time. The constant pressures applied (up to three for each test) were less than the anticipated overburden stress at each test depth in order to avoid hydro-fracturing.

Testing details and measured test results are presented in Appendix B for each tested section with the applied pressures and measured water flow quantities.

3.5.2 Permeability

The equations used for calculation of the coefficient of permeability are as follows (Das, 1983):

$$k = \frac{q}{2\pi lh} \log \frac{l}{r} \qquad \text{for } l \ge 10 \, r$$

and

$$k = \frac{q}{2\pi lh} \sinh^{-1} \frac{l}{2r} \qquad \text{for } 10 \, r > l \ge r$$

where



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k = coefficient of permeability of the soil,

q =constant rate of water injected into borehole,

l =length of test hole interval,

r = radius of borehole in test hole interval, and

h =differential head of groundwater in casing to ground surface.

The differential head of groundwater h is the total of injection pressure at the pressure gauge at the surface plus the gravity head of water (in the steel tubing) between the center of the packer test interval to the pressure gauge.

Calculated soil permeability ranges from these series of tests are summarized in Table 3-5. The data indicates that flow rates increase with increasing pressure. The k-values developed indirectly from the packer test represent only an estimate of soil permeability and should be cross-checked with other data and measurements.

Table 3-5 – Summary of Packer Testing

Boring No.	Boring Depth (ft)	Approx. GSE (ft)	Test Interval BGS (ft)	Center Depth (ft)	Soil Type (USCS)	Approx. Coefficient of Permeability (in/s)
R-10-039	100	163.8	20-55	37.6	Mostly SP-SM with thin layers of CL and ML	3.5x10 ⁻³
R-10-040	100	164.4	30-60	45.0	10-foot thick layer of ML and 20-foot layer of SP-SM	1.0x10 ⁻³
R-10-043	100	168.5	20-44.5	32.3	Mostly SP with layers of GP	1.1x10 ⁻²

Notes:

USCS = Unified Soil Classification System, BGS = Below Ground Surface, GSE = Ground Surface Elevation

3.6 Well Installation

Groundwater monitoring wells were constructed at the location of Borings A-10-36 and A-10-48. The groundwater monitoring wells were constructed using 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) screen and solid schedule 40 PVC casing. The screened portion of the wells consisted of 0.01-inch wide slots and was placed between approximately 15 feet below the groundwater surface and 5 feet above the groundwater surface. Solid PVC casing was then placed between 0.5 foot below ground surface and the well screen. Number 2/12 Monterey sand was placed in the annulus of the screened interval with approximately 2 feet above the screen, and 1 foot below the screen. A bentonite-chip seal was placed above the filter pack to within approximately 2 feet of the ground surface. The upper portion of the well was sealed with concrete. The wells were finished with a traffic-rated box set in concrete or irrigation box set in earthen ground. The wells were installed with a screw-on cap seal. The well-installation logs are presented in Appendix B.





3.7 Geotechnical Laboratory Testing

Soil samples that were considered representative of the subsurface conditions were tested to obtain or derive relevant physical and engineering soil properties. The laboratory tests were performed in general accordance with the latest American Society for Testing and Materials (ASTM) standards or California Test Methods (CTM). The following geotechnical laboratory tests were conducted to supplement the observations recorded during the field investigation:

- Grain size distribution (ASTM D-422),
- Passing #200 sieve (ASTM D-1140),
- Atterberg Limits (ASTM D-4318),
- In-situ density and moisture content (ASTM D-2216 and D-2937),
- Direct shear (ASTM D-3080),
- Unconfined Compression (ASTM D-2166),
- Unconsolidated-undrained triaxial (ASTM D-2850),
- Consolidation (ASTM D-2435),
- Maximum density and optimum moisture content (ASTM D-1557),
- Expansion Index (ASTM D-4829), and
- Corrosivity (CTM 417, 422, 532 and 643).

In-situ moisture content and total unit weight test results are shown on the boring logs (Appendix B). Corrosion test results are presented in Section 5.5. The remaining laboratory test results are provided in Appendix F.

Other chemical testing of soil samples is reported in the Preliminary Hazardous Substance Identification Technical Memorandum (Hatch Mott MacDonald, 2010).





4 GEOLOGY AND SEISMICITY

4.1 Regional Geology

The Crenshaw/LAX Transit Corridor is in the northern part of the Los Angeles Basin. The Los Angeles Basin is a large low-lying coastal plain bordered by the Santa Monica Mountains on the north, the Repetto and Puente Hills on the northeast, the Santa Ana Mountains on the east, and the San Joaquin Hills on the south. The western margin of the basin is open to the Pacific Ocean except for one prominent hill, the Palos Verdes Hills or Peninsula. The floor of the Los Angeles Basin is a relatively flat surface rising gently from sea level along the coastline to an apron of uplifted terrain along the base of the surrounding mountains which rise abruptly to a few thousand feet above the plain. The apron of elevated terrain surrounding the basin floor includes the Santa Monica, La Brea, Montebello, and Santa Fe Springs plains. The flat basin floor is interrupted in a few localities by small hills, the most prominent of which are a northwest-southeast trending alignment of hills and mesas extending from the Newport Beach area on the south to the Beverly Hills area on the north.

The northwest-trending alignment of hills is due to folding and geological fault displacements along the Newport-Inglewood Structural Zone (NISZ). The NISZ divides the basin floor into two major plains, the Downey-Tustin Plain on the northeast and the Torrance Plain on the southwest.

The floor of the Los Angeles Basin is directly underlain by unconsolidated Quaternary-age sandy sediments. These generally could be subdivided into loose unconsolidated Holocene-age sediments which cover the bulk of the basin, and late-Pleistocene materials which comprise the surface over much of the uplifts of the NISZ and the marginal plains. Hard rocks occur only in the mountains surrounding the basin and at depths ranging from about 5,000 feet to as much as 30,000 feet in the deepest part of the central basin.

Except for the NISZ, most surface geological faults such as the Santa Monica, Hollywood, and Whittier faults occur along the basin margins (Figure 4-1). In addition to these known surface faults, the Los Angeles region appears to be underlain by buried thrust and reverse faults commonly referred to as blind thrust faults. For example, the 1987 Whittier and the 1994 Northridge earthquakes occurred on subsurface blind thrust faults. The blind thrust faults are poorly understood features with poorly known locations and orientations: some of them could dip under the project area. However, any large earthquakes associated with these subsurface features are most likely to originate at great depths (e.g. about 10 miles) and thus these should not impact the project area significantly more than similar-sized earthquakes on the other nearer surface faults such as the NISZ.

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4.2 Project Corridor Geology

The project corridor is in the northern part of the Los Angeles Basin. The southern end of the corridor is on the Torrance Plain. As the corridor extends northerly, it crosses the hills and faults of the Newport-Inglewood Structural Zone, specifically the Baldwin Hills. The corridor extends along the east side of the Baldwin Hills onto the Downey Plain and terminates on the north at the southern edge of the La Brea Plain. The southern and central parts of the corridor are underlain by Late Pleistocene-age sediments of the Lakewood Formation. These sediments could be overlain locally by pockets and thin deposits of younger Holocene-age alluvium, and are probably underlain at shallow depth by the Pleistocene San Pedro Formation (Figure 4-2). The northern part of the corridor is directly underlain by Holocene-age basinal and stream alluvium. Most of these were deposited by streams that have meandered across the floor of the Los Angeles Basin such as Ballona Creek, Los Angeles, and San Gabriel rivers. Most creeks and rivers are now confined within concrete- and rip-rap-lined aqueducts. There are no hard rocks along the project corridor. Figure 4-3 depicts geologic structure in relation to estimated groundwater elevations.

4.3 Soil Conditions

A total of thirty-nine (39) soil borings and nine (9) cone penetrometer tests (CPTs) were completed as part of this geotechnical exploration. A subsurface soils stratigraphy along the proposed alignment is depicted on the cross-sections attached in Appendix C. EMI has also reviewed the LOTB sheets included with the as-built plans for the Florence Avenue Overpass at the I-405 crossing and a number of other reports of previous geotechnical explorations along and near the corridor, particularly in the LAX area.

4.3.1 Aviation Boulevard/Harbor S/D Segment

General soil conditions along the Aviation Boulevard/Harbor S/D segment based on EMI's exploration and the subsurface data from soils report by Law and Crandall (1991) are as follows:

- This segment between Imperial Highway and Century Boulevard is underlain by up to 30 feet of light brown to black lean clay and silt. Underlying this upper stratum is brown to light brown unit of poorly-graded sand to silty sand with interlayers of light gray to bluish gray silt and lean clay.
- Between Century Boulevard and Arbor Vitae Street, a surficial 10 to 15 feet thick layer of medium dense to dense, silty to sandy clay is underlain by 15 to 20 feet of dense to very dense, olive brown, poorly-graded sand. Below the sand layer is a 20 to 25 feet thick stiff to hard clay layer overlaying dense silty sands. Very stiff silt and clay lenses are common throughout this section.
- Between Arbor Vitae Street and Manchester Boulevard, a thick layer of silt and clay exists approximately between 0 and 75 ft below existing grade. This unit is olive gray to olive brown, medium stiff to very stiff with areas of high to low-plasticity clays and silts. Underlying the clay unit is an over 100 feet thick unit of very dense, olive brown to olive gray, poorly-graded sand to silty sand.





4.3.2 Florence Avenue/Harbor S/D Segment

General soil conditions along the Florence Avenue/Harbor S/D segment between Manchester Boulevard and Crenshaw Boulevard are as follows:

- Between Manchester Boulevard and Ivy Avenue, the proposed corridor is underlain by a predominantly clayey to silty unit. Stiff to hard, lean to fat clay is found within the upper 70 feet. The clayey unit overlies a very dense, poorly graded sand to silty sand layer. Interlayers of silty sand and silt are prevalent at approximately 15 to 30 feet below existing grade. In the vicinity of Ivy Avenue, the soil condition transitions to a sandy unit which interfingers with some clay layers.
- Between Ivy Avenue and Crenshaw Boulevard, the segment is underlain by mainly sandy units with some intermittent zones of medium stiff to hard silt and clay. The main sandy unit consists of olive to olive brown, medium dense to very dense poorly graded sand to silty sand extending approximately from 0 to over 100 feet below grade.
- Between Ivy Avenue and I-405 freeway, a clayey unit underlies dense to very dense sands at depths of greater than 80 feet below the surface. This cohesive unit is consisting of very stiff to hard, olive to olive gray clay, silt and clayey sand.
- Between Redondo Boulevard and Crenshaw Boulevard, the upper 10 to 15 feet is consisting of brown to dark brown, loose silty to clayey sand.
- The segment between La Brea Avenue and Redondo Boulevard is underlain by discontinuous layers of medium stiff to very stiff clay and silt up to 20 feet thick.

Overall, the Florence Avenue/Harbor S/D segment is underlain by predominantly fine grained, low- to high-plasticity soils between Manchester Boulevard and Ivy Avenue; and predominantly granular, weakly cemented soils between Ivy Avenue and Crenshaw Boulevard.

4.3.3 Crenshaw Boulevard Segment

General soil conditions along the Crenshaw Boulevard segment based on EMI's current exploration are as follows:

- This segment is underlain by up to 25 feet of dark brown to olive brown, stiff to very stiff, sandy clay to lean clay.
- The clayey stratum is underlain by approximately 25 to over 100 feet of weakly cemented, medium dense to very dense, brown to olive brown, poorly to well-graded sand to silty sand. This unit also contains scattered 5 to 10 feet thick pockets of very dense, poorly graded gravel with sand and silt at approximately 40 feet below existing grade.
- Discontinuous lenses of stiff to hard clay and silt layers are prevalent throughout this portion of the alignment. In particular, between 43rd Street and Exposition Boulevard, a stiff to hard clay lens up to 20 feet thick exists at 10 to 30-foot depth below existing grade in the area of the proposed tunnel crown.





- Between 43rd Street and Exposition Boulevard, a 10 to 20 foot layer of weakly cemented, loose to medium dense, silty to clayey sand exists at depths ranging from 0 to 20 feet below the existing grade.
- Between 43rd Street and Brynhurst Avenue, lenses ranging from 5 to 30 feet thick of dark gray to bluish, very stiff to hard silt and clay were encountered at depths within the upper 60 feet below the existing grade.
- Deeper layers of dark brown to olive brown, very dense to hard silt and clay were observed at depths of 60 feet and below. In particular, between Vernon Avenue and Martin Luther King Jr. Boulevard, a 5 to 20 foot thick lens of very stiff to hard, high plasticity clay was observed at a depth of 70 to 85 feet below existing grade.

Geologic cross-sections depicting different geologic units and stratigraphies along the project alignment are presented in Appendix C.

4.4 Groundwater Conditions

4.4.1 Aviation Boulevard/Harbor S/D Segment

Between Imperial Highway and Arbor Vitae Street, groundwater was encountered at various elevations according to Law/Crandall (1991). Just north of Imperial Highway, groundwater was encountered at elevations ranging from approximately 50 to 30 feet (approximately 40 to 63 feet below existing grade). Groundwater appeared to fluctuate locally based on monitoring of an installed piezometer by Law/Crandall near 111th Street and Aviation Boulevard in 1991. Groundwater was measured at a depth of 63 feet in June 1991 and then at 46 feet in July 1991. Further north near the intersection of 102nd Street and Aviation Boulevard., groundwater was observed at elevations between 0 and 25 feet (approximately 68 to 98 feet below existing grade). From EMI's current exploration, groundwater elevations were found to fluctuate from 3 to 47 feet (approximately 62 to 97 feet below ground surface).

According to California Geological Survey maps (1998 a,b) and monitoring well data around Aviation Boulevard (compiled from the State of California GEOtracker system), historical high groundwater varies from 40 to 95 feet below existing grade. The design groundwater depth recommended for the Aviation Boulevard/Harbor S/D segment is 40 feet below ground surface.

4.4.2 Florence Avenue/Harbor S/D Segment

No groundwater was encountered within any of the borings or CPTs completed as part of the Florence Avenue/Harbor S/D segment.

According to California Geological Survey maps (1998 a,b), and various monitoring wells around Florence Avenue compiled from the State of California GEOtracker system, historical high groundwater varies from 95 to 135 feet below existing grade. Researched groundwater elevations, where encountered, were reported to range from 6 to 9 feet.





4.4.3 Crenshaw Boulevard Segment

During EMI's field investigation conducted along Crenshaw Boulevard in March and April of 2010, static groundwater was encountered in 10 boreholes at elevations of approximately 80 to 60 feet (approximately 51 to 97 feet below existing grade). A perched groundwater condition was also observed within borings between 38th Street and Exposition Boulevard at elevations of approximately 90 to 100 feet (approximately 16 to 24 feet below existing grade). In this area, a clayey unit was encountered near the perched groundwater elevations. The base of the proposed tunnel section along Crenshaw Boulevard is located approximately 5 to 10 feet above the observed static groundwater, and the top of the proposed tunnel section is below the observed perched groundwater levels. Two monitoring wells have been installed where groundwater was encountered to monitor the groundwater fluctuation.

According to California Geological Survey maps (1998 a,b) and monitoring well data around Crenshaw Boulevard compiled from the State of California GEOtracker system, historical high groundwater varies from 8 to 60 feet below existing grade. Between Exposition Boulevard and 48th Street, the historical high groundwater table varies from 8 to 30 feet below the surface. Extending southerly along Crenshaw Boulevard, the historical levels are at depths from 40 to 60 feet below existing surface between 48th Street and Florence Avenue. The design groundwater depths recommended are shown in Table 4-1.

Table 4-1 - Groundwater Depth - Crenshaw Boulevard Segment

Approximate Limits	Groundwater Depth Range Observed in Borings (feet)	Historical Groundwater Depth (feet)	Design Groundwater Depth Below Existing Grade (feet)
Exposition Boulevard to W 48 th Street	16 to 61 (Average = 40)	10	10
W 48 th Street to Florence Avenue	80 to 90 (Average = 85)	40 to 50	40

Notes:

Historical groundwater depth is estimated from CGS map (1998 a,b) and various monitoring wells around Crenshaw Boulevard compiled from the State of California GEOtracker system. Groundwater depths between contours were linearly interpolated.





4.5 Regional Seismic Setting

The project corridor is in seismically active southern California. The present-day seismotectonic stress field in the Los Angeles region is one of north-northeasterly compression. This is indicated by the geologic structures, by earthquake focal-mechanism solutions, and by geodetic measurements. These data suggest crustal shortening of between 5 and 9 mm/year in the north-south direction across the Greater Los Angeles area and about 2.5 mm/yr elongation in the east-west direction (Argus et al., 1999).

Historical epicenter maps show widespread seismicity throughout the region. Earthquakes in the Los Angeles region occur primarily as loose clusters along the Newport-Inglewood Structural Zone, along the southern margin of the Santa Mountains, the margin between the Santa Susana-San Fernando Valley and the southern margin of the San Gabriel Mountains, and in the Coyote Hills-Puente Hills area. Although historical earthquakes have occurred in proximity to known faults, they are often difficult to directly associate with mapped faults. Ward (1994) estimated that about 40% of seismic moment cannot be associated with known faults. Part of this difficulty is due to the fact that the basin is underlain by several poorly known subsurface thrust faults, generally referred to as blind thrust faults.

The largest historical earthquake within the Los Angeles Basin was the 1933 Long Beach event which had a magnitude of about $M_W = 6.4$ ($M_L = 6.3$). This earthquake did not rupture the ground surface but is believed to have been associated with the southern part of the Newport-Inglewood Structural Zone, a major strike-slip fault in the Los Angeles Basin (Benioff, 1938). The association was based on abundant ground failures along the NISZ trend but no unequivocal surface rupture was identified. Reevaluation of the seismicity data by Hauksson and Gross (1991) relocated the 1933 earthquake hypocenter to a depth of about 6 miles below the Huntington Beach-Newport Beach city boundary.

Other major earthquakes in the region include the 1994 Northridge and the 1971 San Fernando earthquake. The 1994 earthquake had a moment magnitude (M_W) of about 6.7 (M_S =6.8, M_L =6.4), and occurred on a southerly dipping subsurface fault which was unknown prior to the earthquake. The main shock occurred at a depth of about 19 km. Earthquake aftershocks clearly defined the rupture surface dipping about 35 degrees southerly from a depth of about 2 or 3 km to 23 km (Hauksson et al, 1995). The causative fault was never identified with certainty. The event could have occurred on an eastern extension of the Oakridge fault (Yeats and Huftile, 1995), a southerly dipping feature fault bounding the Ventura Basin and the Santa Susana Mountains.

The 1971 San Fernando earthquake was of similar size (M_W =6.7, M_S =6.4, M_L =6.4) to the 1994 event but did involve surface rupture. The 1971 event occurred on a northerly dipping thrust fault that dips from the northern side of the San Fernando Valley to a depth of about 15 km under the San Gabriel Mountains. Several mapped surface faults were involved such as the Sylmar fault, Tujunga fault, and Lakeview fault. These faults are commonly considered to be part of the Sierra Madre fault system which extends easterly from the San Fernando Valley to the north side of the San Gabriel Valley, and to the Cucamonga fault in the San Bernardino area.

The 1987 Whittier earthquake (M_L =5.9, M_W =5.9) occurred on a subsurface fault dipping under the Puente Hills to about 10 miles beneath the San Gabriel Basin (Shaw and Shearer, 1999; Shaw et al., 2002). This event did not rupture the ground surface.

Another significant earthquake in the region was the 1812 earthquake which caused damage at the San Juan Capistrano Mission. The location and magnitude of the 1812 earthquake are





unknown because of the sparse population at the time, but geological studies (Jacoby et al, 1987; Fumal et al, 1993; Weldon et al, 2004) postulated that it did not occur in the Capistrano area, but rather was a large (M>7.0) distant event on the San Andreas fault in the Wrightwood area of the San Gabriel Mountains.

The earliest documented earthquake in the region was reported by the Portola expedition as they camped near the Santa Ana River in 1769. This event has been attributed by various geoscientists to just about every fault in the Los Angeles area but it could just as well have been a distant event that shook a wide area as did the 1971 San Fernando, the 1987 Whittier, and the 1994 Northridge events, as well as many other more-distant events (for example, 1992 Landers event).

4.6 **Faulting**

The California Geologic Survey (CGS) establishes criteria for faults as active, potentially active or inactive. Active faults are those that show evidence of surface displacement within the last 11,000 years (Holocene age). Potentially active faults are those that demonstrate displacement within the past 1.6 million years (Quaternary age). Faults showing no evidence of displacement within the last 1.6 million years may be considered inactive for most structures, except for critical or certain life structures. In 1972, the Alquist-Priolo Special Studies Zone Act (now known as the Alquist-Priolo Earthquake Fault Zone Act, 1994, or APEHA) was passed into law which requires studies within 500 feet of active or potentially active faults. The APEHA designs "active" and "potentially active" faults utilizing the same age criteria as that used by the CGS. However, the established policy is to zone active faults and only those potentially active faults that have a relatively high potential for ground rupture.

According to the Alquist-Priolo (AP) Fault Zone Map (Figure 4-4), two active fault zones traverse the proposed project alignment. The principal active faults are within the Newport-Inglewood Structural Zone (NISZ), specifically the Potrero and the Inglewood faults (Figure 3-2). The corridor crosses the Newport-Inglewood fault near La Brea Avenue and Florence Avenue, and the Potrero fault crosses the Inglewood Park Cemetery near Centinela Avenue and Florence Avenue. The 2007 Caltrans fault database describes the NISZ fault as a connected system (Newport-Inglewood fault + Rose Canyon fault) capable of generating a magnitude 7.5 earthquake. As earthquake magnitude is proportional to fault area, a combined fault system tends to increase the controlling earthquake magnitude. In our opinion, since the segment of fault crossing the proposed alignment is actually the Newport-Inglewood fault segment, which is capable of generating a magnitude 7.1 earthquake (Cao et al, 2003), the maximum magnitude of earthquake from NISZ should be taken as 7.1 for this project. There are several other poorly known minor faults within the NISZ. The corridor also crosses the Charnock fault and probably the Overland Avenue fault. Both of these faults are poorly known. They appear to displace Quaternary-age sediments and form subsurface barriers to ground water flow (Figure 3-4). Many geological investigations have speculated that there could be a thrust fault along the northeast side of the Baldwin Hills. But there is little published documentation about such a fault.





5 PRELIMINARY FINDINGS AND RECOMMENDATIONS

5.1 Seismic Data and Evaluation

5.1.1 Ground Motions and Response Spectra

Metro specifies that seismic designs of Metro structures be assessed for a two-level analysis – ODE and MDE. The ODE is the Operating Design Earthquake with a 50 percent chance of exceedance in a 100-year time span (equivalent to roughly a return period of 150 years). The MDE is the Maximum Design Earthquake with a 4 percent chance of exceedance in a 100-year time span (equivalent to roughly a return period of 2,500 years).

For the ODE event, structures are designed to respond to design earthquakes without significant structural damages. For the MDE event, structures are designed to survive earthquake loading with repairable damage and maintain life safety. Furthermore for aerial structures, design acceleration spectra for MDE event is compared with Caltrans seismic design criteria where necessary; and the greater of the spectral coordinates adopted for design. For the tunnels, Metro also requires that at least three sets of spectrum-matched time-histories be used for evaluating seismic performance.

5.1.1.1 Determination of Probabilistic Seismic Hazard Spectra

To develop ODE and MDE event criteria, probabilistic seismic hazard analyses (PSHA) were conducted for the project alignment. The PSHA analytical technique follows a standard approach first developed by Cornell (1968). This approach has been further expanded to fully treat both, the randomness (aleatory variability) and the scientific uncertainty (epistemic uncertainty) of ground motion prediction.

Southern California is seismically very active region, and the major Newport-Inglewood Structural Zone fault system near the site is shown in Figure 4-4. Additional faults were also included in the probabilistic seismic hazard analysis although they did not contribute significantly to the hazard. The return periods considered were the ones corresponding to the ODE and MDE as described above.

The 2008 USGS interactive deaggregations (Beta) online tool was used to develop the spectra. This online tool adopts the 2008 updated source model including refining upon the conventional assumption that an earthquake recurrence is a random process (i.e. Poisson's distribution). The 2008 updated source model accounted for the time-dependant nature of earthquake recurrence along the adjacent faults to the site. However, such source effect updates generally led to only minor changes in the resultant seismic hazard solutions. The most important changes in the 2008 update relates to the utilization of the Next Generation Attenuation (NGA) relationships that incorporate more recent large magnitude earthquake recordings.

The 2008 USGS interactive probabilistic seismic hazard solutions incorporated three of the five NGA relationships, including: (1) the Boore and Akinson (2008), (2) the Campbell and Bozorgnia (2008), and (3) the Chiou and Young (2008) NGA relationships. The Abrahamson and Silva and the Idriss's NGA relationships were not incorporated into the 2008 seismic hazard solution because documentations for the two models were not completed on time to be incorporated into the 2008 cycle of the USGS seismic hazard mapping effort.





Table 5-1 tabulates the spectral coordinates of the seismic hazard spectra developed with 5% damping for an average shear wave velocity of the upper 100 feet of soil profile (V_{s30}) of 1,500 feet/second. These seismic hazard spectra represent the reference ground condition associated with outcrop depth of approximately 100 feet below the ground surface (bgs). As the Metro criteria do not require near fault effects, the developed reference spectra do not consider the near fault directivity; i.e., the two horizontal orthogonal directions have the same shaking level. Figures 5-1, 5-2, and 5-3 show the plots of the reference hazard spectra for the ODE and MDE for the three project segments.

Table 5-1 - Reference Seismic Hazard Spectra for V_{s30} of 1,500 ft/sec

	Aviation Boulevard/Harbor S/D		Florence Ave		Crenshaw Boulevard	
Period (sec)	MDE 2,500-year return	ODE 150-year return	MDE 2,500-year return	ODE 150-year return	MDE 2,500-year return	ODE 150-year return
	Acc (g)	Acc (g)	Acc (g)	Acc (g)	Acc (g)	Acc (g)
0.0	0.64	0.23	0.68	0.24	0.73	0.25
0.1	1.29	0.44	1.36	0.46	1.44	0.48
0.2	1.58	0.54	1.65	0.56	1.77	0.59
0.3	1.45	0.49	1.53	0.51	1.65	0.54
0.5	1.14	0.37	1.22	0.39	1.32	0.41
1.0	0.65	0.21	0.69	0.22	0.74	0.23
2.0	0.32	0.1	0.33	0.10	0.34	0.11
3.0	0.20	0.06	0.21	0.06	0.21	0.07
4.0	0.14	0.04	0.15	0.04	0.15	0.05
5.0	0.12	0.03	0.12	0.03	0.12	0.04



5.1.1.2 Development of Spectra Compatible Time-Histories

Metro Design Criteria requires development of spectrum-compatible earthquake time histories for the seismic designs of aerial structures and underground structures. Three recorded ground motions were selected as shown on Table 5-2 as the startup motion for spectrum matching. For this report, only the MDE (2,500-year spectrum) was matched.

Spectrum-compatible time histories were developed by modifying the recorded ground motions so that their spectra are similar to the reference hazard spectra. Various methods have been developed to perform the spectrum matching. A commonly used method adjusts the Fourier amplitude spectrum based on the ratio of the target response spectrum to the time history response spectrum while keeping the Fourier phase of the reference history fixed. An alternative approach for spectral matching adjusts the time history in the time domain by adding wavelets to the reference time history. In this project, the time domain method was used.

As part of the spectral matching procedure, a baseline correction is applied to the ground motions. The baseline is computed by fitting the displacement time history to a high-order polynomial (order 4 to 7) and excluding the constant and linear terms. The second derivative of this displacement baseline is computed and it is subtracted from the acceleration ground motion. The resulting ground motion is baseline corrected in acceleration, velocity, and displacement.

Plots G-1 to G-18 (G-1 through G-6 for Aviation Boulevard/Harbor S/D, G-7 through G-12 for Florence Avenue/Harbor S/D, and G-13 through G-18 for Crenshaw Boulevard) in Appendix G show the three sets horizontal time histories that are spectrum matched to the MDE (2,500-year) reference spectra. Each set has two horizontal components; horizontal 1 (H1) and horizontal 2 (H2). These spectrum-compatible time histories were used to conduct site response analyses to further establish ground shaking criteria at different depths below the ground surface, depending on the types of structures being designed.

Table 5-2 – Startup Earthquake Records for Spectrum Matching

Set	Earthquake	Station	Magnitude
1	1999 Hector mine	Hector	7.1
2	1989 Loma Prieta	Gilroy 03	6.9
3	1979 Imperial Valley	Brawley	6.5

5.1.1.3 Dynamic Soil Properties

Consistent with Metro Design Criteria, one dimensional site response analyses were conducted in which small-strain shear modulus, and the modulus reduction and damping curves are needed. The small-strain shear modulus G_{max} is best estimated from shear wave velocity values that are measured in the field and by using the relationship of

$$G_{\text{max}} = \rho V_s^2$$

where ρ is the soil density and V_s is the measured shear wave velocity.





As described in Section 3.4.2 of this report seismic compression (P-) and shear (S-) wave velocities of the subsurface soils were measured in four (4) borings (R-10-018, R-10-023, A-10-043, and R-10-052) within the project corridor. A summary plot of all measured P- and S-wave velocity profiles versus depth is shown in Appendix E. The seismic CPTs conducted are shown on Appendix B. Down-hole seismic suspension logging (P-S logging) and seismic CPTs were conducted to supplement stratigraphic information and establish idealized shear wave velocity profiles of the subsurface. Several representative one-dimensional soil columns were idealized in order to conduct preliminary site response analyses, as shown in Appendix G. At this Advanced Conceptual Design stage, the P-S logs from borings R-10-018 and R-10-023 were used to develop shear wave velocity profiles for the Florence Avenue/Harbor S/D Segment. P-S logs from borings A-10-043 and R-10-052 were used to develop shear wave velocity profiles for the Crenshaw Boulevard Segment. The shear wave velocity profile for the Aviation Boulevard/Harbor S/D Segment was developed using measurements from the P-S log from boring A-10-043 due to similar subsurface soils and similarity with seismic CPT-10-005 (pushed on the Aviation Boulevard/Harbor S/D Segment).

The dynamic properties in terms of normalized shear modulus and damping curves have been studied by many researchers and the data have been correlated to the confining pressure for sand or Plasticity Index (PI) for clay (Darendeli 2001; EPRI 1993; Seed et al. 1986; Sun et al. 1988; Vucetic and Dobry 1991); The EPRI relationships for sands (1993) and the Vucetic and Dobry relationships for clay (1991) represent the most widely adopted model for site response analyses. The procedures have been adopted by Caltrans (CSAB 1996) for major toll bridges as well as by the Nuclear Regulatory Agency (REI 2002) for nuclear power plants.

The EPRI sand curves conform favorably with the well-known Seed et al sand relationship (Seed et al. 1986) at shallow depths. Therefore, we elected to adopt the Seed et al relationship for sand (1986) and the Vucetic and Dobry relationship for clays (1991).

To account for potential variations in the determination of in-situ soil properties, the following parametric studies were considered: (1) the best-estimate case established from the downhole shear-wave velocity measurements, (2) a lower-bound case and (3) an upper-bound case. Scaling factors of 0.75 and 1.25 were used as multiplication factors on the best-estimate shear-wave velocity for lower and upper bound scenarios.

5.1.1.4 Free-Field Site Response Analysis

Site response analyses were conducted using the computer program SHAKE91 (Idriss and Sun 1992) for equivalent linear analysis. The program SHAKE91 has been used for solving one-dimensional shear wave propagation problems for three decades. Engineers have accumulated knowledge from the performance of SHAKE91 in predicting seismic ground responses during earthquakes.

Free-field site response analyses were conducted at each representative soil column for both horizontal components of the ground motions. Free-field ground motions were computed for the ground surface (0-), 10-, 30-, 40- and 50-feet below ground surface with the best estimated, upper-bound and lower-bound soil properties, as shown on Figures 5-4 to 5-9 (Aviation Boulevard/Harbor S/D Segment), Figures 5-10 to 5-15 (Florence Avenue/Harbor S/D Segment), and Figures 5-16 to 5-21 (Crenshaw Boulevard Segment) in terms of spectral accelerations and spectral displacement. These ground motions computed at some depth can be used as input to the structural model for seismic design, depending on the type of structure to be analyzed. As an example, if the structure to be analyzed is founded on a shallow foundation system, the ground motions to be used would be the ones at ground surface. In the same way, if the structure is





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supported on small-diameter piles, the corresponding ground motions to be used would be at 10 feet to 20 feet below ground surface, and at 30 feet below ground surface for the structures founded on large-diameter piles. Regarding tunnels and other buried structures, the ground motions to be used as input would be the free-field ground motions computed at the mid height of the buried structures to evaluate inertia loading effects.

At the current Advanced Conceptual Design stage, envelop of the free-field spectra presented in Figures 5-4 to 5-21 can be used for the response spectrum analyses of the structures. The acceleration, velocity, and displacement time histories of these motions can be made available if time history analyses are to be performed.

To assist the conceptual design of the underground facilities, earthquake induced shear strains of free-field soils are provided from the one-dimensional site response analyses. The uniform shear strains (defined as 65% of the maximum shear strains) from the site response analysis are presented in Figures 5-22 (Aviation Boulevard/Harbor S/D Segment), Figures 5-23 and 5-24 (Florence Avenue/Harbor S/D Segment), and Figures 5-25 and 5-26 (Crenshaw Boulevard Segment) along the soil column from all three input motions with best estimated, upper- and lower-bound ranges. Generally the uniform shear strains are less than 1.5% for all locations and all sets of input accelerations. The shear strain is a useful parameter to assess the racking behavior of the tunnel structures in addition to the basis inertial loading implied by the response spectra shown in Figures 5-4 to 5-21. The shear strains computed for this case are for the free-field condition which did not include the proposed tunnel or other buried structures in the analyses, but these results should be considered reasonably conservative for the Advanced Conceptual Design stage.

More detailed seismic analyses will be performed in the next design phase to refine the development of the seismic design curves when additional soil investigation and the conceptual design are completed. The future refinement of ground motion assessment is envisaged to include consideration of soil-structure interaction techniques for aerial structures to account for kinematic soil-pile interaction and for underground structures to account for soil-tunnel lining interaction and two-dimensional site response effects.





5.1.2 California Building Code Seismic Coefficients

For the structures on the potential Maintenance Facility, at-grade stations and appurtenant structures that are designed in accordance with the latest version of the California Building Code (CBC), Table 5-3 shows the seismic design parameters that should be used:

Table 5-3 – Summary of CBC Seismic Coefficients

Coefficient	Value
Mapped MCE Spectral Response Acceleration at Short Periods, S _S	1.61
Mapped MCE Spectral Response Acceleration at a Period of 1 second, S ₁	0.61
Site Class	D
Fa Factor	1.00
Fv Factor	1.50
Long-period Transition Period, T _{L (seconds)}	8.0
Mapped MCE, 5% Damped, Spectral Response Acceleration at Short Periods Adjusted for Site Class Effects, $\rm S_{MS}$	1.61
Mapped MCE, 5% Damped, Spectral Response Acceleration at a Period of 1 second Adjusted for Site Class Effects, S _{M1}	0.92
Mapped Design, 5% Damped, Spectral Response Acceleration at Short Periods, \mathbf{S}_{DS}	1.08
Mapped Design, 5% Damped, Spectral Response Acceleration at a Period of 1 second, $S_{\rm D1}$	0.61

5.1.3 Liquefaction and Seismically-Induced Settlements

Liquefaction is a phenomenon whereby saturated granular soils lose their inherent shear strength due to increased pore water pressures, which may be induced by cyclic loading such as that caused by an earthquake. Low relative density granular soils, shallow groundwater, and long duration and high acceleration seismic shaking are some of the factors favorable to cause liquefaction. Liquefaction is generally considered possible when the depth to groundwater is within about 50 feet from the ground surface.

For liquefaction potential and seismic-induced settlement evaluation purposes, the peak ground accelerations (PGAs) under both levels of ground motions generated by a magnitude 7.1 earthquake from the controlling NISZ as summarized in Table 5-1 were utilized. The liquefaction potential of subsurface soils was evaluated using the procedures outlined by Seed et al. (1983) and updated by NCEER (1997) and Youd et al. (2001). Liquefaction analysis was performed using SPT data from borings. Seismically-induced settlement of saturated soils was estimated using the simplified procedures developed by Tokimatsu and Seed (1987). In these procedures, the correlation of cyclic stress ratio with SPT blowcounts of sands was used to estimate the settlement of saturated sands. The SPT values were adjusted for fines using the correction values





recommended by Seed (1987) for post-liquefaction conditions and Idriss' equations for non-liquefiable soils (Youd et al., 2001).

5.1.3.1 Aviation Boulevard/Harbor S/D Segment

After our liquefaction screening and analyses, we concluded that the liquefaction potential for the Aviation Boulevard/Harbor S/D segment is low. Our conclusion is consistent with the CGS Seismic Hazard Zones Map of Inglewood and Venice Quadrangles (Figure 5-27), which indicates that the Aviation Boulevard/Harbor S/D segment is not located in an area that may contain liquefiable materials. Seismically induced settlements are anticipated to be negligible.

5.1.3.2 Florence Avenue/Harbor S/D Segment

Groundwater is a pre-requisite for the occurrence of liquefaction. As discussed in Section 3.4, the highest historical groundwater elevation is approximately 95 feet below existing grade along this segment. Consequently, the potential for liquefaction within the Florence Avenue/Harbor S/D segment is considered very low. Our conclusion is consistent with the CGS Seismic Hazard Zones Map of Inglewood Quadrangle (Figure 5-27), which indicates that the segment is not located in an area that may have liquefaction potential. Seismically induced settlement is expected to be negligible.

5.1.3.3 Crenshaw Boulevard Segment

The north end of the Crenshaw Boulevard segment is mapped on the Seismic Hazard Zones map of Inglewood and Hollywood as having a liquefaction potential (Figure 5-27). We performed a detailed liquefaction potential analysis. Our results indicate that, though the segment is not anticipated to be liquefiable under the ODE, it has a high potential of liquefaction under the MDE. A summary of potentially liquefiable layers and the estimated seismic-induced settlements under the MDE are presented in Table 5-4. The potentially liquefiable layers are also shown on the Subsurface cross-section in Appendix B. Seismic-induced settlements on non-liquefiable soil layers is expected to be negligible.

Table 5-4 - Summary of Liquefiable Layers and Seismic Induced Settlements Under MDE

Boring No.	Approx. Station	Approx. GSE (ft)	Design GWE (ft)	Liquefiable Layer Elevation (ft)	Estimated Seismic- Induced Settlement (inches)
R-10-046	393+50	132.9	122.0	117.9-107.9	1.6
R-10-049	416+20	115.7	105.0	105.7-100.7	0.5
R-10-050	424+35	115.0	105.0	105.0-100.0	0.5
A-10-051	431+00	114.2	104.0	104.2-99.2	1.5
R-10-052	438+50	113.2	103.0	83.2-78.2	1.0
R-10-053	448+42	113.0	103.0	98.0-93.0	0.7
K-10-055	440+42	113.0	103.0	88.0-83.0	1.0



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As liquefaction is expected to occur only under the MDE level of ground motion and design policy of Metro for structures under the MDE is 'non-collapse', mitigation measures under such condition may not be necessary. The liquefiable layers are generally found to be located in the vicinity of the crown of the proposed tunnel, the tunnel designers may have to consider the effect of stress relaxation on the tunnels and impact on tunnel portals.

5.1.4 Fault Rupture

As discussed in Section 4 of this report, two active faults cross the Florence Avenue/Harbor S/D Segment. An underground structure is proposed where the Inglewood fault (part of NISZ fault system) crosses the site. At the location of the Potrero fault, the proposed alignment is at-grade. The Metro Rail Design Criteria requires that a site-specific surface fault rupture displacement hazard (SFRDH) to be evaluated for future displacements. The SFRHD study should be performed in accordance with the procedures outlined in CGS Note 49 (2002). If a fault trace is identified during field investigation, a minimum horizontal setback distance of 50 feet from the fault should be considered as having potential of SFRDH.

Although future rupture displacement can be estimated based on observations of historic movements, there was no unequivocal surface displacement of the last NISZ rupture during the 1933 Long Beach earthquake. So there is no record of how much displacement to be expected during its maximum earthquake. As a result, we estimated the amount of displacement by the empirical Wells and Coppersmith (1994) relationship recommended by the Metro Rail Design Criteria, which relates rupture displacements with earthquake magnitudes using a worldwide earthquake database. By this empirical relationship, a magnitude 7.1 earthquake originated from the NISZ is estimated to be capable of causing an average displacement of about 3.5 to 4 feet. Although the NISZ is primarily a strike-slip fault, there also appears to be some vertical displacements locally along both the Inglewood fault and the Potrero fault. With a generally accepted ratio of 80 (horizontal) to 20 (vertical) for the NISZ, the horizontal and vertical component of displacement is estimated to be about 3.0 feet and 0.7 feet, respectively. For seismic design, both vertical and horizontal components of displacement should be considered. On the next phase of design a probabilistic fault displacement hazard analysis (PFDHA) will be used. The PFDHA relates the occurrence of fault displacement to the occurrence earthquakes in much the same manner as is done in a standard probabilistic seismic hazard analysis for ground shaking, or is based on measured displacements and recurrence intervals from a specific site. The PFDHA method would most likely result in smaller design displacement values than the deterministic methods. We recommend a PFDHA for the Preliminary Engineering phase and a more detailed discussion of the proposed PFDHA is provided in Section 5.11.2.

Currently, a limited fault rupture study of the NISZ fault system is being undertaken for the Florence/La Brea station. The fault study is limited to the area within the baseline configuration location and its alternative site to the west and east of La Brea Avenue, respectively. The purpose of this study is to clear the alternative station site of any hazardous faulting while confirming the presumption that the active trace of the Inglewood segment of the NISZ crosses the corridor to the west of La Brea Avenue as indicated on the Alquist-Priolo Zone Map (Figure 4-4). The findings of this study will be presented in an addendum report.





5.2 Slope Stability

We do not anticipate significant permanent unsupported cut or fill slopes for the project because of the limited ROW and the project alignment is located in a low-lying terrain. Permanent slopes properly constructed at a gradient of 2:1 (horizontal to vertical) are generally stable under both static and seismic loading condition. A site-specific global slope stability analysis should be performed on the most critical sections of supported and unsupported slopes in the next design phase. The analysis should include both static and pseudo-static condition with appropriate groundwater level and shear strength parameters based on laboratory testing results and common correlations to shear strength. A horizontal ground acceleration based on the Metro Design Criteria should be used in the pseudo-static analysis. The assessment should adopt minimum factors of safety of 1.5 for static conditions and 1.1 for pseudostatic conditions. If the factor of safety under seismic condition is found to be below 1.1, a Newmark-type of analysis to estimate the slope displacement should be performed.

5.3 Settlement

Substantial amount of embankment fill will be required for the construction of the approaches to the proposed bridge structures of the Aviation Boulevard/Harbor S/D and Florence Avenue/Harbor S/D segments. Soil below these segments generally consists of marginally medium dense sand and medium stiff clay. Placement of embankment fill can cause measurable ground settlement on order of 3 to 4 inches within these relatively compressible materials. This magnitude of settlement is enough to trigger downdrag load on proposed deep foundations at abutments. To evaluate its impact, a detailed settlement analysis should be performed along the project alignment under various heights of embankment fill during the next design phase. However, as groundwater is estimated to be relatively deep below the existing grade along these segments, the majority of the ground settlements is expected to be results from immediate settlement and is expected to be completed during construction. The settlement period is estimated to be within 30 days. For the present design phase, the impact of ground settlements on finished track bed can be neglected. If settlement under static conditions is found beyond the tolerance of the earth retaining structures, mitigation measures should be evaluated in the next design phase.

5.4 Scour

The project corridor does not cross a creek or channel. As a result, scour is not considered a design issue for the project.

5.5 Soil Corrosivity

Soil samples were tested for minimum resistivity, pH, soluble sulfate content, and soluble chloride content. Results are summarized in Table 5-5.





Table 5-5 – Laboratory Corrosion Test Results

Boring No.	Sample No.	Approx. Depth (ft)	Predominant Soil Type	Minimum Resistivity (ohm-cm)	рН	Sulfate Content (ppm)	Chloride Content (ppm)
R-10-002	S7	35	CL	1,050	7.9	120	348
A-10-003	B0	10-15	CL-SC	2,600	6.9	402	216
A-10-003	B1	20-30	SP-SM	13,000	7.7	142	189
A-10-007	В0	5-10	CL	4,100	7.3	85	137
A-10-007	B1	12-17	SC	2,200	7.9	187	205
R-10-008	S9	45	CL	1,500	8.5	40	326
A-10-009	D16	80	CL	830	7.1	25	416
A-10-010	В0	0-8	CL-ML	2,900	7.5	63	213
A-10-015	В0	5	CL	1,100	7.8	63	65
A-10-015	S3	15	SM	2,900	8.5	230	213
A-10-016	В0	3-5	SC	730	7.2	150	276
A-10-016	B4-2	20	SM	2,500	8.0	181	66
R-10-016	D10	50	CL	1,200	8.5	50	290
R-10-018	D2	10	CL	750	8.5	570	308
R-10-018	S5	25	SM	2,500	8.7	50	174
R-10-021	В0	1-5	SC	2,100	7.4	84	70
A-10-029	В0	5	CL	1,800	7.4	60	62
A-10-031	S1	5	SM	3,700	7.8	44	71
A-10-033	В0	3-5	CL	870	8.8	113	232
A-10-033	S11	55	SM	10,000	7.6	31	208
A-10-036	В0	0	CL	1,200	8.9	79	225
A-10-036	D4	20	ML	2,700	8.7	56	238
R-10-039	S5	25	CL	2,900	7.7	79	151
R-10-039	S11	55	CL-ML	2,300	7.7	89	220
R-10-040	D2	10	CL	880	8.6	418	291
R-10-040	S9	45	SM	6,100	8.2	45	152
A-10-041	В0	3-5	SC	1,600	7.6	117	61
A-10-041	S3	15	SC	2,100	7.4	31	72
A-10-041	S11	55	ML	2,900	7.4	49	163
R-10-043	D4	20	ML	2,500	7.2	158	242
A-10-045	S3	15	ML	2,900	7.1	87	134
A-10-045	S7	35	SM	9,000	7.3	45	129
A-10-048	D10	50	SM	5,300	7.2	80	221
A-10-051	В0	0-5	SM	1,000	8.1	1,052	150
R-10-052	D4	20	ML	350	8.0	1,353	527
R-10-052	S11	55	SW-SM	5,300	7.3	199	204

The Caltrans Corrosion Guidelines (2003) considers soil as corrosive if the minimum resistivity is less than 1,000 ohm-cm (as an indicator only), and if the soluble chloride content is higher than



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500 ppm, the soluble sulfate content is more than 2,000 ppm, or the pH is 5.5 or less. Based on the test results and the Caltrans criteria, most of the on-site soils are considered non-corrosive to concrete and metals, except at Boring R-10-052 near the northern project limit. For metals in direct contact with the surrounding soil at this location, sacrificial thickness or special protective coating is required per Caltrans Corrosion Guidelines (2003), Section 10.1. Besides the tabulated results, additional soil samples collected from the ongoing borings will be tested and results of these tests will be included in an addendum report.

5.6 Earthwork

5.6.1 Site Preparations

Prior to general site grading, all existing pavement, undocumented fill (if encountered), and vegetation within the construction areas should be excavated and disposed of outside the construction limits under observation by the Geotechnical Engineer-of-Record. Any debris, deleterious materials, and loose native soil disturbed during site preparation should be removed. All active or inactive utilities within the construction limits should be identified for relocation, abandonment, or in-place protection prior to grading. Any pipes greater than 2 inches in diameter to be abandoned in-place should be filled with sand/cement slurry after inspection and approval by the Geotechnical Engineer-of-Record.

5.6.2 Fill Materials

Approach fill is required to elevate the LRT tracks onto the proposed aerial structures. Locally available sand, gravel, recycled concrete and ballast, if non-contaminated, may be suitable for reuse as fill. Slag is considered an unsuitable material and should not be used as fill material. It should be noted that materials generated from the tunnel excavations within the project limits can be reused as fill materials. Any debris, organic material or other unsuitable material should be removed from the fill materials and disposed of in accordance with applicable requirements of Metro, Caltrans and the City of Los Angeles.

Fill used for structural supports below foundations is considered as structure backfill, and it should conform to Section 19-3.06 of the Caltrans Standard Specifications (2006b), or equivalent. Any fill should be free of rocks or hard lumps of materials in excess of 3 inches in greatest dimension. If import materials are needed, they should conform to Section 19-7.02 of the Caltrans Standard Specifications and should be approved by the geotechnical engineer. Expansive soil should not be placed in embankments at bridge abutments within the limits shown on Figure 5-28.





5.6.3 Placement of Fill

Earthwork should be performed in accordance with Section 19 of Caltrans Standard Specifications (2006b). The new approach fill should be brought up in loose lifts not exceeding 8 inches in thickness. The upper 3 feet of fill and subballast should be compacted to 95% of its maximum density as determined by ASTM D-1557. The remaining approach fill should be compacted to 90% of relative compaction. In all cases where the existing ground surface is steeper than 1:5 (vertical to horizontal), a keyway of 12 feet in width should be excavated at least 2 feet into the existing ground at the toe of the new embankment.

5.6.4 Temporary Excavations and Supports

To design temporary cut slopes, excavations into fill and alluvium of height not more than 20 feet should assume an appropriate Cal/OSHA soil type B or C based on the findings of our field exploration (refer to Appendices B and C for soil types). For temporary excavations exceeding 20 feet in height, the contractor should provide temporary shoring and/or bracing, or other provisions for worker protection during excavations.

Temporary shoring and/or bracing should be adequately designed in accordance with recommendations presented in the California Trenching and Shoring Manual (2000), and requirements of Cal/OSHA, City of Los Angeles, and Metro. Selection of shoring system depends largely upon the acceptance criteria for deflection of the retained excavation and for settlement of ground adjacent to the shoring. The selected system will be subjected to lateral earth pressures from both of the retained earth materials and surcharge loads from the vehicular traffic and structures above. Cantilevered shoring can be utilized if some deflection is acceptable. Where shoring is used to support adjacent traffic or structures and excessive deflection cannot be tolerated, a braced or tieback shoring system should be used. Temporary shoring using soil nails will need to consider right-of-way issues and potential conflict with existing underground utilities. Soil nails are not suitable for some of the soil layers found across the alignment (i.e. medium dense sands and collapsible soils).

For preliminary design, a triangular distribution of active lateral earth pressure of 35 pounds per square foot per foot of depth (psf/ft) can be used for design of cantilever shoring. Open excavation can be supported by an internally braced system where struts are added as excavation proceeded from the top downward. Ground loss is generally minimal in a braced cut, since any deflection toward the excavation side is resisted by the trench box walls or by the struts. Because of the presence of braced walls or struts, and difference in construction sequences, the lateral pressure distribution in a braced system will be different from cantilever shoring. To design the struts and walls retaining drained earth, a trapezoidal distribution of lateral earth pressure (Tschebotarioff, 1973) to a maximum of 28 psf per ft as shown in the California Trenching and Shoring Manual is recommended.

An allowable passive lateral resistance of 700 psf/ft up to a maximum value of 7,000 psf can be used for design of soldier piles founded into competent soils. This recommended passive resistance accounts for soil arching effects acting on an effective width equal to 2.5 times the actual pile width and includes a factor of safety of 1.25.





5.7 Foundations

5.7.1 Foundation Type Selection

Aerial structures are planned along Aviation Boulevard/Harbor S/D between Station Nos. 10+00 and 18+25 (I-105), Station Nos. 65+00 and 74+20 (Century Boulevard), and Station Nos. 117+00 and 125+00 (Manchester Avenue) to grade separate LRT and street traffic. Aerial structures are also planned along the Florence Avenue/Harbor S/D alignment at Station No. 140+00 (La Cienega Boulevard and I-405) and Stations 176+00 through 218+00 (from East Eucalyptus Avenue to east of La Brea Avenue) to grade separate LRT and commuter traffic.

Although detailed structural plans are not available, the aerial structures are expected to be bridge structures with earth retaining systems supporting the approach fills. Foundation type for these structures can depend on various factors besides geotechnical conditions and its selection should be evaluated differently based on site-specific information. The underground structures are planned to be constructed by either bored tunneling or cut-and-cover method. The Metro design criteria for these structures are the latest AASHTO LRFD Bridge Design Specifications (2007) with California Amendments.

5.7.1.1 Earth Retaining Structures

Based on the findings of our geotechnical investigation, the upper soils are generally medium stiff clays and are compressible. We anticipated that bearing capacities for shallow foundations founded into the upper soils will be largely controlled by allowable settlement.

Conventional cast-in-place (CIP) retaining walls are generally designed for 1 inch of total settlement under the fully applied live and dead loads. We estimate that CIP above-grade retaining walls up to 10 feet in height can be supported by shallow foundations with an average of 2 feet of over-excavation. The shallow foundations should have a minimum cover of $1\frac{1}{2}$ feet. For CIP walls higher than 10 feet above grade, a deep foundation or a change in wall type to mechanically stabilized earth (MSE) wall may be necessary.

For U-sections with walls below existing grade, the bearing foundation stratum was pre-loaded with the full depth of excavated soil. The pre-loading serves as a surcharge in eliminating portion of load related settlement. In addition, since soil generally increases in relative density or consistency with depth at the locations of the proposed U-sections based on the findings of our geotechnical investigation, we expect that these below-grade retaining walls can be supported on shallow footings to the planned heights of walls up to 30 feet. The success of a cantilever wall will depend on the tolerance of deflection. For the nearby Alameda Corridor project, ground movement was successfully controlled by installing secant piles braced with a top strut.

MSE wall is particularly suitable for the anticipated subsurface conditions of the project because of its flexibility to allow higher settlement. It is not uncommon for MSE walls to be designed for total settlements up to 4 inches and variable. We estimate that MSE wall up to 40 feet in height can be supported on a roughly 2 feet thick fill blanket. The MSE wall should be embedded a minimum of 2 feet, or 10% of the wall height, whichever is larger, below the lowest adjacent grade. The internal stability of MSE walls depends on the pull-out resistance of the embedded metal straps and is usually evaluated by the MSE wall vendor's designers. Standard designs based on the LRFD method are shown in Caltrans Bridge Design Aids 3-8 (2009) and details on bridge 'XS' Detail Sheets XS-13-020-1 through 6.





5.7.1.2 Buildings, At-Grade Stations and Appurtenant Structures

Conventional shallow foundations are feasible for these lightly loaded surface structures. Our geotechnical investigations at the locations of these surface structures indicate that the upper soils are generally medium stiff to very stiff clays. These clayey soils are anticipated to be moderately expansive based on our laboratory testing. To limit volumetric changes due to surface moisture variations, some remedial grading is necessary if shallow foundations are to be used. We recommend an overexcavation of at least 2 feet below the bottom of footing and replacing the excavated soils with non-expansive granular soils, if the bottom of footing is located within the upper 4 feet of the lowest adjacent finished grade.

5.7.1.3 Bridge Structures

Due to the site's seismicity, high vertical and lateral load demands within the Aviation Boulevard/Harbor S/D segment and Florence Avenue/Harbor S/D segment, deep foundations are anticipated for the aerial structures and elevated stations.

Piling is generally categorized according to its installation method into driven or cast-in-drilled-hole (CIDH) piles. In our opinion, unless it is restricted by environmental regulations because of the noise level and vibration during construction, driven piles appear to be a more suitable pile type than CIDH piles for the corridor due to the following reasons:

- 1. possibility of using battered piles to resist large lateral loads at tall cantilever abutments,
- 2. reliability of pile end bearing without cleanout effort,
- 3. potential of encountering caving soils during drilling of CIDH piles cannot be precluded,
- 4. possibility of future specified pile tip elevations may be below groundwater level,
- 5. no disposal of soil cuttings and groundwater (particularly for areas with potential contaminants) is necessary, and
- 6. pile capacity can be verified by blowcounts and/or pile driving analyzer (PDA).

Among commonly available driven pile types are prestressed precast concrete pile, pipe pile, H-pile, and cast-in-steel-shell (CISS) pile. The prestressed precast concrete pile is regarded as a displacement pile, since it displaces surrounding soils during pile driving. Pipe pile, H-pile and CISS pile are non-displacement piles in this regard until a soil plug is formed. Prestressed precast concrete pile is generally the most economical pile type, while the CISS pile is the most expensive due to the ½ inch to ½ inch thick steel shell commonly used. Small diameter pipe pile is not favorable for the project, since the pile can be easily plugged and refusal can be encountered before reaching the specified pile tip elevations. In addition, the thin pile shell at the pile head is easy to be damaged during hard driving.

Although CIDH piles may have their shortcomings, CIDH piles, particularly large-diameter drilled shafts, can have some distinct advantages over driven piles under the following circumstances:

- 1. restrictive noise and vibration levels during construction in sensitive neighborhoods,
- 2. geometry limitation such as right-of-way or underground utilities to be protected in place that constraints foundation footprint, and
- 3. high lateral pile capacity to resist seismic demand.

Due to the Inglewood fault crossing the proposed alignment near La Brea Avenue, CISS piles may need to be considered for the foundation system of the aerial structure near the Inglewood fault, as CISS piles have a higher tolerance to lateral loading and can protect the concrete core with the steel shell. Large diameter drilled shaft, though lack redundancy, has high pile stiffness





to resist shear and moment generated by the rupture. Small diameter piles are not recommended near the rupture zone.

5.7.2 Preliminary Deep Foundation Recommendations

In order to provide preliminary foundation recommendations for the bridges along the Aviation Boulevard/Harbor S/D segment and the Florence Avenue/Harbor S/D segment, a total of 4 idealized subsurface stratigraphies were developed after generalizing the available boring information. Profile 1 covers the bridge structures at the I-105 and at Century Boulevard. Profile 2 covers the bridge structure at Manchester Boulevard. Profile 3 covers the bridge structures at La Cienega Boulevard, I-405 up to La Brea Avenue. Profile 4 covers the aerial structures east of La Brea Avenue to east of La Brea Avenue.

For Profile 1, two pile types were considered suitable and were selected for analysis: an H-Pile (HP-14x89) and a 24-inch diameter Caltrans standard Class 200 cast-in-drilled-hole (CIDH) concrete pile. Precast prestressed concrete piles were precluded because of potential drivability issue due to the presence of a 15-foot thick layer of very dense sand at approximately 25 feet below ground surface. However, a 14-inch Caltrans standard Class 200 Alternate 'X' precast prestressed concrete (PCC) pile was considered drivable at the Manchester Boulevard grade separation and a preliminary recommendation was included for Profile 2.

For Profiles 3 and 4, four pile types were selected for analysis: an H-Pile (HP14x89), a 24-inch cast-in-steel-shell (CISS) pile, a 24-inch diameter Caltrans standard Class 200 cast-in-drilled-hole (CIDH) concrete pile, and a 14-inch diameter precast prestressed concrete (PCC) pile.

5.7.2.1 Axial Capacity

The load demands used on the analyses for the Caltrans Standard piles were the nominal structural capacities of the piles. The HP14x89 and Caltrans standard Class 200 PCC or CIDH piles are designed for standard nominal capacity of 400 kips in compression and 200 kips in tension. The CISS pile is a non-standard Caltrans pile and its nominal capacity will vary according to structural design details. Four charts for nominal downward (compressive) capacities are presented (Figures 5-29 to 5-32) to aid preliminary pile design for structures within the described profiles. The preliminary upward (tension) resistance can be taken as 50% of the downward resistance. For drilled shaft with diameter other than 24 inches, the downward capacity is directly proportional to its pile size.





5.7.2.2 Lateral Pile Capacity

The lateral solutions with a free-head condition were estimated using the computer program LPILE (Reese et al, 2004). Our lateral capacity analyses have included group effect for the proposed piles by using an average 'p-multiplier' of 0.65 for assumed pile spacing of 3-times pile size. The results are tabulated in Tables 5-6 and 5-7.

Table 5-6 - Lateral Pile Capacities for Profiles 1 and 2

Location	Lateral Displacement at Top of Pile (in)	Lateral Load at Top of Pile (kips)	Max. Bending Moment (kip-in)	Depth from Pile Head to Max. Moment (ft)
		Profile 1		
	1/4	14.9	700.0	6.8
HP-14x89	1/2	20.5	1116.9	7.7
	1	28.1	1783.7	8.6
	1/4	22.9	864.2	5.9
24-inch CIDH	1/2	31.3	1368.8	6.8
	1	42.6	2168.9	7.7
		Profile 2		1
	1/4	12.3	408.1	4.5
14-inch PCC	1/2	16.7	650.1	5.0
	1	22.3	1042.1	6.0
	1/4	19.4	821.1	6.2
HP-14x89	1/2	26.7	1306.2	7.2
	1	36.6	2080.3	8.2
	1/4	22.9	865.5	6.0
24-inch CIDH	1/2	31.3	1367.8	6.5
	1	42.7	2173.0	7.5
	1/4	38.8	2213.9	9.0
24-inch CISS	1/2	53.6	3511.3	10.0
	1	74.1	5579.1	11.0





Table 5-7 - Lateral Pile Capacities for Profiles 3 and 4

Location	Lateral Displacement at Top of Pile (in)	Lateral Load at Top of Pile (kips)	Max. Bending Moment (kip-in)	Depth from Pile Head to Max. Moment (ft)
		Profile 3		
	1/4	14.5	449.4	4.4
14-inch PCC	1/2	19.7	715.6	4.8
	1	26.4	1143.1	5.6
115 44 00	1/4	22.7	901.5	5.9
HP-14x89	1/2	31.2	1433.8	6.8
	1	42.8	2284.2	7.7
	1/4	26.8	954.2	5.6
24-inch CIDH	1/2	36.7	1506.0	6.5
	1	50.0	2385.4	6.9
	1/4	45.2	2429.3	8.5
24-inch CISS	1/2	62.4	3843.5	9.5
	1	85.8	6056.3	10.5
		Profile 4	•	
	1/4	14.5	448.9	4.6
14-inch PCC	1/2	19.7	716.1	4.9
	1	26.4	1141.4	5.7
	1/4	22.6	896.3	6.0
HP-14x89	1/2	31.0	1421.3	6.9
	1	42.7	2272.7	7.7
	1/4	26.8	951.5	5.6
24-inch CIDH	1/2	36.5	1491.0	6.0
	1	49.8	2366.2	6.9
	1/4	44.8	2388.3	8.4
24-inch CISS	1/2	62.2	3821.7	9.6
	1	85.9	6072.8	10.8





5.7.3 Preliminary Shallow Foundation Recommendations

5.7.3.1 Allowable Bearing Capacity

An allowable bearing capacity of 2,000 pound per square foot (psf) can be used for design of spread and continuous footings of retaining walls, buildings, at-grade stations and appurtenant structures with a minimum width of 24 inches bearing at least 18 inches into an engineered fill. The engineered fill should be at least two (2) feet below the footing bottoms and should extend at least 5 feet beyond the outside edges of foundations, or equal to the depth of fill, whichever is greater. All exterior footings should be founded at least 18 inches below the lowest adjacent grade, or 18 inches below the top of slab for interior footings.

The given allowable bearing capacity is a net value and has included a safety factor of 3. The weight of the footing and the backfill over the foundation may be neglected when computing dead loads. The recommended bearing value can be increased by one-third for momentary wind or seismic loads. Edge pressure due to any eccentric load should not exceed the bearing values given for permanent and temporary loads.

Total settlement of footings up to a width of 7 feet is estimated to be less than 1 inch under the recommended fully applied bearing pressure. Differential settlement between new footings is not expected to exceed ½ inch.

5.7.3.2 Lateral Load Resistance

Resistance to lateral loads may be provided by frictional resistance between the bottom of concrete footings and the underlying soils, and by passive soil pressure against the sides of the footings. The allowable coefficient of friction between poured-in-place concrete footings and the underlying native soils may be taken as 0.30. The allowable passive pressure can be taken as 250 psf per foot of depth to a maximum value of 2,000 psf. The recommended allowable values have included a factor of safety of at least 1.5. The frictional and passive pressure resistance may be used in combination without reduction.

5.7.3.3 Slab-on-Grade

Slabs-on-grade should be supported on a minimum of 2 feet of non-expansive engineered fill. Slabs-on-grade used to support floor loads should be a minimum of 4 inch thick and reinforced with No. 4 bars spaced at 18 inches on-center each way. The structural engineer's requirements should be followed if they are more stringent. A moisture barrier is recommended under all floor slabs to be overlain by moisture-sensitive floor covering. A plastic or vinyl membrane may be used for this purpose and should be placed between two layers of moist sand, each at least 2 inches thick, to promote uniform curing of the concrete and to protect the membrane during construction.

For design of slabs and hardscape, a modulus of subgrade reaction (k) of 100 pounds per square inch per inch of deflection (pci) may be used for estimating deflections.

5.8 Abutment Wall Resistance

The ultimate passive pressure behind the proposed abutments may be estimated as recommended in Section 7.8 of the Caltrans Seismic Design Criteria (SDC, 2006c). A uniformly distributed,





ultimate passive resistance can be calculated using Equation 7.44 from the SDC to a maximum of 5 kips per square foot (ksf) in resisting movement at the abutment walls. However, this given value assumes that the back wall of the abutment will break off during the design seismic event and it would not be suitable for an ODE-level design.

For design under ODE, a value of 200 kips per inch per foot of wall can be used for the lateral stiffness of the abutment as per Caltrans SDC. In addition, a maximum lateral stiffness of 40 kips per inch of deflection can be assumed for each abutment pile.

5.9 Lateral Earth Pressures

Pressures in the form of an equivalent fluid pressure (based on a bulk soil unit weight of 120 lb/ft³) as shown in Table 5-8 may be used to estimate lateral earth pressures against abutments and retaining walls exerted by structure backfill.

Table	5-8 _	Lateral	Farth	Pressures
rabie	2-0 –	Lateral	carrn	Pressures

Backfill Inclination	Lateral Earth Pressure Condition		Equivalent Fluid Weight (lb/ft ³)
	Act	tive	35
Level	At-rest		55
Levei	Seismic ¹	ODE	5
	Seisifiic	MDE	20

Notes:

The active lateral earth pressure should be used when the retaining walls can be assumed to be free-standing and unrestrained; while the at-rest lateral earth pressure is suitable for walls which are restrained from rotation. An additional seismic lateral earth pressure in the form of an inverted triangle as presented in Table 5-8 should be added to the design static active earth pressure under each level of ground motion.

The recommended values presented in Table 5-8 do not include other surcharge loads resulting from foundations, structures, and traffic. A Cooper E-80 loading should be included as surcharge in the calculation of lateral earth pressure at locations where it is applicable. Lateral pressures resulting from a uniform vertical surcharge behind the wall should be added as a horizontal pressure with a rectangular distribution and calculated using a lateral earth pressure coefficient of 0.30 for the abutment walls and the retaining walls. Surcharges that are set back behind the wall a horizontal distance greater than the exposed wall height do not need to be added to the design pressures.

These values do not include hydrostatic forces (e.g., standing water in the backfill material). Weepholes and a wall drain with filter/drainage materials should be provided similar to those shown on Caltrans Standard Plans. Prefabricated drain composites may be substituted subject to approval by the Engineer. Excessive groundwater, existing or proposed water bearing utilities, and/or surface conditions that could require subsurface drainage beyond that shown on the Standard Plans were not encountered or known to be planned as part of the project.



^{1.} The additional active pressure distribution due to earthquake loading is in the form of an inverted triangle.



5.10 Construction Considerations

5.10.1 Cast-In-Drilled-Hole (CIDH) Piles

- 1. For on-center pile spacing less than six times the pile diameter, no two adjacent piles should be constructed concurrently.
- 2. Loose soils should be removed from the bottom of the pile boreholes using a cleanout bucket.
- 3. Pile boreholes should be inspected and approved by the geotechnical engineer prior to the installation of reinforcement. Extreme care in drilling, placement of steel, and the pouring of concrete is essential to avoid excessive disturbance of pile boring walls.
- 4. Concrete placement by pumping or tremie tube to the bottom of the pile borings is recommended. Specifications should require that sufficient space be provided in the pile reinforcing cage during fabrication to allow the insertion of a tremie tube for concrete placement. The pile reinforcing cage should be installed and the concrete pumped immediately after drilling is completed.
- 5. Sandy soils were encountered and these materials are susceptible to caving. If caving occurs, a temporary casing or wet construction method may be required during construction. Casings should have an outer diameter equal to or exceeding the pile diameter. Temporary casing should be placed tight-in-hole. Vibratory or impact hammer with or without center-relief drilling can be used to install the temporary casing provided the existing structure is monitored for potential movement due to ground vibration; casing installation using this method should be suspended if excessive movement is detected. The temporary casing should be retrieved as the concrete is being poured, while always maintaining at least a 5-foot head of concrete inside the casing.
- 6. Groundwater may be encountered during drilling along the Aviation Boulevard/Harbor S/D segment and wet method of construction may be necessary. As a minimum requirement, Gamma-Gamma testing should be performed to detect anomaly in concrete for CIDH piles installed below water. Equally spaced 2-inch diameter (Schedule 40) PVC access tubes should be pre-installed in CIDH piles to facilitate Gamma-Gamma logging. Since Gamma-Gamma logging tests anomalies generally around the PVC tubes, Cross-hole Sonic logging can be performed as a complementary test for anomaly between tubes so that if any anomaly is found, its limits can be more precisely determined.
- 7. Metro Rail Design Criteria requires that at least one pile load test to be performed for all CIDH piles at each bridge site regardless of pile sizes with a maximum horizontal distance of 5,000 feet between test locations along the guideway alignment.

5.10.2 Driven Piles

1. Piles should be driven at least to the specified tip elevation and the bearing value should be checked with the pile-driving formula given in Section 49-1.08 of the Caltrans Standard Specifications (2006b) or by the use of a pile driving analyzer (PDA). However, if the specified tip elevation is reached without achieving the design load, pile driving should continue until bearing is attained. In this case, pile setup may not be significant due to the sandy nature of the subsurface materials.





- 2. The selected pile-driving hammer such as diesel-type hammers should be able to deliver sufficient energy to drive the piles at a penetration rate of not less than 1/8 inch per blow at the required bearing value. Vibratory hammers are not allowed for pile installation.
- 3. Drivability of piles was considered for the bridge sites. Based on the available soil boring data, contractor should be prepared for hard driving conditions for concrete piles. To ensure a proper execution during construction, the geotechnical engineer should review the driving equipment and method proposed by the contractor.
- 4. Driving piles will generate vibration and noise in the surrounding areas. The contractor should be ready to monitor vibration and noise levels per agency standards.

5.10.3 Trenching and Tunneling

Trenches, bore-tunnels and cut-and-cover type tunneling for the project corridor will be designed by HMM. The following items are provided for consideration in future design and construction:

- 1. Tunneling in developed urban areas may be conflicted with underground utilities and existing foundations.
- 2. Although static groundwater was encountered at elevations of approximately 80 to 60 feet (approximately 51 to 97 feet below existing grade), a perched water condition was observed at higher elevations within borings between 38th Street and Exposition Boulevard at levels of approximately 90 to 100 feet (approximately 16 to 24 feet below existing ground surface). This is evident from the results of laboratory moisture content tests on samples collected from these borings. The hydrostatic pressure and rate of seepage from the perched water should be considered in the design and construction of tunnel lining.
- 3. If significant dewatering becomes necessary during construction, its geotechnical consequences such as settlement, etc. should be considered in design of the dewatering scheme.
- 4. Although contaminants were detected in some tested soil and water samples, the concentration levels are well below agency action levels.
- 5. The on-site soils are not corrosive to both concrete and metals. No mitigation measure is necessary for protection against corrosion.
- 6. Granular soils with weak cementation were observed within pertinent depths of the bored tunnel construction during our field investigation. These materials are generally susceptible to caving. Although our method of drilling precludes the investigation of caving potential, laboratory strength tests and gradation analyses are included in this report to assist the tunnel designers in selection of a suitable tunnel lining.
- 7. We expect that conventional shoring system is feasible for supporting the temporary excavations at the cut-and-cover section of the project. Selection of shoring system, if needed, depends largely upon the acceptance criteria for deflection of the retained excavation and for settlement of ground adjacent to the shoring. Cantilevered shoring can be utilized if some deflection is acceptable. Where shoring is used to support adjacent traffic or structures and excessive deflection cannot be tolerated, a braced shoring system should be used.
- 8. Although the determination of rippability of subsurface materials is mostly empirical in nature, standard references such as those of the Caterpillar Company have attempted to correlate rippability with seismic wave velocities. The shear wave velocities measured from the P-S seismic downhole logging indicated that the subsurface soils within pertinent depths





of construction are readily rippable with a proper choice of equipment. Results of the geophysical survey are also confirmed with SPT blowcounts recorded during drilling.

5.11 Additional Work

5.11.1 Project-Wide

Our field investigation planned for this Conceptual Engineering Phase consists of exploratory locations spaced at a horizontal distance of approximately 800 to 1600 feet along the project segment. The exploration was made for the purpose of developing a geologic profile and collecting samples for laboratory testing to identify critical geotechnical and environmental conditions or constraints. This frequency of exploration is generally considered inadequate for design purposes. In addition to our current unfinished exploration, in preparing the final recommendations for this project, the following tasks are recommended for the next design phase:

- Additional field exploration and laboratory testing to fill information gaps. The exploratory locations for the below-grade structures are tentatively planned at a depth of 100 feet spaced at a horizontal distance of about 300 feet from the locations explored in the current program. One 100 feet deep boring or CPT is planned at each support of the proposed aerial structure. For at-grade alignment and structures, borings to a depth of 30 feet are planned at horizontal spacing of 500 feet from the recently explored locations. For the maintenance facility, five (5) borings or CPTs within the building footprints to depths ranging from 30 to 50 feet should be planned.
- Additional Packer tests and Pressuremeter tests in the areas of the proposed tunnels.
- Additional geophysical evaluation of shear wave velocities of subsurface materials using P-S logging methods to fill information gaps.
- Additional liquefaction analyses with information from additional site exploration in areas of interest.
- Site-specific foundation analyses with structural loads and types.
- Selection of most adequate acceleration response spectra for the individual segments.

5.11.2 Fault Study

More-detailed investigations will be needed to refine the locations of the main faults and to determine if any of the other smaller faults within the NISZ represent a significant potential surface-rupture hazard to proposed structures. For example, a relatively small northeast trending branch of the NISZ called the Reservoir fault may have been involved in the catastrophic failure of the Baldwin Hills reservoir in 1963. We propose the following tasks for the next design phase for more detailed evaluation of the two fault zones that cross the Florence Segment:

- LITERATURE REVIEW. More-detailed review of published information is also warranted. Some of these reviews would be to collect more obscure data on the faults from available unpublished sources such oil-field data, consultant's reports, and university research.
- AERIAL PHOTOGRAPH ANALYSIS. An aerial photograph investigation should be the one of the first of any future investigations and should be undertaken at soon as





possible. Aerial photograph have been proven to be an invaluable tool for identifying fault locations. The best aerial photographs for fault analysis in urban environments are "old" photographs. The first aerial photographs that were flown in a systematic grid pattern so as to allow stereographic viewing (i.e. three-dimensional) were done in the late 1920's and early 1930's. These old photographs are best because they were taken when the area was not as highly urbanized as it is today, and therefore they show the ground surface in a closer-to-natural state than more-recent photographs providing clearer evidence of possible surface fault ruptures.

- GEOLOGICAL MAPPING. Geological field "mapping" should be undertaken after the aerial-photograph analysis. The proposed geological mapping would be of a reconnaissance level because the area is fairly well developed and there are few natural exposures. The primary purpose of this effort is to check geomorphic anomalies related to faulting identified on aerial photographs and topographic maps. Also, the nature of surficial geologic formations shown on published geological maps could be compared to the subsurface data from the borings drilled along the corridor to evaluate whether there are any correlations that might help predict or assess engineering properties between boreholes. The field reconnaissance will also provide information on locations that might be suitable for future fault trenching and or geophysical surveys.
- GEOPHYSICS. Near-surface seismic surveys can provide additional clarity to the current subsurface interpretation before any seismic trenching is planned. Geophysical investigations in the form of a) seismic-reflection profiling, b) surface wave/shear wave, and c) borehole down-hole P & S wave logging will be invaluable for helping to assess the surface fault-rupture potential. Perhaps the best data would come from seismic reflection profiling. This method has already been proven to be effective for detecting faults of the NISZ. For example, the Potrero fault at a site just southeast of the project corridor was clearly imaged. A seismic-reflection survey should consist of at least two parallel lines about 6000-7000 feet long. This would cross both AP faults and any faults in between. It is important to investigate more than just the two AP faults because other investigations and oil field data indicate there are several subparallel as well as cross trending faults within the NISZ (e.g. Hamilton and Mechan, 1971). Down-hole P & S wave and/or surface-wave data may be needed to get seismic velocity data that will help determine the depths to seismic reflectors which in turn is important for assigning ages to the reflectors. Some P & S wave data are available from existing borings and these need to be compiled for the areas of the fault crossings.
- TRENCHING. Extensive urban development has already made successful seismic trenching studies difficult, if not highly unlikely. If the location of fault zones can be identified from the near-surface seismic surveys, a minimum of two (2) seismic trenches should be planned on both sides of Florence Avenue. Trenching is the ultimate and most-definitive method for identifying hazardous faults. Trenches dug across faults can range from simple, shallow (10 feet) excavations dug by a small backhoe to wide (50 feet), deep (25-30 feet), benched excavations dug by a large excavator. Site conditions dictate the best approach. The dense urban development in the fault crossing areas may not allow effective trenching. Preliminary review indicates there are some vacant lots in the fault crossing area where trenches could be excavated if encroachment permits could be obtained. Like the drilling, these investigations would be done later in the project once specific structure sites have been chosen. Soil samples collected from seismic trenches within the potential fault zone should be collected for carbon dating to determine age of activity.





- BORINGS. As the depth of investigation by trenching is limited, closely spaced borings can also be used in case that the NISZ is concealed. Soil samples collected from the borings within the potential fault zone should be collected for carbon dating to determine age of activity. More boreholes may be needed to refine the location and nature of faults. Most of the existing borings are probably too widely spaced to yield useful data. Closely spaced, continuously cored boreholes or cone penetrometer soundings (CPT) could help identify a) fault locations, b) widths of fault disturbance, and c) degree of deformation. Some borings should be drilled at an angle to ensure that the boring intersects the faults. Closely spaced CPTs have proven to help identify the location of faults in some cases. Spacing of CPTs might be on the order of 25 to 50 feet initially depending on the specific type of structures and the preliminary fault data. CPTs may be a cost-effective way to narrow the possible locations of faults so that angled coreholes or trenches could be more precisely placed. This could greatly reduce the cost of the more-expensive corehole drilling and trenching. Drilling would probably best be done after the more-detailed project layouts have been finalized.
- SFRDH STUDY. A site-specific study for the NISZ should be performed in accordance with CGS Note 49 (2002).
- EMPIRICAL FAULT DISPLACEMENT ANALYSIS. In the event that faults cannot be effectively identified and characterized, or discounted completely, it may become necessary to base design criteria on theoretical or empirical data. If reasonable estimates of likely fault displacement amounts or the recurrence intervals between surface-rupture events cannot be made with confidence, it may be necessary to base the design values on comparison to what has happened historically on other faults and earthquakes in similar seismotectonic environments. This is a relatively common approach but commonly results in very conservative estimates that may require very expensive design that would exceed the cost of the investigations summarized above. There are two basic approaches to this type of evaluation, 1) deterministic approach, and 2) probabilistic approach. The deterministic evaluation is basically a worst-case scenario and would result in design fault displacement values approximately in the 3 to 6 feet range. The probabilistic fault displacement hazard analysis (PFDHA) relates the occurrence of fault displacement to the occurrence earthquakes in much the same manner as is done in a standard probabilistic seismic hazard analysis for ground shaking, or is based on measured displacements and recurrence intervals from a specific site. The PFDHA method would most likely result in smaller design displacement values than the deterministic methods. but would require specific acceptance by the regulating agency because there are no widely accepted standards. We have successfully applied these methods to other projects.

Some of these possible methods of investigation should be undertaken before specific design becomes too advanced, whereas other investigations might be better if left to a later date when plans are more definite. Some early investigations might provide information that would allow the location of some structures to be modified slightly to avoid direct rupture affects.





6 LIMITATIONS

This report is intended for the use of HMM and Metro. This report is based on the project as described and the information obtained from the exploratory borings at the approximate locations indicated on the attached plans. The findings and recommendations contained in this report are based on the results of the field investigation, laboratory tests, and engineering analyses. In addition, soils and subsurface conditions encountered in the exploratory borings are presumed to be representative of the project site. However, subsurface conditions and characteristics of soils between exploratory borings could vary. The findings reflect an interpretation of the direct evidence obtained. The recommendations presented in this report are based on the assumption that an appropriate level of quality control and quality assurance (inspections and tests) will be provided during construction. EMI should be notified of any pertinent changes in the project plans or if subsurface conditions are found to vary from those described herein. Such changes or variations may require a re-evaluation of the recommendations contained in this report.

The data, opinions, and recommendations contained in this report are applicable to the specific design elements and locations which are the subject of this report. They have no applicability to any other design elements or to any other locations and any and all subsequent users accept any and all liability resulting from any use or reuse of the data, opinions, and recommendations without the prior written consent of EMI.

Services performed by EMI have been conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended.



PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT PROPOSED ALIGNMENTS FOR THE CRENSHAW-PRAIRIE TRANSIT CORRIDOR PROJECT LOS ANGELES COUNTY, CALIFORNIA

Prepared For:

Metropolitan Transportation Authority

One Gateway Plaza, 12th Floor Los Angeles, California 90012-2932

Project No. 602019-002

May 22, 2008





May 22, 2008

Project No. 602019-002

To: Metropolitan Transportation Authority

One Gateway Plaza, 12th Floor

Los Angeles, California 90012-2932

Attention: Ms. Chris Long

Subject: Phase I Environmental Site Assessment Report, Crenshaw-Prairie Transit

Corridor Project, Los Angeles County, California

Leighton Consulting, Inc. (Leighton Consulting) is pleased to present this Phase I Environmental Site Assessment Report for the subject property.

Leighton Consulting has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. Leighton Consulting has developed and performed the all appropriate inquiries in conformance with the standards and practices prescribed in ASTM International (ASTM) E1527-05.

If you have any questions regarding this report, please do not hesitate to contact me. We appreciate the opportunity to be of service.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

Meredill Church

Meredith Church, PG Project Geologist

Distribution: (3) Addressee



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EXECUTIVE SUMMARY

Leighton Consulting, Inc. (Leighton Consulting) performed a Phase I Environmental Site Assessment (ESA) of the Proposed Alignments for the Crenshaw-Prairie Transit Corridor in Los Angeles and Inglewood, Los Angeles County, California. The Crenshaw-Prairie Transit Corridor study area extends approximately ten miles and 33 square miles from Wilshire Boulevard on the north, to El Segundo Boulevard on the south. Several alignment alternatives are currently being considered, and are collectively referred to as the "subject property" (Figure 1, Site Location Map). The purpose of this ESA was to attempt to identify, to the extent feasible pursuant to the processes prescribed in ASTM International (ASTM) E1527-05, recognized environmental conditions (RECs) in connection with the subject property. Exceptions to, or deletions from, this practice are described in Section 1.5 of the Phase I ESA report. The scope of work for this Phase I ESA included: records review; site reconnaissance; interviews; and report preparation.

On February 12, 14, 26, 27, and March 3, 2008, representatives of Leighton Consulting, conducted a reconnaissance—level assessment of the subject property. The site reconnaissance consisted of the observation and documentation of existing subject property conditions and nature of the neighboring property development within 0.25-miles of the subject property. Photographs of the subject property are presented in Appendix B and their view directions are noted on Figures 4a through 4d, Environmental Concern Location Map. Leighton Consulting was provided access only to the railroad and street right-of-ways. Access was not provided on any properties located adjacent to the right-of-way and these properties were only inspected from the property boundaries. Fences, vegetation, buildings, etc. limited the observations on many of these properties.

Historical information was obtained from a review of aerial photographs, Sanborn maps, and historical topographic maps. This review was conducted only on the railroad and street right-of-ways and adjacent sites. Based on historical records, the subject property has consisted primarily of streets and a rail road right-of-way at least since the 1890s. The affected parcels at Venice Boulevard and Crenshaw Boulevard have been used for residential purposes since at least the 1920s. The affected parcels at San Vicente Boulevard and Venice Boulevard appeared to have been occupied by the Pacific Electric Railroad right-of-way until at least the early 1950s, as well as a lumber company from at least 1926 to 1967, and commercial use until the present. The affected parcels at Crenshaw Boulevard and Exposition Boulevard south to Coliseum Street appeared to have been primarily vacant and possibly used for agricultural purposes from the 1920s to the 1950s, and have been built up with commercial structures from the 1950s through the present, with former businesses including an electronics manufacturing facility, a plastics manufacturing facility, and a gas station, and a dry cleaners. Historical and current use of



adjacent numerous sites used for residential, commercial (including gas stations, dry cleaners, and auto repair facilities), manufacturing, and industrial purposes.

An environmental database report prepared by FirstSearchTM Report was reviewed for local, state, and federal listings for properties within the vicinity of the subject property. Regulatory database lists were reviewed for cases pertaining to leaking underground storage tanks (USTs), hazardous waste sites, and abandoned sites. The database listings were reviewed within the specified radii of a quarter of a mile as requested by Terry A. Hayes Associates LLC (TAHA).

For this study, Leighton Consulting has established classification criteria to assist in identifying the potential impacts of each contaminated or potentially contaminated facility that was identified in the FirstSearchTM environmental database report system, the site reconnaissance, or reviews of other records. Each facility was classified as High, Moderate, or Low with respect to its type of operation, proximity to the subject property, the anticipated hydrogeologic gradient, field observations, and regulatory information. In general, the classification criteria are:

- <u>High</u> facilities with known or probable soil/groundwater contamination (i.e. Leaking Underground Storage Tanks [LUSTs]), and facilities where remediation is incomplete or undocumented, and the contamination is known or suspected to exist on the subject property.
- Moderate facilities with identified or potential soil contamination (i.e. LUSTs), remediation is in progress, or groundwater contamination that does not appear to be migrating and has not been reported on the subject property. Facilities with a heavy industrial/manufacturing background that typically use or have used significant quantities of hazardous materials may also be classified as Moderate.
- <u>Low</u> facilities that have completed remediation or have historically utilized only small amounts of known contaminants (i.e. small quantity generators or underground storage tanks).

The following table summarizes the environmental concerns identified onsite, or associated with the affected parcels, that have a classification criterion of Moderate to High:

Fig #	ID	Sxn	Facility Name/Address	Environmental Concern	Hazard
4a	D	A1	CIM/Pico	4550 Pico Blvd., Los	Moderate
			Former Lumber Company &	Angeles (LA)	
			facilities with Underground	4600-4700 Pico Blvd.,	
			Storage Tanks (USTs)	LA	
4a	Е	A2	Alright Parking Lot/4180 Wilshire	Monitoring wells	High
			Blvd. to 701 Crenshaw Blvd., LA		



Fig #	ID	Sxn	Facility Name/Address	Environmental Concern	Hazard
4a	9	A2	Legal Aid Foundation, 1102 Crenshaw Blvd., LA	Borings	High
4a	14	A2	UC Education Center, 1111 Crenshaw Blvd., LA	Borings	High
4a	F	A2	Chevron Gas Station, 1009 Crenshaw Blvd., LA	Monitoring wells	High
4a	I	A1/A2	76 Station, 4176 Venice Blvd., LA	Monitoring wells	High
4a	M	A1/A2	Arco, 3400 Crenshaw Blvd., LA	Monitoring wells	High
4a	P	A1/A2	Former Gulf Oil, 3630 & 3644 Crenshaw Blvd., LA	Former gas station, USTs formerly located fronting Crenshaw Blvd.	High
4a	Q	A1/A2	Cameo Cleaners, 3650 Crenshaw Blvd., LA	Dry Cleaners, release of tetrachloroethylene (PCE) and trichloroethylene (TCE)	Moderate
4c	41	C1/C2	Railroad tracks and East of Victoria Avenue, LA	Staining along railroad tracks	High
4c	38, 39	C1	Directly north of railroad tracks, near La Colina Road, Inglewood	Two buckets of oily water near railroad right-of-way	Moderate
4d	SS	C1	Vacant lot, 5600 Arbor Vitae, LA	Monitoring wells	High
4d	53	C1	West of railroad tracks and south of Manchester Boulevard, LA	55-gallon drum tipped over with 1 quart oil cans spilled on ground, some soil staining	High
4d	54	C1	West of railroad tracks between Manchester Boulevard and Westchester Parkway, LA	Fenced storage area with various retail chemical containers such as strippers, paint thinner, and paint. No soil staining observed.	Moderate
4d	61	C1	Adjacent to railroad tracks, west of Cedar Avenue, Inglewood	Asphalt debris pile	Moderate
4d	58	C1	BNSF Railroad Right-of-Way, 550 South of Arbor Vitae, LA	An unknown release of some type appears to have occurred. May have been mitigated.	Moderate

#: Number

ID: Location identification on Figure

Sxn: Proposed alignment section

LA: Los Angeles



The following offsite facilities have a classification criterion of Moderate and High based on the current site usage, former site usage, observed hazards, and/or known releases to the subsurface. Some of these facilities may have obtained closure for previous releases but are still classified as Moderate based on the close proximity to the subject property and the potential for residual contamination. The concerns identified in the previous table, that are on the affected parcels or that are associated with offsite facilities, are also listed in this table.

Fig #	ID	Sxn	Facility Name	Address	Hazard
4a	A	A1	Metropolitan Car Wash	900 La Brea Ave., LA	Moderate
4a	В	A1	Harry's Tow Lot (former KCOP	915 La Brea Ave., LA	Moderate
			Production Studio)		
4a	C	A1	Arco Gas Station	5301 Olympic Blvd., LA	Moderate
4a	D	A1	CIM/Pico	4550 Pico Blvd., LA	Moderate
			Former Lumber Company &	4600-4700 Pico Blvd.,	
			facilities with USTs	LA	
4a	E	A2	Alright Parking Lot, Former	4180 Wilshire Blvd., LA	High
			Chevron		
4a	F	A2	Chevron Gas Station	1009 Crenshaw Blvd., LA	High
4a	G	A2	American Best Auto Repair	4100 Olympic Blvd., LA	Moderate
			Service/Shin Brothers Auto Body		
			and Paint		
4a	Н	A1/A2	Arco Gas Station	4169 Venice Blvd., LA	Moderate
4a	I	A1/A2	76 Gas Station	4176 Venice Blvd., LA	High
4a	J	A1/A2	Mobil Station	1925 Crenshaw Blvd., LA	Moderate
4a	K	A1/A2	Chevron Gas Station	3063 Crenshaw Blvd., LA	Moderate
4a	L	A1/A2	System Cleaners	3631 Crenshaw Blvd., LA	Moderate
4a	M	A1/A2	Arco Gas Station	3400 Crenshaw Blvd., LA	High
4a	N	A1/A2	West Angeles Cathedral (formerly	3628 Crenshaw Blvd., LA	Moderate
			20 th Century Plastics)		
4a	O	A1/A2	Shell Gas Station	3645 Crenshaw Blvd., LA	Moderate
4a	P	A1/A2	Former Gulf Oil	3630 & 3644 Crenshaw	High
				Blvd., LA	
4a	Q	A1/A2	Cameo Cleaners	3650 Crenshaw Blvd., LA	Moderate
4a/4b	R	A1/A2	Lula Washington Dance Theatre	3773 Crenshaw Blvd., LA	High
		& B			
4b	S	В	Shell Gas Station	6805 Crenshaw Blvd., LA	Moderate
4b	T	В	Former Crenshaw Collision Center	6530 Crenshaw Blvd., LA	Moderate



Fig #	ID	Sxn	Facility Name	Address	Hazard
4c	U	C1/C2	Salvage yard	6745 Victoria Ave., LA	Moderate
4c	V	C1/C2	Enderlo Vault Co.	827 Redondo Blvd., Ing	Moderate
4c	W	C1/C2	So Cal Gas Company, Inglewood	700 Warren Lane, Ing	Moderate
			Manufactured Gas Plant		
4c	X	C1/C2	Manufacturing facilities, including	200-330 Beach Ave., Ing	Moderate
			plastic and metal manufacturing,		
			machine shop, and plating works		
4c	Y	C1/C2	Fujita Corporation	230 La Brea Ave., Ing	Moderate
4d	Z	C1	So Cal Edison Electrical	201 Florence Ave., Ing	Moderate
			Substation		
4d	AA	C1	Former Smoot Holman	311 Florence Ave., Ing	Moderate
4d	BB	C1	Former Kroehler Manufacturing	301 Florence Ave., Ing	Moderate
4d	CC	C1	Blue Diamond Materials (441),	401-505 Railroad Place,	Moderate
			Cemex (505), formerly - Foundry	Inglewood	
			(401); Salvage Yard (431); Metal		
			Salvage and Melting (441)		
4d	DD	C1	Former Standard Oil Co. of	401-417 Florence Ave.,	Moderate
			California and Inglewood Foundry	Inglewood	
4d	EE	C1	Mobil Gas Station, formerly	8307 La Cienega Blvd.,	High
			Golden Star Laundry	Inglewood	
4d	FF	C1	LAX Equipment	830 Florence Ave., Ing	Moderate
4d	GG	C1	Charles Caine Co.	8325 Hindry Avenue, LA	Moderate
4d	НН	C1	Former Circuit Board	8331-8341 Hindry Ave.,	Moderate
			Manufacturing and Machine Shop	LA	
4d	II	C1	Zephyr Manufacturing	201 Hindry Ave., Ing	Moderate
4d	JJ	C1	Isis Electrical Substation	8331 Isis Avenue, LA	Moderate
4d	KK	C1	Shell Gas Station	1135 Manchester Blvd.,	
				LA	
4d	LL	C1	Budget Truck Rental	5560 Manchester Blvd.,	High
				LA	
4d	MM	C1	Former metal spinning (1315),	1315-1401 Aviation	Moderate
			machine shop (1319), dry cleaning	Blvd., Inglewood	
			plant (1325), and the American	_	
			Bitumuls & Asphalt Company		
			(1401)		
4d	NN	C1	Unocal/76 Gas Station	8600 Aviation Blvd., Ing	Moderate



Fig #	ID	Sxn	Facility Name	Address	Hazard
4d	OO	C1	Rho-Chem	425 Isis Avenue, Ing	Moderate
4d	PP	C1	Industrial facilities: electronic	8700-9030 Bellanca Ave.,	Moderate
			manufacturing (8700); plastic	LA	
			manufacturing (8900), auto parts	Manchester Boulevard to	
			manufacturing (8924), and aircraft	Arbor Vitae Street, west	
			tool manufacturing and polishing	of railroad tracks.	
			and plating (9030)		
4d	QQ	C1	Princeland Properties	1237 Arbor Vitae, Ing	Moderate
4d	RR	C1	Formerly Freight	9007 – 9121 Aviation	Moderate
			Forwarders/Union Bank/Estate of	Blvd., Inglewood	
			Joseph Collin/Bodycote		
			Hinderliter/Inglewood		
			Suppliers/Sunsetting Auto Body		
4d	SS	C1	King Delivery (currently vacant	5600 Arbor Vitae, LA	High
			lot)		
4d	TT	C1	Numerous manufacturing facilities	9630-9998 Bellanca Ave.,	Moderate
			including aircraft parts (9632)	LA	
4d	UU	C1	North American Aviation, Inc.,	5601 Imperial Highway	Moderate
			Airplane factory		

Ing: Inglewood

Based upon the findings of this Phase I ESA, Leighton Consulting recommends completing the following work discussed below:

• Phase II ESA - Conduct a limited Phase II ESA prior to construction in areas where construction workers may be exposed to impacted soil. A base line soil sampling protocol should be established with special attention to those areas of potential environmental concern identified in this report. The soil should be assessed for constituents likely to be present in the subsurface including, but not limited to, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs), pesticides, lead arsenates, and Title 22 metals. The depth of the sampling should be based on the depth of grading or cut and fill activities. In addition, in areas where groundwater will be encountered, samples should also be analyzed for suspected contaminants prior to dewatering. This will ensure that National Pollutant Discharge Elimination System (NPDES) discharge requirements are satisfied.



- Soil Mitigation Plan A soil mitigation plan should be prepared after final construction plans are prepared showing the lateral and vertical extent of soil excavation during construction. The soil mitigation plan should establish soil reuse criteria, establish a sampling plan for stockpiled materials, describe the disposition of materials that do not satisfy the reuse criteria, and specify guidelines for imported materials. The soil mitigation plan should include a provision that during grading or excavation activities, soil should be screened for contamination by visual observations and field screening for volatile organic compounds with a photo ionization detector (PID). Soil samples that are suspected of contamination based on field observations and PID readings shall be analyzed for suspected chemicals by a California certified laboratory. If contaminated soil is found, it shall be removed, transported to an approved disposal location, and remediated or disposed according to state and federal laws.
- <u>Hazardous Material and Debris Removal</u> All hazardous materials, drums, trash, and debris shall be removed and disposed of in accordance with regulatory guidelines.
- <u>Health and Safety Plan</u> A health and safety plan should be developed for persons with potential exposure to the constituents of concern identified in the limited Phase II ESA.
- Construction Observations Historical and present site usage along the many areas of the proposed alignment included businesses that stored hazardous materials and/or waste and used USTs, from at least the 1920s to the present. It is possible that areas with soil and/or groundwater impacts may be present that were not identified in this report, or were considered a low potential to adversely impact the subject property. In general, observations should be made during any future development activities for features of concern or areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, soil staining or odorous soils. Further investigation and analysis may be necessary, should such materials be encountered.



1.0 INTRODUCTION

1.1 Authorization

Leighton Consulting, Inc. (Leighton Consulting) performed a Phase I Environmental Site Assessment (ESA) of the Proposed Alignments for the Crenshaw-Prairie Transit Corridor in Los Angeles and Inglewood, Los Angeles County, California in accordance with authorization received from the Metropolitan Transportation Authority (METRO) and Terry A. Hayes Associates LLC (TAHA) in response to METRO's request for proposal (RFP) number PS43301968, dated December 1, 2006 (Metro, 2006). References are included in Appendix A.

1.2 Purpose

The purpose of the Phase I ESA was to identify, to the extent feasible pursuant to the processes prescribed in ASTM International (ASTM) E1527-05, recognized environmental conditions (RECs) in connection with the subject property. RECs are defined as: the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimus are not recognized environmental conditions (ASTM 1527-05, 2005).

1.3 Scope of Work

The scope of work was performed in accordance with Leighton Consulting's compliance with the RFP scope and included the following tasks:

- A reconnaissance-level visit of the subject property for evidence of release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- Records Review (including review of previous environmental reports, selected governmental databases, and historical review);



- · Interviews; and
- Preparation of a report presenting our findings.

1.4 Significant Assumptions

Leighton Consulting assumes that the information provided by the Client, regulatory database provider, and regulatory agencies is true and reliable.

1.5 Limitations and Exceptions

Site-specific activities performed by Leighton Consulting and information collected regarding these activities are summarized in the following sections. The findings of this ESA are presented in Section 7.0. Opinions, and conclusions drawn by Leighton Consulting, based on the information collected as part of the ESA, are presented in Sections 8.0 and 9.0, respectively.

This Phase I ESA was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

Leighton Consulting was provided access only to the railroad and street right-of-ways. Access was not provided on any properties located adjacent to the right-of-way and these properties were only inspected from the property boundaries. Fences, vegetation, buildings, etc. limited the observations on many of these properties. Due to the large size of the project, the regulatory database was reviewed to limited radii of 0.25 miles. The scope of work for this Phase I ESA did not include environmental lien searches, city directory reviews, or interviews of owners or tenants of the affected or adjacent parcels.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the ESA described herein. Opinions presented herein apply to subject property conditions existing at the time of our study and cannot necessarily be taken to apply to subject property conditions or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the amount, type, distribution, and integrity of the information collected at the time of the investigation, the methods utilized to collect and evaluate the data, and that a full and complete evaluation of environmental risks cannot be made. Although Leighton Consulting has taken steps to obtain true copies of available information, we make no



representation or warranty with respect to the accuracy or completeness of this information.

This practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the landowner liability protections including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the subject property that are not addressed in this practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

1.6 Special Terms and Conditions

The scope of work for this Phase I ESA did not include testing of electrical equipment for the presence of polychlorinated biphenyls (PCBs) or collection of other environmental samples such as air, water, building materials, or paint; assessment of natural hazards such as naturally occurring asbestos, radon gas, methane gas, or mold; assessment of the potential presence of radionuclides, biological agents, or lead in drinking water; or assessment of nonchemical hazards such as the potential for damage from earthquakes or floods, presence of wetlands, or the presence of endangered species or wildlife habitats. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the subject property or of businesses operating at the subject property, or a health-based risk assessment.

1.7 <u>User Reliance</u>

This report is for the exclusive use of METRO. Use of this report by other parties shall be at such party's sole risk.



2.0 SITE DESCRIPTION

2.1 <u>Location and Legal Description</u>

The Crenshaw-Prairie Transit Corridor study area extends approximately ten miles and 33 square miles from Wilshire Boulevard on the north, to El Segundo Boulevard on the south. Several alignment alternatives are currently being considered, and are collectively referred to as the "subject property" (Figure 1, Site Location Map). For the purpose of this report, the "Project area" is referred to as the subject property and a quarter mile radius from all points of the proposed alignment sections.

The Project area is segmented into three primary sections located in roughly the north (Section A), central (Section B), and southern (Section C) portions of the subject property and are briefly described below:

The northern area (Section A) extends from Wilshire Boulevard, past the Exposition Light Rail Transit (LRT) Line (Expoline) under construction, to Rodeo Road. Only below grade alignments are being considered north of the Expo Line under construction. The northern subarea includes potential alignment segments along the following streets:

- Crenshaw Boulevard
- La Brea Avenue
- San Vicente Boulevard
- Venice Boulevard

Section A1 extends from the Crenshaw Boulevard/Wilshire Boulevard intersection, south along Crenshaw Boulevard to Rodeo Road. Section A2 extends from the La Brea Boulevard/Wilshire Boulevard intersection, south along La Brea Boulevard and then east along San Vicente Boulevard and Venice Boulevard to Crenshaw Boulevard, south to Rodeo Road. The area that the two alignments overlap is referred to as Section A1/A2 in this report. Section A3 and A4 extend a short way east from Crenshaw Boulevard and the future Exposition Light Rail Transit Line, at Exposition Boulevard.

The central area, Section B, extends from just south of Rodeo Road to 67th Street and includes potential alignment segments along the following street:

· Crenshaw Boulevard



The southern area extends from just south of 67th Street to El Segundo Boulevard and includes potential alignment segments along the following streets/rights-of-way:

- Harbor Subdivision Railroad right-of-way (i.e., Burlington Northern Santa Fe (BNSF) Railroad formerly the Atchison Topeka and Santa Fe (A.T. & S.F. Railroad right-of-way)
- La Brea Avenue/Hawthorne Boulevard
- Market Street (in downtown Inglewood)

Section C1 extends from 67th Street to BNSF railroad where it trends west, generally paralleling Florence Avenue, and then turns south generally paralleling Aviation Boulevard to Imperial Highway. Section C2 extends from 67th Street to the BNSF railroad, and then turns south on Market Street which then merges into La Brea Avenue (later named Hawthorne Boulevard) to Imperial Highway. The area that the two alignments overlap is referred to as Section C1/C2 in this report.

The subject property includes the aforementioned streets/rights-of-way as shown on Figure 1, and also includes portions of the following parcels that will be affected or displaced:

(1) Affected Parcels – At San Vicente Boulevard and Venice Boulevard, Zip Code 90019

APN	Address	Property Use
5083-033-015	4600, 4646, 4700 W. Pico Blvd.	Retail shops and restaurants;
		Metro bus stop
5083-033-016	No Parcel Address. 4550 and 4560	All buildings demolished. Earth
	W. Pico Blvd. posted on fence.	moving activities have occurred.
		No construction appears to be
		taking place presently.



(2) Affected Parcels – Southwest of Venice Boulevard and Crenshaw Boulevard, 90019

APN	Address	Property Use
5071-004-015	1600 S. Wellington Rd.	Single Family Residential
5071-004-001	1601 S. Victoria Ave.	Single Family Residential
5071-004-002	1611 S. Victoria Ave.	Single Family Residential
5071-004-003	1615 S. Victoria Ave.	Single Family Residential
5071-001-011	1614 S. Victoria Ave.	Single Family Residential
5071-001-012	1620 S. Victoria Ave.	Single Family Residential
5071-001-013	1626 S. Victoria Ave.	Single Family Residential
5071-001-014	1632 S. Victoria Ave.	Single Family Residential
5071-001-041	1625 Crenshaw Blvd.	Multi Family Residential
5071-001-028	1641 Crenshaw Blvd.	Multi Family Residential
5071-001-029	1645 Crenshaw Blvd.	Single Family Residential
5071-001-030	1703 Crenshaw Blvd.	Multi Family Residential
5071-001-031	1707 Crenshaw Blvd.	Multi Family Residential
5071-001-032	1709 Crenshaw Blvd.	Multi Family Residential
5071-001-033	1717 Crenshaw Blvd.	Multi Family Residential
5071-001-034	1721 Crenshaw Blvd.	Single Family Residential
5071-001-036	1727 Crenshaw Blvd.	Single Family Residential

(3 & 4) Affected Parcels – East of Crenshaw Boulevard, South of Exposition Boulevard, 90016

APN	Address	Property Use
5044-002-007	3628 & 3630 S. Crenshaw Blvd.	Jacks Chili
	(area 3, remainder are in area 4)	
5044-002-006	3642, 3644, 3646 S. Crenshaw Blvd.	Yum Yum Donuts, Clean King
	3515, 3519 W. Rodeo Rd.	(coin laundry), Conroys Flowers
5033-001-035	3650 S. Crenshaw Blvd.	Parking Lot fronting Cameo
		Cleaners, King Donuts, Chinese
		Food, Ralphs Grocery
5033-001-034	3656 & 3660 S. Crenshaw Blvd.	Same as above
5033-001-033	3662 S. Crenshaw Blvd.	Same as above
5033-001-032	3668 S. Crenshaw Blvd.	Same as above
5033-001-031	3670 S. Crenshaw Blvd.	Same as above
5033-001-030	3680 S. Crenshaw Blvd.	Same as above
5033-001-029	3684 S. Crenshaw Blvd.	Same as above
5033-001-028	3690 S. Crenshaw Blvd.	Same as above
5033-001-027	3694 & 3698 S. Crenshaw Blvd.	Same as above
5033-001-037	No address directly associated with	Crenshaw Boulevard extension
	affected area	fronting Rite Aid and
		commercial businesses

Photographs of the subject property and Project area are included as Appendix B. Figures 2a through 2c show the affected parcel areas. The assessor's parcel information, including legal descriptions for the affected parcels, obtained from the County of Los



Angeles Assessor's website is included in Appendix C, as well as detailed maps provided by TAHA showing the proposed alignment through the affected parcels.

2.2 <u>Subject Property and Vicinity General Characteristics</u>

The immediate subject property vicinity and the surrounding areas consist of residential, commercial, manufacturing, and industrial properties, as well as transportation corridors (streets and freeways).

2.3 <u>Current Use of the Subject Property</u>

The subject property is currently used for transportation purposes, including paved roads and railroad right-of-ways; however, the railroad right-of-way is reportedly inactive at this time. The current uses of the affected parcels are listed in Section 2.1.

2.4 Descriptions of Structures, Roads and Other Improvements on the Subject Property

The subject property is currently developed with roads and a railroad, and includes portions of the parcels listed in Section 2.1. See Section 2.1 for a list of the road sections included in the subject property and the improvements on the affected parcels.

2.5 Current Uses of Adjoining Properties

Adjacent sites include residential, commercial, manufacturing, and industrial properties. A list of all adjacent sites observed during the site reconnaisance conducted on February 12, 14, 26, 27, and March 3, 2008 is included in the Site Reconnaissance Record Log, Appendix D.



3.0 USER PROVIDED INFORMATION

The user of this Phase I ESA is identified as the client, METRO. As a part of the ASTM 1527-05 process, a User Questionnaire regarding the property was forwarded to Mr. Matt Fraychineaud, an Environmental and Real Estate Consultant for METRO. The User Questionnaire was returned on April 23, 2008 and is included in Appendix E.

3.1 <u>Title Records</u>

A preliminary title report was not provided by METRO.

3.2 <u>Environmental Liens or Activity and Use Limitations</u>

Evidence of environmental liens or activity and land use limitations was not disclosed to Leighton Consulting.

3.3 <u>Specialized Knowledge</u>

METRO did not provide specialized knowledge or experience regarding the subject property to Leighton Consulting with the exception that METRO indicated that the current railroad portion of the site has been used as a railroad right-of-way since circa 1900s.

3.4 <u>Commonly Known or Reasonably Ascertainable Information</u>

METRO did not provide any commonly known or reasonably ascertainable information to Leighton Consulting, with the exception of site use as a railroad right-of-way since circa 1900s.

3.5 Valuation Reduction for Environmental Issues

METRO responded that valuation reduction is not applicable due to the site already being owned by METRO and no real estate transaction is involved.



3.6 Owner, Property Manager, and/or Occupant Information

The railroad right-of-way is currently owned by METRO. The affected parcels are owned by multiple individuals and/or businesses. Site specific owner information was not provided to Leighton Consulting.

3.7 Reason for Performing Phase I ESA

The Phase I ESA is required for a proposed public transportation project. The purpose of the Phase I ESA is to assess the subject property for RECs and to make recommendations for additional work that should be performed for potential redevelopment of the subject property, or a portion thereof, for transportation usage. Identified RECs should be taken into consideration when considering the health and safety of the workers present during the construction phase.

3.8 Other

METRO stated that there may be prior environmental reports for the portion of the Harbor Line Subdivision (railroad right-of-way) that is part of the subject property, and that if so, they would be located in an off-site storage facility. No prior environmental reports were provided to Leighton Consulting for review.



4.0 RECORDS REVIEW

4.1 <u>Physical Setting Source(s)</u>

Leighton Consulting reviewed pertinent maps and readily available literature for information on the physiography and hydrogeology of the subject property. A summary of this information is presented in the following subsections.

4.1.1 Topography

The Project area ranges in elevation across its length from approximately 200 feet above mean sea level (msl) at the northern end to 160 feet msl as it traverses the southern portion of the Baldwin Hills to 100 feet msl at the southern end near its terminus east of Los Angeles International Airport. Review of the Hollywood and Inglewood, California 7.5 minute Quadrangle Topographic Map (USGS, 1953 and 1964, respectively) indicates local surface-water sheet flow is generally toward the south-southeast. As the alignment traverses the southern Baldwin Hills-NIFZ sheet flow is generally toward the south as indicated on the Venice, California 7.5 minute Quadrangle Topographic Map (USGS, 1964).

4.1.2 Surface Water

Ballona Creek is located approximately 0.6 miles to the southwest of the subject property at its closest point at the corner of La Brea Boulevard and San Vicente Boulevard. A tributary of Centinela Creek is located approximately 0.3 miles to the north of the subject property at its closest point at the intersection of the railroad right-of-way and Interstate 405.

4.1.3 Geology and Soils

The near-surface native soils within the Project area are Holocene and Pleistocene-age non-marine alluvium comprised of varying proportions of gravel, sand, silt, and clay deposited by the Los Angeles River, Rio Hondo, San Gabriel River, and ancestral Santa Ana (Yerkes, 1965). Much of this sediment was deposited as sand, silt, and clay as the rivers meandered across the floodplain of the Los Angeles basin. These deposits are anticipated to be on the order of several hundred feet in thickness, subsequently underlain within the Southwestern Block by a thick (several thousands of feet) sequence of Tertiary age sedimentary



rock formations locally intruded by igneous rocks of middle Miocene age overlying Cretaceous age basement rocks belonging to the Catalina Schist. Underlying the near-surface Quaternary sediments within the Central Block are a sequence of Tertiary age sedimentary rocks anticipated to be on the order of 16,000 to 31,000 feet thick and are subsequently underlain by basement rocks consisting of granodiorite, gneissic metadiorite, and meta-igneous rocks.

The geologic structure of alluvial materials is anticipated to be generally massive; however, it can be interpreted based on a geologic depositional environment typical of flood plain and alluvial deposits that cross-stratification (channel trough cross-stratification or transverse bar-tabular cross-stratification) sedimentary structure exists at depth. Possible relevance of these sedimentary features could include local impermeable zones with the potential for perched groundwater.

4.1.4 <u>Hydrogeology</u>

The proposed Project traverses the Los Angeles Basin. The Los Angeles Basin, a structural trough, is a northwest-trending alluviated lowland plain approximately 50 miles long and 20 miles wide. Mountains and hills that generally expose Late Cretaceous to Late Pleistocene-age sedimentary and igneous rocks bound the Basin along the north, northeast, east and southeast (Yerkes, 1965). The Basin is part of the Peninsular Ranges geomorphic province of California that is characterized by sub-parallel blocks sliced longitudinally by young, steeply dipping northwest-trending fault zones. The Basin, located at the northerly terminus of the Peninsular Ranges, is the site of active sedimentation and the strata is interpreted to be as much as 31,000 feet thick in the center of the synclinal trough of the Central Block of the Los Angeles Basin. The current proposed Project alignment alternatives traverse the southern portion of the Central Block, Newport Inglewood Fault Zone (NIFZ), and the northern portion of the Southwestern Block of the Los Angeles Basin.

<u>Hollywood Quadrangle:</u> Historic groundwater highs, as interpreted from the Seismic Hazard Evaluation of the Hollywood 7.5 Minute Quadrangle, Los Angeles County, California (CDMG SHZR 026, 1998) indicate groundwater levels from 20 to 80 feet below ground surface (bgs) north of the I-10 to 10 to 20 feet bgs along the northeastern portion of the Baldwin Hills.



<u>Inglewood Quadrangle</u>: Historic groundwater highs, as interpreted from the Seismic Hazard Evaluation of the Inglewood 7.5 Minute Quadrangle, Los Angeles County, California (CDMG OFR 98-18, 1998) indicate groundwater levels from 10 to 40 feet bgs along the eastern portion of the Baldwin Hills.

<u>Venice Quadrangle</u>: Historic groundwater highs, as interpreted from the Seismic Hazard Evaluation of the Venice 7.5 Minute Quadrangle, Los Angeles County, California (CDMG OFR 98-27, 1998) indicate groundwater levels from 10 to 40 feet bgs along the Atchison Topeka and Santa Fe railway right-of-way.

4.1.5 Oil and Gas Fields

Based on the Geologic Map of the Hollywood and Burbank (south ½) quadrangles, Los Angeles County, California the northern portion of the Crenshaw Boulevard segment alignment, south of Olympic Boulevard and east of La Brea Avenue, will traverse the Las Cienegas Oil Field. The oil field was discovered in 1961 and is currently an actively producing oil field (DOGGR, Publication No. TR52) Wells drilled near the Las Cienegas Oil Field bottom at relatively shallow depths in gneissic metadiorite (Yerkes, 1965).

The portion of the alignment crossing the southern Baldwin Hills will traverse a portion of the Inglewood Oil Field. The oil field was discovered in 1948 and is currently an actively producing oil field. Wells drilled in the Inglewood Oil Field bottom in both massive and foliated, intensely altered rhyolite porphyry (Yerkes, 1965). The location of the study area in relation to oil fields is presented on Figure 3, Oil Field Hazard Map.

Common problems associated with oil field properties include methane and hydrogen sulfide soil gas, oil seepage, contaminated soils, leaking wells, and wells not plugged and abandoned to current standards.

No evidence of onsite oil or gas wells or oil field-related facilities was observed along the proposed alignment sections. Leighton Consulting reviewed the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Oil and Gas Map Regional Wildcat Map 1-5 and Oil Field Maps 118 and 123 (DOGGR, 2006, 2003a, 2003b, respectively). According to the maps, numerous oil and oil-related wells are located in the vicinity of the



study area. The following table summarizes the oil and oil-related wells located within approximately 500 feet of the study area:

Owner and "Name"	~ Location/APN	Well Condition	~ Distance *
Union Oil Co. of CA, "Los Cienegas Core Hole" 20	SW Sycamore Ave. & La Brea Ave. / 5084-014-028	P&A – dry	75 ft. South
Nuevo Energy Co., "1-15, 19" & Union Oil Co. of CA, "Pacific Electric" 16 & 18	Between Pico & Venice Blvd., south of Tremaine Ave. / 5070-013-003	18 well cluster 12 – completed oil 2 – P&A dry 2 – abandoned oil, converted to water disposal 1 – P&A oil 1 – completed water flood	460 ft. South
Chevron U.S.A. Inc., "Wilton Corehole R/D" 2	NE Wilshire & Irving Blvd. / 5504-009-017	P&A – dry	350 ft. East
Union Oil Co. of CA, "Los Cienegas Core Hole" 22	SE of Crenshaw & Olympic Blvd. / 5081-004-022	P&A - dry	150 ft. East
Union Oil Co. of CA, "Los Cienegas Core Hole" 21	NE of Crenshaw Blvd. and I-10 / 5060-004-017	P&A – dry	190 ft. East
Chevron U.S.A. Inc., "Pacific Telephone"1	SE Leimert Blvd. & Vernon Ave., Inglewood	P&A – dry	100 ft. East
Chevron U.S.A. Inc., "Inglewood Cemetary"	NW AT&SF Railroad & Redondo Blvd., Inglewood	P&A – dry	100 ft. North
Petroleum Securities, "Parent" 1	SE Florence & Prairie Ave., Inglewood	P&A – dry	100 ft. South

^{*:} Approximate Distance from Project Alignment in feet (ft.)

APN: Assessor's Parcel Number - not available for wells located in Inglewood

P&A: Plugged and Abandoned

4.2 Standard Environmental Record Sources

A search of selected government databases was conducted by Leighton Consulting using the Environmental FirstSearchTM Report, an environmental database report system, prepared by Track Info Services, LLC, dated January 8, 2008. Details of the database search along with descriptions of each database researched are provided in the FirstSearchTM report, which is included as Appendix F, (see included compact disc (CD)). The database listings were reviewed within the specified radii of a quarter of a mile as requested by TAHA and METRO.



Development of the Classification Criteria

For this study, Leighton Consulting has established classification criteria to assist in identifying the potential impacts of each contaminated or potentially contaminated facilities that were identified in the FirstSearchTM environmental database report system. Each facility was classified as high, moderate, or low with respect to its type of operation, proximity to the subject property, the anticipated hydrogeologic gradient, field observations, and regulatory information. In general, the classification criteria are:

- <u>High</u> facilities with known or probable soil/groundwater contamination (i.e. Leaking Underground Storage Tanks [LUSTs]), and facilities where remediation is incomplete or undocumented, and the contamination is known or suspected to exist on the subject property.
- Moderate facilities with identified or potential soil contamination (i.e. LUSTs), remediation is in progress, or groundwater contamination that does not appear to be migrating and has not been reported on the subject property. Facilities with a heavy industrial/manufacturing background that typically use or have used significant quantities of hazardous materials may also be classified as Moderate.
- <u>Low</u> facilities that have completed remediation or have historically utilized only small amounts of known contaminants (i.e. small quantity generators or underground storage tanks).

Facilities that are adjacent to the subject property that have reported LUSTs that have been issued closure letters have been ranked as Low to Moderate, based on the possibility of residual contamination. In addition, dry cleaning facilities that have not reported spills have been ranked as Low to Moderate, based on their commonly known likelihood of contamination.

4.2.1 Subject Property

The subject property (primarily the affected parcels) was identified on the FirstSearchTM report under several different databases. The following table summarizes the location, description of the database find, and the classification criteria (potential of environmental concern) of the onsite facilities identified by FirstSearchTM. The affected parcels are also listed on the offsite facilities table because the actual location of the UST, spill, or other listing, may not have been located directly on the project alignment. A description of each database can be found at the rear of the FirstSearchTM report included in Appendix F.



Alignment Option	FirstSearch ID#	Facility Name and Address	Affected Parcel Area	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
A1	39	Pacific Electric Railroad, 4600 Venice Blvd., Los Angeles	1	SWL	Date: 7/3/00. Solid Waste Assessment Test Site. No records available with Los Angeles Fire Department or Regional Water Quality Board. Triangular shaped parcel between Pico, San Vicente, Venice, and West Blvds. (4500 to 4700 Pico Blvd.) redeveloped with new structures on western portion in 2006. All buildings on central and eastern portion have been demolished and area has undergone earth moving activities. No RECs observed at reconnaissance	Low to Moderate
A1	171	CIM/PICO, LP, 4550 Pico Blvd., Los Angeles	1	SPILLS	A-030, Met, total petroleum hydrocarbons (TPH). Reopen previously closed case. Site not listed on Geotracker. Review at Los Angeles Fire Department (LAFD) underground straoge tank (UST) Division - UST Removal and Soil Remediation Report (Earth Tech, 2005). Two USTs discovered during site redevelopment, in vicinity of current retail stores at 4700 Pico Blvd., ~ 100 ft east of San Vicente Blvd. One contained heavy petroleum (minor spill at time of discovery) and the other filled with sand/cement slurry. Removed 5/26/05. Over-ex of impacted soil. Minor TPH and gas related Volatile organic compounds (VOCs) in one soil sample. Concluded no significant impact and no further action. Closure letter issued 4/25/06. On a site plan included in the UST removal report, waste oil USTs and a former fuel UST was depicted at the Sears Auto Center (see ID 288). In addition, a historical crude oil tank was depicted in the vicinity of the proposed alignment. No information for this tank was found and it is not certain what facility used this tank.	High
A1	288	Spiderman 2 – Transportation, 4550 Pico Blvd. , Los Angeles	1	RCRAGN, RCRANLR	Motion picture and video production facility. Haz waste information listed various spent non-halogenated solvents. Facility likely used limited amounts of materials and this facility was likely only in operation a short time.	Low
A1	288	Sears Auto Center, 4550 Pico Blvd., Los Angeles	1	UST	Listed as an Inactive UST site. Review at LAFD UST Division - UST Removal Report (PIC, 1989). Four waste oil USTs were located in a concrete vault. No TPH detected in soil beneath vault. Closure letter 4/25/06.	Low
A1	169	Crenshaw Motors Auto Body , 4606 Pico Blvd., Los Angeles	1	UST	No additional details available. This facility was located fronting Pico Blvd., approximately 350 feet east of the proposed alignment.	Low to Moderate
A1/A2	46	Cameo Cleaners, 3650 Crenshaw Blvd., Los Angeles	4	SPILLS	4/26/01 Remedial action underway. VOCs – PCE & TCE	Moderate



Alignment	FirstSearch	Facility Name and Address	Affected	Database	FirstSearch Details	Hazard Ranking
Option	ID#		Parcel Area	Type	(may include regulatory agency review and/or site reconnaissance	
					information)	
C1	NON GC	BNSF HR-LA-C-GET-HB-3/HB-4, Railroad Right-of-		OTHER	Status Date: 4/30/01. Status: Refer: 1248 Local Agency. Branch: So Cal	Moderate
		Way, 550 South of Arbor Vitae, Los Angeles			- Cypress. The local agency in Cypress is the DTSC. According to Ms.	
					Jone Barrio, they have no records for this site.	
					The FirstSearch description for the database "Other" is listed as a	
					State/Tribal Site Listing by DTSC for a No Further Action	
					Determination. The nature of this listing is unclear.	

Affected Parcels: 1) San Vicente Blvd. and Venice Blvd. 2) Venice Blvd. and Victoria Ave. 3) Crenshaw Blvd. and 36th St 4) Crenshaw Blvd. at Exposition Blvd. south to Coliseum St

4.2.2 Offsite

The following table lists the offsite facilities identified within the FirstSearchTM report that may present concern to the subject property. A facility is listed as "adjacent" if it is located on the parcel that is adjacent to the road or railroad-right-of-way project alignment, and the exact location of the listing may be directly adjacent to the subject property or several hundred feet away.

Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject Property (Miles)	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
A1	290, 369	Lou Ehler's Cadillac, 5151 Wilshire Blvd., Los Angeles	.07 NE	LUST, UST, RCRAGN	New Car Dealer. SWEEPS/FIDS UST listing. SWRCB AST. LUST – Case Closed in 1996. Grounwater (GW) affected – removed free product from water table.	Low
A1	187	AA Custom Cleaners	Adjacent E	RCRAGN	Cleaners	Low to Moderate
A1	220	Metropolitan Paratransit Co., 820 La Brea Ave., Los Angeles	Adjacent E	UST	Active	Low
A1	222	Daryouch Arghavan, 901 La Brea Ave., Los Angeles	Adjacent W	UST	Active	Low
A1	73	Metropolitan Car Wash/Expert Car Wash, 900 South La Brea, Los Angeles	Adjacent E	UST, ERNS, LUST	UST –active. ERNS – 100 gallons of gasoline contained in clarifier, cleaned out. LUST – release of gasoline in 1990, closed in 1998. LUST – release of gasoline in 1993, preliminary site assessment – not listed on Geotracker	Moderate
A1	48	KCOP Production Studio (former), 915 S. La Brea Ave., Los Angeles	Adjacent W	SPILLS	Date listed – 11/6/07. Lead Agency: LA RWQCB, Remediation Plan approved. Not listed in Geotracker. No additional information.	Moderate
A1	110	Mole-Richardson Company, 926 S. La Brea Ave., Los Angeles	Adjacent E	LUST	Gasoline Release 1994. Closed in 1998. Site not tested for methyl tert- butyl ether (MTBE)	Low to Moderate
A1	67	Unocal/Jose Union Service, 5301 W Olympic Blvd., Los Angeles	Adjacent W	ERNS, UST, LUST	8/31/92 – Site being assessed, Soil and GW contamination discovered (gasoline). Closed in 1998.	Low to Moderate
A1	356	Peak Performance Automotive, 1201 S La Brea Ave., Los Angeles	Adjacent W	ERNS	3/8/96 – Contaminated soil found during environmental assessment (unknown oil). 4/9/96 – Hydraulic lift oil leak from hydraulic hoist – soil and GW affected.	Low to Moderate



Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject Property (Miles)	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
A1	324, 403	Swedish Motors, 1210 S La Brea Ave., Los Angeles	Adjacent E	RCRAGN, UST	Active	Low
A1	469	Filipinas Auto Center, 1250 S La Brea, Los Angeles	Adjacent E	UST	Active	Low
A1	39	Pacific Electric Railroad, 4600 Venice Blvd., Los Angeles	Adjacent N	SWL	Date: 7/3/00. Solid Waste Assessment Test Site. No records available with Los Angeles Fire Department or Regional Water Quality Board. Triangular shaped parcel between Pico, San Vicente, Venice, and West Blvds. (4500 to 4700 Pico Blvd.) redeveloped with new structures on western portion in 2006. All buildings on central and eastern portion have been demolished and area has undergone earth moving activities. No RECs observed at reconnaissance	Low to Moderate
A1	482	Service Station 5843, 4777 Pico Blvd.	Adjacent S	UST	Inactive	Low
Al	434	Midtown Dry Cleaners, 4764 W Pico Blvd., Los Angeles	.01 S	RCRAGN	Dry Cleaners	Low
A1	171	CIM/PICO, LP, 4550 Pico Blvd., Los Angeles	Adjacent N	SPILLS	A-030, Met, TPH. Reopen previously closed case. Site not listed on Geotracker. Review at LAFD UST Division - UST Removal and Soil Remediation Report (Earth Tech, 2005). Two USTs discovered during site redevelopment, in vicinity of current retail stores at 4700 Pico Blvd., ~ 100 ft east of San Vicente Blvd. One contained heavy petroleum (minor spill at time of discovery) and the other filled with sand/cement slurry. Removed 5/26/05. Over-ex of impacted soil. Minor TPH and gas related VOCs in one soil sample. Concluded no significant impact and no further action. Closure letter issued 4/25/06. On a site plan included in the UST removal report, waste oil USTs and a former fuel UST was depicted at the Sears Auto Center (see ID 288). In addition, a historical crude oil tank was depicted in the vicinity of the proposed alignment. No information for this tank was found and it is not certain what facility used this tank.	Moderate
A1	265	City of Los Angeles, 4526 Pico Blvd., Los Angeles	Adjacent N	UST	Active	Low
A1/A2	11, 72, 205	Shell, 1860 Crenshaw Blvd., Los Angeles	Adjacent E	LUST, RCRAGN, UST	Gasoline release 1988, soils only. Case closed 1998.	Low to Moderate
A1/A2	17, 204	ExxonMobil Oil Corp.,/Mobile Service Station, 1925 Crenshaw Blvd., Los Angeles	Adjacent W	RCRAGN, UST, LUST	Mobil LUST – Gasoline release 1993. Closed 1997. MTBE not tested.	Low to Moderate
A1/A2	142	Exxon Station, 4180 W Washington Blvd., Los Angeles	Adjacent E	LUST, UST	Gasoline release to soil only 1992. Closed 1997.	Low to Moderate
A1/A2	207	Chevron Station, 4201 Washington Blvd., Los Angeles	Adjacent W	UST	Inactive	Low
Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance	Hazard Ranking



			Subject Property		information)	
			(Miles)			
A1/A2	103	Cleaners Plus, 4209 W Washington Blvd., Los Angeles	Adjacent W	RCRAGN	Cleaners	Low to Moderate
A1/A2	160	Chevron Station, 2338 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active; however, Chevron Station no longer present. Vacant lot.	Low to Moderate
A1/A2	194	4 Day Tire Stores, 2349 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Active	Low
A1/A2	69	U-Haul Co., 2451 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Active	Low
A1/A2	130	Chevron, 2530 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active	Low
A1/A2	146	Union 76 Station, 2545 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Active	Low
A1/A2	117	Chevron, 2538 Crenshaw Blvd., Los Angeles	Adjacent E	UST, LUST	Gasoline release 1986. Vacuum extraction. Closed 1996.	Low to Moderate
A1/A2	68, 115	Exxon/Arco/Thrifty Oil/Tin Tan Aye, 4406 W Adams Blvd., Los Angeles	Adjacent W	ERNS, RCRAGN, UST, LUST	ERNS – dispenser malfunction while changing filters. Wash down storm drain. LUST (Exxon) – Gasoline release 1992. Closed 1997. MTBE not tested. LUST (Arco) – Spill 2005 – Leak being confirmed. Not listed in Geotracker.	Low to Moderate
A1/A2	303	Esquire Quality Cleaners, 4356 W Adams Blvd., Los Angeles	.08 E	RCRAGN	Cleaners	Low
A1/A2	163	Exxon/Ho Kim/Mobil, 4380 Adams Blvd., Los Angeles	.02 E	RCRAGN, UST, ERNS, LUST	ERNS – 1 gal. gasoline release, leaky dispenser. LUST – Gasoline release 1991, soils only. Closed 2007.	Low to Moderate
A1/A2	232	Bengt Enterprizes Inc./Arakel Benjamin Property, 2641 Crenshaw Blvd., Los Angeles	Adjacent W	UST, LUST	Gasoline release 1993. Closed 1993.	Low to Moderate
A1/A2	229	Pep Boys, 2800 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Inactive	Low
A1/A2	15	Joy Cleaners, 2817 Crenshaw Blvd., Los Angeles	Adjacent W	RCRAGN	Cleaners	Low to Moderate
A1/A2	231	Mark C Bloome, 2850 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active	Low
A1/A2	233	Marvin Gart Trust, 2929 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Inactive	Low
A1/A2	234	Chevron, 3063 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Active; monitoring well observed on the southeast corner of lot. May be associated with Arco remediation site to the southeast.	Moderate to High
A1/A2	181	Albert Morita, 3400 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active	Low
A1/A2	64	Arco, 3412 Crenshaw Blvd., Los Angeles	Adjacent E	UST, LUST	Gasoline release 1988. Closed 1996, MTBE not tested. Hydrocarbon release to soil only in 1998 due to piping corrosion. Preliminary site assessment. Plan to excavate and dispose. Numerous wells observed onsite including a well to the northwest	High
					across the street.	
A1/A2	230	Midas Muffler, 3501 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Inactive	Low
A1/A2	74, 84	Crenshaw Car Wash, 3518 Crenshaw Blvd., Los Angeles	Adjacent E	SPILLS	1/3/02 – TPH. No Further Action Required.	Low to Moderate
A1/A2	18, 45	System Cleaners, 3631 Crenshaw Blvd., Los Angeles	Adjacent W	RCRAGN, SPILLS	1/3/02 – Inactive, VOCs. 11/6/07 – SLIC case open, VOCs.	Moderate
A1/A2	70, 83	Fulcor Realty Inc/Film Processing Co, 3602 Crenshaw Blvd., Los Angeles	Adjacent E	UST, SPILLS	Fulcor Realty, UST – noncertified. Film Processing, Spills – VOCs, No further action required.	Low



Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject Property (Miles)	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
A1/A2	77, 86	20 th Century Plastics, 3628 Crenshaw Blvd., Los Angeles	Adjacent E	RCRAGN, LUST, SPILLS	Lust – Hydrocarbon release 1997, soils only. Leak being confirmed. Spills – 1/3/02, VOCs. No further action. Review at LAFD UST Division - A 10,000 gallon diesel UST was removed in 1997. A closure letter was issued in 2000. The UST was located at the southeast corner of the property, approximately 500 feet east of Crenshaw Blvd. The site has since been redeveloped with West Angeles Church. Based on the closure letter and the absence of petroleum hydrocarbons detected in the soil or the GW, this former UST is not expected to negatively impact the subject property; however, based on the former usage of this property as an electronics manufacturing facility, Gilfillan Bros. Inc., in the 1950s and 1960s, this facility has a moderate potential to negatively impact the subject property.	Moderate
A1/A2	57	Shell Service Station, 3645 S Crenshaw Blvd., Los Angeles	Adjacent E	UST, RCRAGN, LUST	Gasoline release 2005. Pollution characterization. Not listed in Geotracker.	Moderate
A1/A2	46	Cameo Cleaners, 3650 Crenshaw Blvd., Los Angeles	Adjacent E	SPILLS	4/26/01 Remedial action underway. VOCs – tetrachloroethylene (PCE) & trichloroethylene (TCE)	Moderate
A1/A2	246	Eung Park, 3699 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Active	Low
A1/A2	20	O'Connor Lincoln Mercury, 3737 Crenshaw Blvd., Los Angeles	Adjacent W	UST, LUST, RCRAGN, SPILLS	Gasoline release to soils only in 1988. Excavate and dispose. Closed 1997. Spills – closed 1998.	Low to Moderate
A1/A2	55	Majestic Pontiac and Honda, 3740 S Crenshaw Blvd., Los Angeles	Adjacent E	RCRAGN, UST	Active	Low
A1/A2	65	Matchmaster Dying and Fin, 3700 S Crenshaw Blvd., Los Angeles	Adjacent E	UST	Noncertified	Low
A2	108	Alright Parking Lot (Former Chevron), 4180 Wilshire Blvd., Los Angeles	Adjacent E	LUST	Gasoline release 1982. Remedial Action. Geotracker - 20 monitoring wells, including wells on Crenshaw Blvd. and to the west. GW at site impacted with gasoline compounds. Max detected in May 2007 (μg/L, MW-5) TPHg-44,000; Benzene 2,100; Toluene 970. GW depth – 30–38.71 ft bgs in May 07.	High
A2	100	Oscars Cleaners, 958 Crenshaw Blvd.	Adjacent E	RCRAGN	Cleaners	Low to Moderate
A2	12	Chevron/Sabafed Investments, 1009 Crenshaw Blvd., Los Angeles	Adjacent W	LUST, UST, RCRAGN	Gasoline release 1994. Remedial Action. Geotracker - 20 monitoring wells, including wells along Crenshaw Blvd. GW at site impacted with gasoline compounds. Max detected in Jan 2007 (µg /L, MW-11) TPHg 235, Benzene 2, TBA 45. GW depth 16.66–24.55 ft bgs in May 07. Gradient .02 SW.	High



Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject Property (Miles)	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
A2	53	American Best Auto Repair Service/Shin Brothers AutoBody and Paint, 4100 W Olympic Blvd., Los Angeles	.01 E	UST, LUST	Gasoline release 1991. 2002 – remediation plan. GW affected, MTBE <1.0 in GW.	Moderate
A2	448	Former Pickett Station, 3954 W Olympic Blvd., Los Angeles	.14 E	UST, LUST	Gasoline release in 1989. 2007 – remediation plan. Vacuum extract, pump and treat GW.	Low
A2	199	Mepco Gas/Mobil, 4169 Venice Blvd., Los Angeles	Adjacent E	UST	Active	Low
A2	71, 186	Unocal/Midtown Union 76, Tosco 76 Station, 4176 Venice Blvd., Los Angeles	Adjacent E	ERNS, UST, LUST, RCRANLR	ERNS – gasoline soil contamination found during construction project. LUST – pollution characterization. Gasoline release 1992. 12 monitoring wells, including 3 wells along Crenshaw Blvd. 2 wells with floating product. GW depth 48.3-54.3 ft bgs April 07. Variable gradient.	High
A3/A4	384	Kas Tex Corp/Montique Corp, 3411 Exposition Blvd., Los Angeles	Adjacent N	UST, RCRAGN	UST – Inactive	Low
A3/A4	527	Siskin Ivestment Co, 3217 Exposition Place, Los Angeles	Adjacent S	UST	Active	Low
В	8, 32	Apt Medical Transportation Inc./Lula Washington Dance Theatre, 3773 S. Crenshaw Blvd., Los Angeles	Adjacent W	UST, FED IC/ED, Brownfield	UST removed in 1995, contamination identified but no MTBE. Possible additional UST. Hydraulic lift, 3 ASTs. Formerly used as transportation services company – existing auto bay with hydraulic lifts and 2 former USTs. Two phases of soil investigation have been completed; cleanup by vapor extraction began in 2006 – scheduled to run ~1 year. SVE system still located at this facility. http://www.lacity.org/ead/labf/guide/Appendix%20C%20-%20Sample%20BSIR.pdf http://tosc.oregonstate.edu/about/news/newsletters/Newsletter%20PDFs/LWDT_Brownfield_Fact_Sheet.pdf	High
В	76	Crenshaw Sq Cleaners, 3824 Crenshaw Blvd., Los Angeles	Adjacent E	RCRAGN	Cleaners	Low to Moderate
В	2, 236	Boyd Peterson/Auto Parts, 3833 Crenshaw Blvd., Los Angeles	Adjacent W	LUST, UST	Gasoline release to soils only, 1989. Closed 1989.	Low to Moderate
В	6	Angelus Funeral Home, Inc., 3875 Crenshaw Blvd., Los Angeles	Adjacent W	UST, LUST	Gasoline release 1991. Excavate and dispose soil in 1993. Closed 1995. MTBE not tested.	Low to Moderate
В	52	Softone Cleaners, 3939 Crenshaw Blvd., Los Angeles	.01 W	RCRAGN	Cleaners	Low to Moderate
В	58, 63	Unocal/Lees Union 76, 3555 Martin Luther King/4040 Crenshaw Blvd., Los Angeles	Adjacent E	LUST, UST	Gasoline release 1994. Closed 1996. MTBE not tested.	Low to Moderate
В	235, 302	Alexander Haagen Company, 4101 S Crenshaw Blvd./3636 Martin Luthor King, Los Angeles	Adjacent W	Other, UST	Abated 4/6/88. No additional information.	Low
В	104	Debbie Imperial Cleaners, 4132 S Crenshaw Blvd., Los Angeles	Adjacent E	RCRAGN	Cleaners	Low to Moderate
В	242	AAA Market, 4140 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active	Low
В	54	Thrifty Oil/Robert French, 4200 Crenshaw Blvd., Los Angeles	Adjacent E	UST, LUST	Gasoline release to soils only 1995. Closed 1997. Gasoline release to soils only (?) 1996. Closed 2006. Max MTBE in GW 150 ppb.	Low to Moderate
В	177	Enz Enterprise Inc, 4220 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Inactive	Low
В	22	Classic Cleaners, 4233 Crenshaw Blvd., Los Angeles	Adjacent W	RCRAGN	Cleaners	Low to Moderate
Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Rankinş



			Property (Miles)			
В	183	Jerry Harmon Buick, 4252 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active	Low
В	21	Windsor Cleaners, 4293 Crenshaw Blvd., Los Angeles	Adjacent W	RCRAGN	Cleaners	Low to Moderate
В	269	Chevron USA, 3511 Homeland, Los Angeles	Adjacent W	UST	Listed as active. Appears to currently be addressed as 4299 Crenshaw Blvd., NW corner of Crensaw and 43 rd (homeland), and is redeveloped with commercial retail businesses.	Low
В	301	Admires Scientific Cleaners, 3438 W 43 rd St, Los Angeles	Adjacent E	RCRAGN	Unclear if this facility had been a drycleaners; however, no cleaning business currently located onsite. Site area is occupied by an office building and McDonalds.	Low
В	2	Arco Station, 4371 Crenshaw Blvd., Los Angeles	Adjacent W	UST, RCRAGN, LUST	Gasoline release 2003. Closed 2004.	Low to Moderate
В	25	Shell Service, 3350 Vernon Ave., Los Angeles	Adjacent E	UST	Active	Low
В	112	Firestone/Rod Davis Property, 5300 Crenshaw Blvd., Los Angeles	Adjacent E	LUST	Gasoline release to soils only 1993. Closed 1995. Site not tested for MTBE.	Low to Moderate
В	245	Crenshaw Motors, 5311 Crenshaw Blvd., Los Angeles	Adjacent W	RCRANLR, UST	Active	Low
В	240	Boyd Peterson Oldsmobile, 5401 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Inactive	Low
В	66, 87, 88, 221	Harrison Ross Funeral Homes/Thrifty Payless, 5701-49 Crenshaw Blvd., Los Angeles	Adjacent W	UST, SPILLS	UST – noncertified/Active for current occupant. Spills – 1/3/02. No further action required. Closed.	Low
В	164	Continental Cleaners, 5700 S Crenshaw Blvd., Los Angeles	Adjacent E	RCRAGN	Cleaners	Low to Moderate
В	176	LA Fire Station 54, 5730 Crenshaw Blvd., Los Angeles	Adjacent E	RCRANLR, UST	Active	Low
В	201	Shell Station, 5805 Crenshaw Blvd., Los Angeles	Adjacent W	RCRANLR, UST, LUST, RCRAGN	Gasoline release to soils only 2003. Leak being confirmed. Not listed in Geotracker.	Moderate
В	180	Ray Fa Cleaners, 3286 W Slauson Ave., Los Angeles	.04 E	RCRAGN	Cleaners	Low
В	200	Arco, 5804 Crenshaw Blvd., Los Angeles	Adjacent E	UST, LUST	Arco Products Company, Gasoline release to soils only 1988. Vacuum extract. Closed 1994.	Low to Moderate
В	202	F and J Auto Clinic, 5975 Crenshaw Blvd., Los Angeles	Adjacent W	UST	Inactive	Low
В	79	Volvos Only, 6415 Crenshaw Blvd., Los Angeles	Adjacent W	RCRAGN	Haz waste info – Benzene, PCE, TCE, ignitable waste	Low
В	91	Golden Day Schools, 6422 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Noncertified	Low
В	14, 93	Former Crenshaw Collision Center/Crenshaw Body Shop, 6530 Crenshaw Blvd., Los Angeles	Adjacent E	LUST, RCRAGN, UST	Hydrocarbon release in 2003. Pollution characterization. Not listed in Geotracker.	Moderate
В	92	Eddie Valentin, 6666 Crenshaw Blvd., Los Angeles	Adjacent E	UST	Active	Low

Alignment		Facility Name and Address	~ Distance	Database	FirstSearch Details	Hazard Ranking
Option	ID#		from	Type	(may include regulatory agency review and/or site reconnaissance	
			Subject		information)	
			Property			
			(Miles)			



C1/C2	120	Batson Cleaners, 6732 Crenshaw Blvd., Los Angeles	.02 S	RCRAGN, UST	Cleaners; inactive UST	Low
C1/C2	267	Whistler Hardwoods, 6800 Victoria, Los Angeles	Adjacent S	UST	Active	Low
C1/C2	271	Frank Milne, 6810 West Blvd., Los Angeles	Adjacent N	UST	Inactive	Low
C1/C2	158	DAve. S Truck, 1135 E Florence Ave., Inglewood	Adjacent S	UST	Last update 1998, no status information	Low
C1/C2	322	Marine Cleaners, 6741 West Blvd., Inglewood	.10 N	RCRAGN	Cleaners	Low
C1/C2	148	Inglewood Park Cemetery, 720 E Florence Ave., Inglewood	Adjacent S	LUST, UST	Release to soils only 1997. Closed 1997. Diesel and Unleaded tanks. 3 USTs reported removed in 1987, 2 in 1997, and 2 remaining USTs.	Low
C1/C2	392	So Cal Gas Company, Inglewood Manufactured Gas Plant, 700 Warren Lane, Inglewood	Adjacent N	VCP, STATE	DTSC Envirostor website confirms that remediation was complete in 1995. Site is certified (cleanup complete). Site is currently Centinela Park.	Moderate
C1/C2	266	Delkay Plastics, 200 E Beach Ave., Inglewood	Adjacent N	NFRAP	1986-Discovery. 1987-Preliminary assessment. No further action planned. No details on type of release. Not listed in Geotracker.	Low to Moderate
C1/C2	94	Fujita Corp., 230 N La Brea Ave., Inglewood	Adjacent N	LUST, UST	Gasoline release 2002. Preliminary site assessment.	Moderate
C1/C2	113	Inglewood Car Wash, 320 N La Brea Ave., Inglewood	Adjacent N	LUST	Gasoline release to soils only 1991. Closed 1996.	Low to Moderate
C1	41, 42, 508	Simons, R.G. Estate; R.G.S. Estate I; R.G.S. Estate II, 435 & 447 North Eucalyptus Ave. & 400 Beach Blvd.	Adjacent N or ~.01 N	SWL	Solid Waste Assessment Test Site. Closed/cease discharge. Operator – Mobile Oil Company. Current land use – residential, park (Rogers Park), commercial. Regulatory status – to be determined.	Low
C1	75	SCE Inglewood Substation, 229 W Florence Ave., Inglewood	Adjacent N	RCRAGN	Large quantity generator, >1,000 kg/month (probable PCBs).	Low
C1	44, 89, 145	Faithful Central Baptist Church/Trinity Bldg E Parking Lot, 301 W Florence Ave., Inglewood	Adjacent N	SPILLS	1/3/02 – TPH, inactive. 11/6/07 – petroleum, case open.	Low to Moderate
C1	147	Trinity Building W Parking Lot, 401 W Florence Ave., Inglewood	Adjacent N	SPILLS	11/6/07 – Case closed.	Low to Moderate
C1	121	Blue Diamond Materials, 441 Railroad, Inglewood	Adjacent N	UST	Inactive	Low
C1	99	Cemex/Transit Mixed Concrete Company, 505 W Railroad Pl, Inglewood	Adjacent N	UST, LUST	Diesel release to soil only 1988. Excavate and dispose. Close 1996.	Low to Moderate
C1	276	Regent Point, 601 W Regent St, Inglewood	Adjacent S	UST	Installed 1965, removed 1998. Unsure if USTs remain onsite.	Low
C1	286	Mobil Oil Corp, 8307 La Cienega, Inglewood	Adjacent S	UST, LUST	Gasoline release 1990. Pollution characterization. Free product removal. 16 monitoring wells, including along Florence Ave.nue, adjacent to rail alignment. Gasoline compounds present in GW, max TPHg 9,700 ppb 8/13/07. Not sampled or non-detect in wells nearest railroad alignment. GW depth 92.84-100.13 ft bgs on 8/13/07.	High
C1	111	LAX Equipment, 830 W Florence Ave., Inglewood	.01 S	LUST	Diesel release 1999. Leak being confirmed.	Moderate
C1	139	Ryder Truck Rental, 5366 83 rd St, Los Angeles	Adjacent N	UST, RCRAGN, LUST	Lubricating release to soils only 2003. Remedial Action.	Low
C1	294	Kaplan Enterprises, 634 Gramercy, Los Angeles	Adjacent N	UST	Inactive	Low
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C1	213	Charles Caine Co, 8325 Hindry Ave., Los Angeles	.03 N	STATE, RCRAGN	Spray painting facility ~1950-1999. Prior, site used as machine shop and die-casting. 2000-removal of hazardous waste, site abandoned. Phase II assessment detected 800 ppm PCE, 5.6 ppm TCE, and other VOCs. Site impacted with VOCs and TRPH. Vertical and lateral extent not delineated. DTSC approved Remedial investigation workplan. Working on additional soil and VOCs sampling.	Moderate
C1	174	John MacFarlane, 8330 Hindry Ave., Los Angeles	Adjacent S	UST	Active	Low
C1	374	Ultra Cleaners, 1117 W Manchester Blvd., Inglewood	.06 SE	RCRAGN	Cleaners	Low
C1	252, 338, 347	P & S Service Station/Ziba Investment, 1100 & 1110 W Manchester Blvd., Inglewood	.09 SE	UST, LUST	Hydrocarbon release to soils only 1996. Leak being confirmed.	Low
C1	284	Shell, 1135 W Manchester Blvd., Inglewood	.01 S	RCRAGN, LUST, UST	Waste oil release to soils only 1986. Pollution characterization. Geotracker – 4 th Qtr '07 – TPHg 74-210 ppb, Benzene – ND-1.2; MTBE ND-110, DIPE ND-16. Five monitoring wells. GW 95.68-99.58. Gradient direction variable.	Moderate
C1	162, 175	Unocal/Tosco 76 Station/Sinai Western Properties, 8600 Aviation Blvd., Inglewood	.04 E	ERNS, LUST, UST	Gasoline release 1990. Remedial action. 7 onsite wells. Max free product – 54.36 feet. Currently only .01ft free product in one well. GW impacted with gasoline compounds. Also impacted with other VOCs such as PCE (1,800 ppb), TCE (1,600 ppb) – source unknown.	Moderate
C1	326, 430	Hewlett Packard, 5651 W Manchester Blvd., Westchester	.06 NW	LUST, UST	Release to soils only 1986. Closed 1990.	Low
C1	140	Budget Rent a Car/Spectrum Investment Corp, 5560 W Manchester Ave., Westchester/Los Angeles	Adjacent W	RCRAGN, LUST, UST	Hydrocarbon release 1992. Max MTBE 6,600 ppb. Geotracker - Remove free product and soil vapor extract. 8 wells, 1 st GW at unconfined semi-perched aquifer ~100 ft bgs. Max TPHg 96,500 ppb. Benzene 18,000 ppb. SW gradient. SVE system observed adjacent to tracks.	High
C1	268, 333	Tyco Printed Circuit Group, 8636 Aviation Blvd.	.06 SE	RCRACOR, RCRAGN	Large quantity generator, manufacturing electronic components. 2002, Remedial Feasibility Investigation Workplan, Electroplating Operations. Wastewater treatment sludges from electroplating operations except from 1) sulfuric acid anodizing of aluminum, 2) tin plating on carbon steel, 3) zinc plating on carbon steel; spent cyanide plating bath solutions from electroplating operations, ignitable and corrosive waste, chromium, arsenic, lead.	Low to Moderate
C1	332, 349	Frito Lay/Enterprise Rent A Car, 8734 Bellanca Ave., Los Angeles	Adjacent W	UST, LUST	Diesel release to soils only 1987. 2000 - Excavate and treat, included spreading or land farming.	Low to Moderate
C1	406	Certified Aircraft Processing/Hi-Grade Polishing & Plating Co, 8722 Aviation Blvd., Inglewood	.09 E	RCRAGN	Electroplating, plating, polishing, anodizing, and coloring	Low



Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject Property (Miles)	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
C1	440	Rho Chem Corp, 425 Isis Ave.nue, Inglewood	.13 E	RCRA, RCRACOR, OTHER, STATE, UST, NFRAP, LUST	DTSC Fact Sheet 2006 – 1.1 acre facility that recycles solvents. Facility transfers, treats, and stores haz waste. Facility operated since 1953 – bulk storage and distribution of oils, lubricants, and solvents. Began recycling solvents in 1964. Current operations include liquid fuel blending, solvent recycling, solvent distribution, and accepts solid waste for fuel blending. 3 drum storage areas, 23 ASTs. Initial assessment in 1983. Soils and GW at 100' bgs contaminated with chlorinated and non-chlorinated VOCs (see database report for list). Proposed SVE system.	Moderate
C1	313, 410	Your Man Tours, 8831 Aviation Blvd., Inglewood	Adjacent E	LUST, UST, RCRAGN	Diesel release to soils only 1992. Closed 1996.	Low to Moderate
C1	431	WTC Air Freight, 8900 Bellanca, Los Angeles	Adjacent W	UST	Inactive	Low
C1	312	Northrop University, 8911 S Aviation Blvd., Inglewood	Adjacent E	UST	Leaded gasoline 1992. Unsure if tank is present or has been removed.	Low
C1	318, 331	Merle Norman Cosmetics, 9130 Bellanca, Inglewood	Adjacent W	UST, LUST	Gasoline release 1990. Closed 1997.	Low to Moderate
C1	316	Harry's Airport Garage, 9131 S Aviation Blvd., Inglewood	.04 E	LUST, UST	Gasoline release 1994. Remediation plan.	Low to Moderate
C1	182, 299, 306, 314, 317, 413	Formerly Freight Forwarders/Union Bank/Estate of Joseph Collin/Bodycote Hinderliter/Inglewood Suppliers/Sunsetting Auto Body, 9007 – 9121 Aviation Blvd., Inglewood	.04 E	LUST, SPILLS, UST, RCRAGN	LUST – Gasoline release 1990. Closed 2004, not tested for MTBE. Spills – VOCs, site assessment. Geotracker – release 1988. 1997 – Pollution characterization. No later records. LUST – hydrocarbon release to soils only 1996. Excavate and dispose. Close 1997. LUST – hydrocarbon release to soils only 1993. Remedial actions other than those accounted for by the codes have taken place. Preliminary site assessment work plan submitted.	Moderate
C1	257, 277	Princeland Properties, 1237 W. Arbor Vitae St, Inglewood	Adjacent E	SPILLS, UST	11//07. Remedial action underway – no additional information. 1/3/02 – Remediation VOCS. UST listing indicates removal of all USTs.	Moderate
C1	348, 335	California Avitron Corp/Alamo Rent-A-Car, 8900 - 9020 Aviation Blvd., Inglewood	.09 E	STATE, UST, OTHER, UST, LUST, NFRAP	Cal. Avitron – manufacture of aircraft parts, machining, painting, degreasing, cleaning, treating (1950-1985 at least). 1986 – Preliminary assessment submitted to EPA. 1994 – Database verification confirms no further action by DTSC. 1995 – Refer to County. Potential contaminants: Acid solution 2>pH with metals, sludge – degreasing, paint; unspecified acid solution, sludge waste, and solvent mixtures; waste oil and mixed oil. LUST – release to soils only 2004. Leak being confirmed.	Low to Moderate
C1	116	King Delivery Inc, 5600 Arbor Vitae, Westchester (LA)	Adjacent W	UST, LUST	Gasoline release 1987. Remedial action. Cap site, cleanup and abatement orders. Geotracker - 4 onsite wells west of railroad, 3 offsite to the east. TPHg – 3,600 to 200,000 ppb, Benzene 310 – 28,000 ppb. GW 92.23 – 97.81 ft bgs.	High



Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from Subject	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance information)	Hazard Ranking
			Property (Miles)			
C1	179, 307, 308, 309	Garrett Airesearch/Honeywell International Corp/Hertz Rent-A-Car, 9225 Aviation Blvd., Los Angeles	Adjacent E	RCRAGN, UST, SPILLS	11/6/07 – Petroleum, VOCs, verification monitoring underway. Listed as Brownfield site on Geotracker.	Moderate
C1	228, 238	Blanca Air Freight/Allan Jones, 9320 & 9326 Bellanca, Los Angeles	Adjacent W	UST	Active	Low
C1	248	Flying Tiger Line, Inc, 9432 Bellanca, Los Angeles	Adjacent W	UST	Inactive	Low
C1	370	Ampco Park/Regency Development/Wally Park/Arrowsmith Industries, 9700 Bellanca Ave., Los Angeles	Adjacent W	UST, OTHER, UST, RCRAGN	UST – active. Other – abated 7/1/89, no additional information.	Low
C1	311	Texaco Station, 5551 W Century Blvd., Los Angeles	Adjacent E	RCRAGN, UST	Active	Low
C1	378, 404	Unocal/Airport Union Service/Circle K Stores/76 Products Station, 5552 W Century Blvd., Los Angeles	Adjacent E	ERNS, UST, LUST	Hydrocarbon release to soils only 1994. Closed 1999.	Low
C1	498, 541	Thrifty Car Rental, 5440 W Century Blvd., Los Angeles	.18 E	UST, LUST	Release of aviation gasoline and additives 1993 and 2001. Pollution characterization. Vertical and lateral extent in soil has been addressed. Extent of GW contamination not assessed. 10 monitoring wells. GW 52.6-59.9 ft bgs 3/28/07. Gradient southwest.	Low
C1	129	Northwest Orient Cargo, 11101 Aviation, Los Angeles	Adjacent W	UST	Inactive	Low
C2	97	Carriage Cleaners, 246 N Market Blvd., Inglewood	Adjacent E	RCRAGN	No car or dry cleaners onsite during recon. Occupied by retail stores. ~225 ft parking lot between Market St. & stores.	Low
C2	98	Pep Boys, 200 E Spruce Ave., Inglewood	Adjacent E	UST	Tanks removed in 1992 & 2004. Existing tanks?	Low
C2	105, 114	Prince Dodge, Inc./Airline Coach Service, 636 S La Brea Ave., Inglewood	Adjacent E	UST, LUST	Waste oil release 2002. Leak being confirmed. Not listed on Geotracker	Low to Moderate
C2	80	Toyota of Inglewood, 700 S La Brea Ave., Inglewood	Adjacent E	RCRAGN, LUST, UST	Gasoline release to soils only 1991. Closed 1993. Site not tested for MTBE.	Low to Moderate
C2	35	Tosco/Unocal, 843 S La Brea Ave., Inglewood	Adjacent W	UST, LUST	Gasoline release to soils only 1990. Closed 1998.	Low to Moderate
C2	96	U-Haul, 964 S La Brea Ave., Inglewood	Adjacent E	UST	1 fuel tank removed 1987. 2 fuel tanks removed 1996. Existing tanks?	Low
C2	217	Paragon Cleaners, 959 S La Brea Ave., Inglewood	Adjacent W	RCRAGN	Cleaners	Low to Moderate
C2	50	Delorme Chevrolet, 1175 S La Brea Ave., Inglewood	Adjacent W	LUST, RCRANLR	Waste oil release to soils only 1988. Closed 1990.	Low
C2	95, 215	Winston Tire Co, 1140 S La Brea Ave., Los Angeles	Adjacent E	UST, RCRAGN	Active	Low
C2	372	Platinum Stereo, 4490 W Century Blvd., Inglewood	.08 W	LUST	Gasoline release to soils only. Leak being confirmed. Topographically down-gradient. Appears to be hydrogeologically down-gradient.	Low
C2	85	Byront's Auto Repair/Henry's Auto Repair, 10101 S Hawthorne Blvd., Inglewood	Adjacent W	UST, RCRAGN	Waste oil UST	Low
C2	30	My Tire Store, 10127 S Hawthorne Blvd., Inglewood	Adjacent W	UST	Waste oil UST and gasoline UST removed in 1998. Existing tanks?	Low
Alignment Option	FirstSearch ID#	Facility Name and Address	~ Distance from	Database Type	FirstSearch Details (may include regulatory agency review and/or site reconnaissance	Hazard Rankinş



			Subject		information)	
			Property			
			(Miles)			
C2	26	El Rancho Market, 10412 S Hawthorne Blvd., Inglewood	Adjacent E	UST	Gasoline and Waste Oil USTs, removed 1998. Existing tanks?	Low
C2	23	Lennox Car Wash, 10709 Hawthorne Blvd., Lennox	Adjacent W	UST, LUST	Gasoline release in 1990. MTBE in GW up to 49 ppb. Soil vapor	Low to Moderate
					extraction operated. Closed 1999.	
C2	24	Credit Auto Center Inc, 10914 S Hawthorne Blvd.,	Adjacent E	UST	Waste oil UST	Low
		Inglewood				



4.3 Additional Environmental Record Sources

4.3.1 Regulatory Agency Consultations

Leighton Consulting requested regulatory records from the agencies listed below for the following addresses associated with the affected parcels: 1600 Wellington Road; 1601, 1611, 1615, 1614, 1620, 1626, and1632 Victoria Avenue; 1625, 1641, 1645, 1703, 1707, 1709, 1717, 1721, 1727, 3628, 3630, 3642, 3644, 3646, 3650, 3656, 3660, 3662, 3668, 3670, 3680, 3684, 3690, 3694, 3698, 3722, 3724, 3726, 3728, 3730, and 3732 Crenshaw Boulevard; 4526, 4550, 4600, 4646, and 4700 Pico Boulevard; and 3515 and 3519 Rodeo Road. All of the regulatory agency reviews are included in Appendix G (see included CD).

Southern California Air Quality Management District (SCAQMD)

On April 7, 2008, Leighton Consulting reviewed the Facility Information Detail System (FIND) for the SCAQMD files. The FINDS review indicated that records were found for the following affected parcels: 3628, 3650, 3670, and 3730 Crenshaw Boulevard. The records reviewed are summarized in the following tables:

3628 Crenshaw Boulevard - 20th Century Plastics, Inc. Plating & Polishing

Date	Permit Type	Status
08/16/1990	Oven, Drying, Screen Printing	Application cancelled
06/21/1985	Printing Press Misc. Heat Set	Inactive

3650 Crenshaw Boulevard - Cameo Cleaners

Date	Permit Type	Status
02/23/2001	Vapor recovery unit, compress	Inactive
	& condense	
02/23/2001	Dry Cleaning, dry-to-dry, non- Inactive	
	vent, Perchloroethylene	
04/24/2002	Dry Cleaning, dry-to-dry, NV,	Active
	W/ SIC, Perchloroethylene	



3670 Crenshaw Boulevard - Ralphs Grocery

Date	Permit Type	Status
04/14/2000	Rule 1415 plan notification -	Banking/Plant Granted
02/14/2006	Plans excavation	

3730 Crenshaw Boulevard - H & S Holidav Bowl, Inc.

Date	Permit Type	Status
09/28/1992	Charbroiler – Natural Gas	Inactive

Department of Toxic Substance Control (DTSC)

On April 7, 2008, file review requests were forwarded to the DTSC-Chatsworth Division and the DTSC-Cypress Division via facsimile.

On April 24, 2008, Ms. Vivien Tutaan of the DTSC-Chatsworth office indicated via mail that there were no records for the addresses requested.

On May 6, 2008, Leighton Consulting called the DTSC-Cypress office to inquire about the status of the records request. According to Ms. Julie Johnson, they had not received the file review request sent on April 7, 2008; therefore, the request was again sent via facsimile on May 6 and 13, 2008. On May 15, 2008, Ms. Julie Johnson of the DTSC-Cypress office indicated via mail that there were no records for the addresses requested.

On May 9, 2008, a records request was emailed to Ms. Jone Barrio of the DTSC-Cypress office regarding a listing on the FirstSearchTM report that appeared to be located on the subject property: BNSF HR-LA-C-GET-HB-3/HB-4, Railroad Right-of-Way, 550 South of Arbor Vitae, Los Angeles. The local agency for this site was listed as Branch: So Cal – Cypress. The local agency in Cypress appears to be the DTSC. According to Ms. Jone Barrio, who returned a phone call on May 12, 2008, the DTSC-Cypress office has no records for this site.

City of Los Angeles, Bureau of Sanitation, Industrial Waste Management Division

On April 7, 2008, a file review request was forwarded to the Los Angeles Industrial Waste Management Division via facsimile. A response letter dated April 15, 2008 and records were received via mail for the following addresses: 4700 Pico Boulevard, 3515 Rodeo Road, and 3630, 3642, 3644, 3656, 3515,



3650, 3660, 3670, 3724, 3728, and 3730 Crenshaw Boulevard. All of the records reviewed pertained to restaurant establishments with the exception of the following:

- 1. Gulf Oil Corporation located at 3630 Crenshaw Boulevard. Processes involved auto lube and wash, and waste water included detergents and oils. According to the permit conditions, the facility was required to adopt and use a program of regular and frequent maintenance and skimming of the clarifier so as to prevent the discharge of grease, oil, and/or industrial waste in excess of the legal limits into the sanitary sewer.
- 2. Clean King Laundry Services, a coin laundry Laundromat located at 3644 Crenshaw Boulevard. The permit code for the site was listed as "coin-operated laundries and dry cleaning", however, no dry cleaning activities were observed on the premises during the site inspection.
- 3. Gulf Oil Company, located at 3644 Crenshaw Boulevard. Processes involved included a wash service station and minor auto repairs and waste water included grease and oil from wash-up.
- 4. Cameo Cleaners, a dry cleaning and laundry establishment located at 3650 Crenshaw Boulevard.
- 5. Rocket Cleaners, listed as "laundries linen and general", located at 3650 Crenshaw Boulevard.
- 6. Walgreen Company, One-Hour Photo Lab, located at 3724 Crenshaw Boulevard.
- 7. Holiday Bowl, a bowling alley, coffee shop, and dining room, located at 3730 Crenshaw Boulevard, generating waste water composed of commercial dishwashing compound, soap, and detergent from equipment and floor washing activities.

Regional Water Quality Control Board (RWQCB)

On April 7, 2008, a file review request was forwarded to the Los Angeles RWQCB Spills, Leaks, and Investigations (SLIC), Well Investigation Program (WIP), and UST Divisions via facsimile.



On April 9, 2008, Ms. Oronne Wami of the RWQCB, WIP Division indicated via telephone and email that no records were found for any of the addresses requested.

On April 16, Mr. Matt Gunter of the RWQCB, UST Division indicated via telephone that no records were found for the addresses requested.

On April 16, Ms. Daisy of the RWQCB, SLIC Division indicated via telephone that no records were found for the addresses requested with the exception of 3650 South Crenshaw Boulevard. The SLIC records available for 3650 Crenshaw Boulevard were reviewed on the Geotracker database on May 6, 2008. According to these records, Cameo Cleaners had a release of PCE and TCE to groundwater. No additional information was available on the database.

Los Angeles Fire Department (LAFD), Hazardous Materials Division

On April 8, 2008, a file review request was forwarded to the LAFD, Hazardous Materials Division, via facsimile. The response forms were returned via facsimile on April 9, 2008. No information was on file for any of the addresses with the exception of 3650 and 3670 Crenshaw Boulevard and 4550 Pico Boulevard.

A file review was conducted at the LAFD, Hazardous Materials Division, on May 8, 2008, and is summarized in the following paragraphs:

- 1. Cameo Cleaners, 3650 Crenshaw Boulevard, was reported to store up to 400 gallons of pure tetrachloroethylene in steel drums onsite for its dry cleaning operations, as well as up to 55 gallons of tetrachloroethylene waste. Permit dates ranged from 1998 to 2007.
- 2. Ralph's Grocery, 3670 Crenshaw Boulevard, was reported to store chlorine bleach consumer product, Freon 22, Freon 408A, Freon 502, helium, laundry detergent, anti-freeze consumer products, charcoal lighter consumer products, deodorants, drain cleaner consumer products, engine cleaners, hair spray, insecticide consumer products, motor oil, oven cleaner consumer products, rubbing alcohol, and toilet bowl cleaners.
- 3. Builders Discount, 4550 Pico Boulevard, was reported to store numerous retail construction products.



Los Angeles Fire Department (LAFD), Underground Storage Tank (UST) Division

On April 8, 2008, a file review request was forwarded to the LAFD, UST Division, via facsimile. Fire fighter Kehoe responded to Leighton via telephone that records were available for 3628, 3630, and 3644 Crenshaw Boulevard. In addition, Ms. Katie responded to Leighton via telephone that records were also available for 4526 and 4550 Pico Boulevard.

A file review was conducted at the LAFD, UST Division, on May 8, 2008, and the results are summarized in the following tables:

3628 Crenshaw Boulevard (Adjacent Parcel)

Date	Owner	Description
02/19/97	20 th Century Plastics	Haz waste manifest – 99% water, 1% oil.
03/19/97	20 th Century Plastics	UST Closure Activities Report (Park Corporation, 1997), 1-10,000 gallon diesel UST, located in southeast corner of property, ~ 500 ft. east of Crenshaw Blvd. UST removed on 2/19/97. Soil and groundwater not impacted with petroleum hydrocarbons. Site lies within a regional groundwater plume of halogenated volatile organic compounds (VOCs) and groundwater conditions have been monitored for several years. Site map shows wells located east and west of Crenshaw Blvd.
06/30/00	West Angeles Church	No Further Action at this time letter

3630 Crenshaw Boulevard (Affected Parcel)

Date	Owner	Description
03/31/81	Not Stated	Notification of UST abandonment, 3 USTs, 2-
		10,000-gallon USTs, 1-8,000-gallon UST.
		Sketch showed USTs to be fronting Rodeo
		Road, north of Crenshaw Blvd.



3644 Crenshaw Boulevard - formerly 3630 Crenshaw Blvd. (Affected Parcel)

Date	Owner	Description	
06/09/47	Craig Oil Co.	3-4,000 gallon gasoline USTs, 1-3,000 gallon	
		gasoline UST, 1-550-gallon waste oil UST.	
		Notes were added for abandonment of two of	
		the 4,000-gallon USTs on 1/4/66.	
03/18/48	Craig Oil Co. Inc.	Chain of occupancy, 24' x 138' service station	
03/09/54	Colorado Self	3-4,000-gallon USTs, 1-3,000-gallon UST, 1-	
	Service Inc.	500-gallon UST. Note that all tanks were	
		abandoned on 5/17/68 (however no removal	
		permits were reviewed for the 3,000 gallon	
		UST).	
12/15/65	Gulf Oil Corp.	Plans – Storage Tank Replacement. Approved	
		1/4/65. 4 USTs fronting Crenshaw Blvd. Noted	
		removal of 2-4,000-gallon USTs and relocation	
		of 1-8,0000-gallon UST and 1-9,400-gallon	
		UST to front Rodeo Road, east of service	
		station.	
12/30/65	Gulf Oil corp.	Application for permit – Relocated 1-8,000-	
		gallon UST and 1-9,940-gallon UST	
01/04/66	Gulf Oil Corp.	Install 2 atmospheric tanks	
01/04/66	Gulf Oil Corp.	Abandon 2 atmospheric tanks	
01/05/66	Not Stated	Notification of UST abandonment – 2-4,000-	
		gallon USTs removed in compliance with Fire	
		Department regulations	
05/09/68	Gulf Oil Corp.	Install 4 atmospheric tanks, shop built and	
		abandon 3 atmospheric tanks	
05/09/68	Gulf Oil Corp.	Application for permit – 1-9,940-gallon UST,	
		1-280-gallon UST, 1-9,940-gallon used UST, 1-	
		8,000-gallon used tank; abandon 3 tanks	
05/10/68	Gulf Oil Corp.	Authorization to install 4 atmospheric tanks.	
05/13/68	Gulf Oil Corp.	Application for permit $-2-4,000$ -gallon USTs,	
		1-waste oil UST.	
05/15/68	Gulf Oil Corp.	Abandon 3 atmospheric tanks	
No Date	Not Stated	Notification of UST abandonment – 2-4,000-	
		gallon USTs and 1-1,000-gallon waste oil	
		removed in compliance with Fire Department	
		regulations. Plan indicated the relocation of 1-	



		8,000-gallon UST and 1-10,000 UST (elsewhere referred to 9,940 gallon). * This
		document did not expressly refer to the 3,000
		gallon UST installed in 1947.
06/16/69	Crenshaw Rodeo	Auto fueling station
	Gulf	
06/26/73	Mons Gulf	Auto fueling station, formerly at 2349
		Crenshaw Blvd.
07/09/74	Gulf Oil Co.	Alteration of piping
07/29/74	Gulf Oil Co.	Install vapor recovery system
03/28/78	Gulf Oil Co.	Permit to transfer liquefied flammable gas in a
		manner not otherwise regulated

No removal reports or closure letters were available for this facility

UST Summary for 3630 and 3644 Crenshaw Boulevard (Affected Parcel)

Installation Date	Tank Size & Contents	Removal Date
06/09/47	4,000 gallon gasoline	01/04/66
06/09/47	4,000 gallon gasoline	01/04/66
06/09/47	4,000 gallon gasoline	05/15/68
06/09/47	3,000 gallon gasoline	*05/17/68 (?)
06/09/47	550 gallon waste oil	5/15/68
Not stated	8,000 gallon gasoline	03/31/81
Relocated 05/09/68		
Not Stated	9,940 gallon gasoline (also referred	03/31/81
Relocated 05/09/68	to as 10,000 gallon)	
05/09/68	9,940 gallon gasoline (also referred	03/31/81
	to as 10,000 gallon)	
05/09/68	280 gallon, content not listed,	Not stated
	presumed waste oil	

^{*} A note on the 03/09/54 document stated that all tanks were abandoned on 05/17/1968; however, none of the permits or Notification of Abandonments issued from the Fire Department expressly referred to the 3,000 gallon UST, and no maps indicated its location.



4526 Pico Boulevard (Affected Parcel)

Date	Owner	Description
10/11/48	City of LA, Bureau of	Install 1,200 gallon gasoline UST on south
	Construction & Bldg.	side of street between West Blvd. and
	Maintenance	Highland Ave. Previous permit granted 10-
		6-25. Remark: 1-550 filled with sand 11-2-
		49.
01/28/69	City of LA Wilshire	Application for fire permit, auto fueling
	Police Dept	facility, started 12/13/1962
09/20/73	Wilshire Police Dept.	Request for sprinkler piping modification
03/26/75	City of LA	Abandon 5,000 gallon atmospheric tank
04/30/75	Roger Ray Inc.	Abandon atmospheric tanks
04/30/75	Roger Ray Inc.	Abandon atmospheric tanks
05/28/75	City of LA, City Hall	Abandon 2,000 gallon gasoline tank

No site maps, removal reports, or closure letters were available for this facility

4550 Pico Boulevard (Affected Parcel)

Date	Owner	Description
11/09/88	Sears Auto Center	Plans to remove four oil USTs
11/14/88	Sears	Permit application to remove 4 USTs
03/02/89	Not Stated	UST Unit cover letter indicating site with no
		contamination.
01/24/89	Not Stated	Notice of Abandonment of 4 USTs in
		compliance with FD regulations, signed by fire
		inspector.
03/07/89	Sears	UST Removal Report (PIC, 1989). Waste oil
		USTs were located in a concrete vault. No total
		petroleum hydrocarbons (TPH) detected in soil
		beneath vault.



10/05	CIM/PICO LP	UST Removal and Soil Remediation Report
		(Earth Tech, 2005). 2 USTs discovered during
		site redevelopment, in vicinity of current retail
		stores at 4700 Pico Blvd., ~ 100 ft. east of San
		Vicente Blvd. One contained heavy petroleum
		(minor spill at time of discovery) and the other
		filled with a sand/cement slurry. Removed
		5/26/05. Over-excavation of impacted soil.
		Minor TPH and gas related VOCs in one soil
		sample. Concluded no significant impact and no
		further action.
04/25/06	CIM/PICO LP	No Further Action at this time letter

LAFD UST Review Summary:

3628 Crenshaw Boulevard – A 10,000 gallon diesel UST was removed in 1997. A closure letter was issued in 2000. The UST was located at the southeast corner of the property, approximately 500 feet east of Crenshaw Boulevard. The site has since been redeveloped with West Angeles Church. Based on the closure letter and the absence of petroleum hydrocarbons detected in the soil or the groundwater, this former UST is not expected to negatively impact the subject property; however, based on the former usage of this property as an electronics manufacturing facility, Gilfillan Bros. Inc., in the 1950s and 1960s, and its presence within a regional groundwater plume, this facility has a moderate potential to negatively impact the subject property.

3630 & 3644 Crenshaw Boulevard - There is no documentation of the removal of the 280 gallon UST and it is unclear if the 3,000 gallon UST was removed from the site. Maps indicated that at least four gasoline USTs previously fronted Crenshaw Boulevard at the northeast intersection with Rodeo Road. There was no documentation for environmental sampling from beneath the USTs when they were removed, and this location has a high potential to negatively impact the subject property.

4526 Pico Boulevard – A 2,000-gallon and 5,000 gallon UST were removed from the site in 1975. In addition, it appears that a 550-gallon UST of unknown contents was filled in place with sand in 1949 and there is no evidence of its removal. No maps indicated the location of these USTs in the file; however, a



1954 Sanborn Map shows that the Police Department was located just south of Pico Boulevard at the Pico Boulevard and Muirfield Road intersection, approximately 400 feet east of the proposed alignment on a separate parcel (not located on an affected parcel). There was no documentation of environmental sampling beneath any of the USTs; however, due to the distance of the proposed alignments and the present construction and excavation activities at this location, it is expected to have low potential to adversely affect the subject property.

4550 Pico Boulevard - Based on closure letter, distance to the proposed alignment, and/or low or no concentrations of TPH or VOCs detected in the soil beneath the USTs, they are expected to have low to moderate potential to adversely affect the subject property. However, a site plan included in the UST removal report depicted a historical crude oil tank in the vicinity of the proposed alignment, near the junction of San Vicente Boulevard and Venice Boulevard. No information for this tank was found and it is not certain what facility used this tank. This is expected to have moderate potential to adversely affect the subject property.

State of California Radon Survey

In 1990, the State of California conducted a radon survey in the state. The results of the survey indicate that for the 182 samples obtained from residential homes in Region 9, which includes Los Angeles County, the arithmetic mean radon levels were 0.6 picoCuries per liter of air (pCi/l). This average total is below the U. S. EPA radon action level of 4 pCi/l of air. Therefore, the potential for elevated radon levels at the site appears to be low (California Department of Health Services, 1990).

4.4 <u>Historical Use Information on the Property</u>

Leighton Consulting reviewed selected historical information on the subject property. These references were reviewed for evidence of activities, which would suggest the potential presence of hazardous substances at the subject property and to evaluate the potential for the subject property to be impacted by offsite sources of contamination. The following paragraphs are a chronological summary of the review.



4.4.1 Aerial Photographs

Historical aerial photographs were reviewed for information regarding past subject property uses. Aerial photographs were reviewed for the following years: 1928, 1938, 1947, 1952, 1968, 1976, 1982, 1994, and 2002. Copies of the aerial photographs are included in Appendix H; however, detail is difficult to discern on the inserts; therefore, digital copies showing the site location, have been included in the CD insert.

1928: The subject property appeared to be occupied by streets and a railroad right-of-way, similar in configuration as it appears today. La Brea Boulevard, between Dockweiler Street and San Vicente Boulevard (1 block) had not yet been reoriented and straightened to its present position, slightly east of its former location (one lane of the pre-existing La Brea Boulevard is still present). A transportation feature appeared to extend between Pico Boulevard and Venice Boulevard at San Vicente Boulevard; according to the 1927 Sanborn Map, the Pacific Electric Railroad right-of-way extends along San Vicente Boulevard and through this area; however, San Vicente Boulevard itself does not extend between Pico Boulevard and Venice Boulevard. The affected parcel at this location appears to possibly have been used for lumberyard or industrial purposes. The affected parcels at Venice Boulevard, between Wellington Road and Crenshaw Boulevard, appeared to be occupied by residential houses and undeveloped parcels. The affected parcels East of Crenshaw Boulevard, between Exposition Boulevard and Coliseum Street appeared to be occupied by vacant land (possible agricultural usage). A railroad right-of-way appeared to extend along Exposition Boulevard at Crenshaw Boulevard. Interstates 10, 105 and 405 appeared to have not yet been constructed.

Adjacent properties and the surrounding vicinity appeared to be occupied primarily by residential and commercial structures in Sections A1 and A2, from Wilshire Boulevard to Exposition Boulevard; however, there appeared to be large structures between Pico Boulevard and Venice Boulevard that may be industrial. In addition, there was a large aboveground storage tank located at Exposition Boulevard and 12th Street, approximately 950 feet east of Crenshaw Boulevard (labeled as gas tank on 1950 topographic map). The central portion of the subject property, Section B, appeared to be occupied primarily by vacant land (possibly some agricultural usage) between Exposition Boulevard and Stocker Street; however, there were a few structures and a possible airstrip located west of Crenshaw Boulevard and the area was labeled as "American Airport". The



southern portion of this area appeared to be occupied primarily by commercial and residential structures. The C1/C2 and C-2 alignment appeared to be occupied primarily by residential and commercial structures, some vacant parcels, a cemetery, and an industrial facility north of the cemetary. The C-1 alignment appeared to be occupied primarily by commercial and industrial structures and agricultural land/scattered structures west and south of Manchester Boulevard. West of Aviation Boulevard (then Redondo Boulevard), between Century Boulevard and Imperial Highway, it appeared that a runway had been constructed and there were several scattered structures. The property for the Los Angeles International Airport (then known as Mines Field) was purchased in 1928 and initially dirt landing strips were constructed. Previously the land had been occupied by agricultural fields.

1938: The subject property appeared to be relatively unchanged from the 1928 aerial photograph. The affected parcels area east of Crenshaw Boulevard, between Exposition Boulevard and 39th Street appeared to be occupied by vacant land with the exception of a structure located in the southeast corner of Crenshaw Boulevard and Exposition Boulevard.

There appeared to be some additional development in the vicinity of the subject property; however, the adjacent and surrounding property appeared to be similar to the 1928 aerial photograph. The American Airport was not identified south of Exposition Boulevard. Centinela Park appeared to exist north of Inglewood Park Cemetery; however, it may have still been undergoing development. An airport hangar appeared to have been constructed at the northwest corner of Aviation Boulevard and Imperial Highway and the previous structures in the airport vicinity appeared to have been demolished. There appeared to be a possible pond feature, in the shape of a figure 8, located to the east of the airport hangar and Aviation Boulevard.

1947: The subject property appeared to be relatively unchanged from the 1938 aerial photograph, with the exception that there appeared to be at least three residential or commercial structures located east of the former La Brea Boulevard (the present La Brea alignment). The adjacent sites appeared to be almost completely developed with residential, commercial, or industrial property, with the exception of some vacant land immediately adjacent to Crenshaw Boulevard between Rodeo Road and 39th Street and some vacant parcels east and west of Aviation Boulevard, south of Manchester Boulevard. The Los Angeles



International Airport appeared to be developed between Aviation Boulevard and Sepulveda Boulevard.

1952: The subject property appeared to be relatively unchanged from the 1947 aerial photograph. The affected parcels area east of Crenshaw Boulevard, between Exposition Boulevard and Coliseum Street appeared to be occupied by commercial property, and between Coliseum Street and 39th Street it appeared to be occupied by vacant land.

The adjacent sites appeared to be almost completely developed with residential, commercial (including a park and a cemetery), and industrial property. Industrial areas appeared to be primarily concentrated north of Florence Avenue and east and west of Aviation Boulevard. The Los Angeles International Airport appeared to be developed west of Aviation Boulevard, between Aviation Boulevard and Sepulveda Boulevard, with a vacant parcel directly east of Aviation and the airport runway, for incoming planes.

1968, 1976, 1982, 1994, and 2002: The subject property appeared to be relatively unchanged from the 1952 aerial photograph, with the exception that the Pacific Electric Railroad did not appear to be located along San Vicente Boulevard and San Vicente Boulevard appeared to extend between Pico Boulevard and Venice Boulevard. This newly constructed portion of San Vicente Boulevard appeared to follow the path of the railroad near Pico Boulevard and then jog to the south through vacant land to join up with Venice Boulevard at Vineyard Avenue. The affected parcels area east of Crenshaw Boulevard, between Exposition Boulevard and 39th Street appeared to be occupied by commercial structures. In addition, Interstates 10 and 405 appeared to have been constructed and the associated overpasses were constructed along Crenshaw Boulevard at Interstate 10 and along Florence Avenue/railroad right-of-way at Interstate 405.

The adjacent sites appeared to be completely developed with residential, commercial (including a park and a cemetery), and industrial property. Industrial areas appeared to be primarily concentrated north of Florence Avenue and east and west of Aviation Boulevard. The Los Angeles International Airport appeared to be developed west of Aviation Boulevard and south of Century Boulevard, with a vacant parcel directly east of Aviation and the airport runway, for incoming planes. The aboveground storage tank previously located at Exposition Boulevard and 12th Street appeared to have been removed. Redevelopment of some parcels



adjacent to the subject property occurred between the 1968 and 2002 aerial photographs.

4.4.2 <u>Historical Topographic Maps</u>

Historical topographic maps were reviewed for information regarding past subject property uses. Topographic maps were reviewed for the following years: 1950 (Beverly Hills, Venice, and Inglewood quadrangles), 1953 (Hollywood quadrangle), 1964 (Venice and Inglewood quadrangles), 1966 (Beverly Hills and Hollywood quadrangles), 1972, and 1981. Copies of the topographic maps are included in Appendix I; however, detail is difficult to discern on the inserts; therefore, digital copies, including notes regarding selected features, have been included in the CD insert.

1950/1953: The subject property is primarily depicted in a red-shaded area indicative of a developed or "built up" area, where only primary structures are shown. Select areas are depicted in white areas that depict the structures present. The subject property appears to be relatively unchanged from its present configuration of roads and the A.T. & S.F. railroad right-of-way, with the exception that San Vicente Boulevard presently extends from Pico Boulevard to Venice Boulevard; however, in the 1950 topographic map a structure, a circular feature identified as "Sandpipe", and an intermittent stream is identified in this area. The Pacific Electric Railroad was depicted along Exposition Boulevard and Crenshaw Boulevard. In addition, Interstates 10, 105 and 405 had not yet been constructed; therefore, the overpasses at these freeways did not yet exist.

Primary structures including churches, schools, and unidentified buildings are noted adjacent to the subject property. An aboveground gas tank is identified at Exposition Boulevard and 12th Street, approximately 950 feet east of Crenshaw Boulevard. Centinela Park and Inglewood Park Cemetery are depicted in their present location at Florence Avenue and Prairie Avenue. Los Angeles International Airport is also depicted at its present location west of Aviation Boulevard between Century Boulevard and Imperial Highway. Two oil tanks are depicted adjacent to the east of Aviation Boulevard at 111th Street.



1964/66: Changes to note from the 1950/53 topographic maps:

- Interstate 10 and 405 had been constructed;
- The orientation of La Brea Boulevard (the subject property) was altered slightly between Dockweiler Street and San Vicente Boulevard.
- San Vicente Boulevard extended from Pico Boulevard to Venice Boulevard, the sandpipe feature was not identified, and new structures had been built;
- The aboveground gas tank was not depicted at Exposition Boulevard and 12th Street. The railroad at Exposition Boulevard was identified as Southern Pacific;
- A shopping center was depicted west of Crenshaw Boulevard at Santa Barbara; and
- The oil tanks were not depicted at Aviation Boulevard and 111th Street.

1972: No significant changes or items of concern were identified on or adjacent to the subject property on the 1972 topographic map. Building additions since the 1964/1966 maps were identified in purple.

1981: No significant changes or items of concern were identified on or adjacent to the subject property on the 1981 topographic map.

4.4.3 Fire Insurance Maps

Fire insurance maps, or Sanborn[®] maps, are detailed city plans showing building footprints, construction details, use of structure, street address, etc. The maps were designed to assist fire insurance agents in determining the degree of hazard associated with a particular property. Sanborn maps were produced from approximately 1867 to the present for commercial, industrial, and residential sections of approximately 12,000 cities and towns in the United States.

Sanborn[®] map coverage was available for portions of the subject property for the following years: 1927, 1929, 1931, 1950, 1954, 1966, and 1969. The subject property was identified to consist of the present-day alignment of streets and the railroad right-of-way. The Sanborn[®] maps and a summary review of the Sanborn[®] maps, listing businesses adjacent to the subject property alignment, that potentially



used or stored hazardous materials or waste onsite, are included in Appendix J (see CD insert for Sanborn® maps). Numerous industrial facilities, manufacturing facilities, gas stations, laundry and/or dry cleaners, auto service stations, auto wrecking, and painting facilities were identified adjacent to the proposed subject property alignment on the Sanborn® maps. In addition, an asphalt plant, salvage yard, metal melting and salvage yard, airplane factory, and plating facilities were identified adjacent to the proposed alignment.

4.4.4 Property Tax Files

Property tax files were reviewed on the Los Angeles County Assessor's website for the affected parcels. Information printed from this website is included in Appendix C; however, it does not include the 2007 annual tax report.

4.4.5 Recorded Land Title Records

Chain of Title Reports were not provided by METRO.

4.4.6 <u>Building Department, Zoning and/or Land Use Records</u>

On April 9 and 10, 2008, selected permits for the addresses associated with the affected parcels (with the exception of the residential properties) were reviewed at the City of Los Angeles Department of Building and Safety. The building permits that indicate a potential environmental concern, based on the tenant name and/or permit type, are listed below.

Date	Address	Owner and/or Tenant	Permit Type and/or Building Use
10/00/1026	4600 B; B1 1	1 0 1 1 2 1 1 2	-
10/08/1926	4600 Pico Blvd.	J.B. Lumber Co.	New construction
05/20/1935	4620 Pico Blvd.	L.A.R.Y. Corp.	Umbrella shed
09/03/1940	4636 Pico Blvd.	W.E. Lumber Co.	Shed #1, Current bldgs – 4
			offices, warehouse, saw,
			plaining mill
12/28/1944	4646 Pico Blvd.	L.A. Railway Corp.	C of O – toilet rooms
1922	4650 Pico Blvd.	The Vineyard	Construct shed for
		Lumber Co.	assembling sectional
			house units
04/21/1958	4650 Pico Blvd.	Cooper Lumber Co.	Saw dust bin



03/03/1967	4650 Pico Blvd.	W.E. Cooper	4 existing storage & retail
		Lumber Co.	sales. Construct new
			lumber storage structure
Illegible	4650 Pico Blvd.	W.E. Cooper	Roof over machinery
		Lumber Co.	
08/19/1941	4700 Pico Blvd.	W.E. Cooper	Add wood on fence. One
		Lumber Co.	office & warehouse
02/14/1961	4700 Pico Blvd.	Metropolitan	Demolish 50' x 200'
		Transit	garage
05/12/1952	3628 Crenshaw Blvd.	Gilfillan Bros. Inc.	New bldg - manufacture of
			electronic products
04/10/1967	3628 Crenshaw Blvd.	I.T.T. Gilfillan	Construct utility bldg., 4
			factory/office bldgs. onsite

Date	Address	Owner and/or	Permit Type and/or
		Tenant	Building Use
01/17/1969	3628 Crenshaw Blvd.	Carter-Wallace Inc.	123' x 438' C of O,
			change use from manf. to
			warehouse & manf. Bldg.
06/20/1974	3628 Crenshaw Blvd.	20 th Century	C of O, 12'9" x 23'
		Plastics, Inc.	machinery room
09/20/1976	3628 Crenshaw Blvd.	20 th Century	Construct shade trellis
		Plastics, Inc.	
10/20/1976	3628 Crenshaw Blvd.	20 th Century	Fence; offices, warehouse,
		Plastics, Inc.	manufacturing
03/12/1980	3628 Crenshaw Blvd.	20 th Century	C of O, 193'6" x 208'
		Plastics, Inc.	warehouse & office
03/30/1988	3628 Crenshaw Blvd.	20 th Century	C of O, 117' x 280'8"
		Plastics, Inc.	addition to warehouse,
			office, & manf. bldg.
09/10/1947	3630 Crenshaw Blvd.	Craig Oil Co.	New bldg super service
			station
05/10/1968	3644 Crenshaw Blvd.	Gulf Oil Corp.	New service station
01/25/1955	3650 Crenshaw Blvd.	Rocket Cleaners	New drop-off bldg. for
C to Ci :			cleaning & sign

C of O: Chain of Occupancy Bldg: Building Manf: Manufacturing



4.4.7 Other Historical Sources.

Additional resources were not researched as a part of this assessment

4.4.8 Summary of Historical Land Use

Based on historical records, the subject property has consisted primarily of streets and a railroad right-of-way at least since the late 1800s. The affected parcels at Venice Boulevard and Crenshaw Boulevard have been used for residential purposes since at least the 1920s. A small portion of the subject property at San Vicente Boulevard and Venice Boulevard appeared to have been occupied by vacant land prior to the construction of San Vicente Boulevard between Pico Boulevard and Venice Boulevard in the 1950s or 1960s. The affected parcels at San Vicente Boulevard and Venice Boulevard appeared to have been occupied by the Pacific Electric Railroad right-of-way until at least the early 1950s, as well as a lumber company from at least 1926 to 1967, and commercial uses until the present. The affected parcels at Crenshaw Boulevard and Exposition Boulevard south to Coliseum Street appeared to have been primarily vacant and possibly used for agricultural purposes from the 1920s to the 1950s, and have been built up with commercial structures from the 1950s through the present, with the following notable businesses: 3628 Crenshaw Boulevard - Gilfillan Electronics Manufacturing from at least 1952 to 1968 and 20th Century Plastics from at least 1974 to 1988; 3630 & 3644 Crenshaw Boulevard - Gas station from at least 1947 to 1978.



5.0 SITE RECONNAISSANCE

5.1 <u>Methodology and Limiting Conditions</u>

On February 12, 14, 26, 27, and March 3, 2008, representatives of Leighton Consulting, Ms. Shannon Siegel and Ms. Meredith Church, a licensed Professional Geologist, conducted a reconnaissance—level assessment of the subject property. The site reconnaissance consisted of the observation and documentation of existing subject property conditions and nature of the neighboring property development within 0.25-miles of the subject property. Photographs of the subject property are presented in Appendix B and their view directions are noted on Figures 4a through 4d, Environmental Concern Location Map.

Leighton Consulting was provided access only to the railroad and street right-of-ways. Access was not provided on any properties located adjacent to the right-of-way and these properties were only inspected from the property boundaries. Fences, vegetation, buildings, etc. limited the observations on many of these properties.

5.2 General Site Setting

The subject property is currently used for transportation purposes, including paved roads and railroad right-of-ways; however, the railroad right-of-way is reportedly inactive at this time. The immediate subject property vicinity (including affected parcels) and the surrounding areas consist of residential, commercial, and industrial properties, as well as transportation corridors (streets and freeways). Exterior observations for the subject property are summarized in the section below.

The Site Reconnaissance Record Log lists hazardous substances, USTs, and other items observed on adjacent properties (Appendix D). In addition, a list of adjacent sites identified during the site reconnaissance that were observed to use hazardous materials, have USTs, monitoring wells, soil borings, or any items or business types such as dry cleaners, auto repair, gas stations, etc. that may represent an environmental concern to the subject property are listed in the Site Reconnaissance Summary - Adjacent Sites of Potential Environmental Concern also included in Appendix D.



5.3 Exterior Observations

5.3.1 <u>Hazardous Substances, Drums, and Other Chemical Containers</u>

No hazardous materials, drums, or other chemical containers were observed directly on the road or railroad; however, hazardous materials observed within 20 feet of the railroad included the following:

Sxn	Address/Location	Hazardous Materials Observed	Photo
C1/ C2	200 Beach Avenue	Numerous 55-gallon drums of machine oil and heat transfer fluid. ASTs for waste cooking oil and used white grease, and sodium hypochlorite. No soil staining observed.	36 & 37
C1/ C2	~ Railroad tracks and La Colina	5-gallon bucket of apparent oil/water. No soil staining observed.	38
C1/ C2	~ Railroad tracks and La Colina	5-gallon bucket of apparent oil/water. No soil staining observed.	39
C1	Railroad tracks south of Manchester Blvd.	55-gallon drum tipped over in soil with 1 qt. oil cans spilled on ground. Some soil staining.	53
C1	Railroad tracks between Manchester Blvd. & Westchester Parkway	Various retail chemical containers such as strippers, paint thinner, and paint. No soil staining observed.	54 & 65
C1	Railroad tracks between Manchester Blvd. & Westchester Parkway	5-gallon buckets of latex paint and paint remover. No soil staining observed; however, standing water from rain beneath buckets.	55
C1	Northwest of Westchester Parkway and Arbor Vitae	2-55 gallon drums and diesel AST. Contents of drums unknown. No concrete staining observed.	58
C1	Hertz Rental Cars, Westchester Parkway & Railroad tracks	55-gallon drums of washing solution and antifreeze. No concrete staining observed.	67

5.3.2 Storage Tanks

Evidence of underground storage tanks (USTs) (such as vent lines, fill or overfill ports) was not observed on the subject property.

5.3.3 Polychlorinated Biphenyls (PCBs)

PCBs were once used as industrial chemicals whose high stability contributed to both their commercial usefulness and their long-term deleterious environmental and health effects. PCBs can be present in coolants or lubricating oils used in



older electrical transformers, hydraulic systems, and other similar equipment. In 1979, the USEPA generally prohibited the domestic use of PCBs in electrical capacitors, electrical transformers, vacuum pumps, hydraulic pumps, and gas turbines.

Pad-mounted transformers were observed at numerous adjacent sites; however, no pad-mounted transformers were observed on the subject property. Two electrical substations were observed adjacent to the subject property: Inglewood substation at Florence Avenue and Ivy Avenue (Photo No. 43), and another substation at the railroad right-of-way and Isis Avenue (Photo No. 50).

Pole-mounted transformers were not common along the subject property; however, there were some observed along the east-west trending railroad tracks between Crenshaw Boulevard and the Interstate 405 overpass (Photo Nos. 42, 62, and 68). No staining was observed around any of the transformers observed. Should fluid spills or releases from electrical transformers occur, associated remediation efforts are typically the responsibility of the transformer owner per Federal Regulation (40 CFR 761.125).

Based on the above information, the potential for PCBs to have impacted the subject property is considered to be low.

5.3.4 Waste Disposal

Dumpsters for solid waste disposal were observed in the street at some locations for trash pickup for the adjacent sites. No permanent waste disposal containers were observed onsite.

5.3.5 Dumping

Evidence of dumping was not observed on the subject property, with the exception of some debris along the railroad line (Photo Nos. 45 and 59). Some of the debris appeared to be partly burned (Photo No. 45).

5.3.6 Pits, Ponds, Lagoons, Septic Systems, Wastewater, Drains, Cisterns, and Sumps

No drains were observed on the subject property with the exception of frequent storm drains along the roads (Photo Nos. 2 and 3).



5.3.7 Pesticide Use

Pesticides were not observed on the subject property.

5.3.8 <u>Staining, Discolored Soils and/or Corrosion</u>

Minor oil staining of the asphalt from parked cars was observed along the subject property roadways and there was minor to moderate cracking of the asphalt observed that appeared to have a low impact potential (Photo Nos. 13, 15, and 17). Minor oil staining was observed on or adjacent to the railroad right-of-way east of Victoria Avenue (Photo No. 41), and a 55-gallon drum was observed to be leaking oil onto the soil approximately 25 to 50 feet east of the railroad tracks between Manchester Boulevard and Westchester Parkway (Photo No. 53). Staining appeared to be minor and surficial in each instance.

5.3.9 Stressed Vegetation

Stressed vegetation was not observed on the subject property.

5.3.10 Unusual Odors

Unusual odors were not detected on the property, with the exception of paint odors that appeared to emanate from adjacent spray paint facilities for auto body work.

5.3.11 Onsite Wells

Oil or gas production, wells were not observed or reported at the subject property. Groundwater monitoring wells were observed along and adjacent to the alignment corridor at the following locations:



Monitoring Wells Onsite or Crossing Site

Address	Facility Name	Photo
	Alright Parking Lot (Former Chevron); 1 monitoring well	
4180 Wilshire	east Lane Crenshaw Blvd., and 2 on west, 20 wells total	
Blvd.	(2 on property to the west)	6,7,17
	Vacant Lot – one monitoring well located at west lane of	
701 Crenshaw	Crenshaw Blvd., part of the former Chevron site listed	
Blvd.	above	16
1009 Crenshaw	Chevron - 1 in west lane, 3 on east lane Crenshaw Blvd.,	
Blvd.	adjacent to Century Sports Club	8
4176 Venice	76 Station - west lane of Crenshaw Blvd. (did not	
Blvd.	observe)	11
3400 Crenshaw	Arco - offsite well appears to cross Crenshaw Blvd. and	
Blvd.	is located northwest at Chevron station	23, 24
	Dirt lot under construction (former Honeywell) – at least	
5600 Arbor Vitae	four wells observed west of railroad tracks. Geotracker	
Street	indicates that wells are also located east of the tracks	57

Borings Locations Onsite

La Brea Blvd.&	West lane of La Brea Ave., - two, near storm drain, ~4",	
Sycamore	possibly utility related	3
	In La Brea Ave., near center/west, fronting Goodwill	
817 La Brea	store – two borings, one ~3" & one ~ 6", possibly utility	
Blvd.	related	5
	East of Crenshaw Boulevard, fronting Legal Aid	
1102 Crenshaw	Foundation office – appears to be former monitoring	
Blvd.	wells and/or borings	9
1235 Crenshaw	West lane of Crenshaw Blvd., fronting residential	
Blvd.	structures - ~12" diameter. Possibly utility related.	12
1111 Crenshaw	West lane of Crenshaw Blvd., fronting UC Education	
Blvd.	Center – labeled as Boring B11	14

Monitoring wells locate onsite are considered to have a High potential to adversely impact the site. The borings located at 1102 and 1111 Crenshaw Boulevard are also considered to have a High potential to adversely impact the subject property; however, the remaining boring locations that appear to likely be utility related and are not located near facilities of concern, are expected to have a Low to Moderate potential to adversely impact the subject property.



5.3.12 Other Observations

Utility plates were observed along Crenshaw Boulevard for sewer, water, and gas. Utility plates were observed along the adjacent sidewalks for traffic signal, lights, and water, as well as water meters and fire hydrants (Photo Nos. 3 and 13).

Numerous patches were observed in the road right-of-ways that appeared to be typical repair or utility work (Photo Nos. 1 and 13).



6.0 INTERVIEWS

Leighton Consulting conducted interviews with persons having knowledge of current or past subject property usage. Interviews were conducted either orally or in the form of a written questionnaire. See Appendix E for a completed Interview Forms.

6.1 <u>Interview with Owner</u>

Leighton Consulting sent an Owner Interview Form to METRO, the owner of the railroad right-of-way. Mr. Matt Fraychineaud, an Environmental and Real Estate Consultant for METRO, returned the form on April 23, 2008. According to Mr. Fraychineaud, the Harbor Subdivision right-of-way has been used as a railroad right-of-way since circa 1900 and METRO purchased the property in approximately 1992. Mr. Fraychineaud was not aware of any environmental concerns associated with the property; however, he sated that Phase I and perhaps Phase II ESAs were conducted for the purchase of the property from BNSF, and that subsurface sampling may have been conducted on portions of the property. Previous reports were not provided to Leighton Consulting for review.

Owner information for the affected parcels was not provided to Leighton Consulting, and interview owner or tenant interviews were not conducted for these properties.

6.2 Interview with Site Property/Manager

See Section 6.1. Leighton Consulting was not provided property manager information for the subject property.

6.3 <u>Interviews with Occupants</u>

See Section 6.1. Leighton Consulting did not interview any occupants associated with the affected parcels.

6.4 Interviews with Local Government Officials

Leighton Consulting did not interview employees with local government agencies to request information regarding historic and current uses of the subject property with the exception of those noted in Section 4.2.



6.5 <u>Interviews with Others</u>

Leighton Consulting did not conduct other interviews for this Phase I ESA.



7.0 FINDINGS

For this study, Leighton Consulting has established classification criteria to assist in identifying the potential impacts of each contaminated or potentially contaminated facility that was identified in the FirstSearchTM environmental database report system, the site reconnaissance, or reviews of other records. Each facility was classified as high, moderate, or low with respect to its type of operation, proximity to the subject property, the anticipated hydrogeologic gradient, field observations, and regulatory information. In general, the classification criteria are:

- <u>High</u> facilities with known or probable soil/groundwater contamination (i.e. Leaking Underground Storage Tanks [LUSTs]), and facilities where remediation is incomplete or undocumented, and the contamination is known or suspected to exist on the subject property.
- Moderate facilities with identified or potential soil contamination (i.e. LUSTs), remediation is in progress, or groundwater contamination that does not appear to be migrating and has not been reported on the subject property. Facilities with a heavy industrial/manufacturing background that typically use or have used significant quantities of hazardous materials may also be classified as Moderate.
- <u>Low</u> facilities that have completed remediation or have historically utilized only small amounts of known contaminants (i.e. small quantity generators or underground storage tanks).

It should be noted that the company names may be former businesses that operated at the associated address.

7.1 Onsite

The following table summarizes the environmental concerns identified onsite, or associated with the affected parcels, that have a classification criterion of Moderate to High. The "ID" column in the table refers to the location identification on Figures 4a to 4d, Environmental Concern Location Maps – letters indicate the offsite facility source of the monitoring well or boring, and numbers refer to the photo number (Appendix B). The "Sxn" column refers to the alignment section within the feature is located. In the "Environmental Concern" column, "monitoring well" indicates that this feature was observed within the subject property right-of-way or that wells cross the subject property. Localized contamination of shallow groundwater may exist in the vicinity of the monitoring wells.



Fig#	ID	Sxn	Facility Name/Address	Environmental Concern	Hazard
4a	D	A1	CIM/Pico	4550 Pico Blvd., LA	Moderate
			Former Lumber Company &	4600-4700 Pico Blvd.,	
			facilities with USTs	LA	
4a	Е	A2	Alright Parking Lot/4180 Wilshire	Monitoring wells	High
			Blvd. to 701 Crenshaw Blvd., LA		
4a	9	A2	Legal Aid Foundation, 1102	Borings	High
			Crenshaw Blvd., LA		
4a	14	A2	UC Education Center, 1111	Borings	High
			Crenshaw Blvd., LA		
4a	F	A2	Chevron Gas Station, 1009	Monitoring wells	High
			Crenshaw Blvd., LA		
4a	I	A1/A2	76 Station, 4176 Venice Blvd., LA	Monitoring wells	High
4a	M	A1/A2	Arco, 3400 Crenshaw Blvd., LA	Monitoring wells	High
4a	P	A1/A2	Former Gulf Oil, 3630 & 3644	Former gas station, USTs	High
			Crenshaw Blvd., LA	formerly located fronting	
				Crenshaw Blvd.	
4a	Q	A1/A2	Cameo Cleaners, 3650 Crenshaw	Dry cleaners, release of	Moderate
			Blvd., LA	PCE and TCE	
4c	41	C1/C2	Railroad tracks and East of	Staining along railroad	High
			Victoria Avenue, LA	tracks	
4c	38,	C1	Directly north of railroad tracks,	Two buckets of oily water	Moderate
	39		near La Colina Road, Inglewood	near railroad right-of-way	
4d	SS	C1	Vacant lot, 5600 Arbor Vitae, LA	Monitoring wells	High
4d	53	C1	West of railroad tracks and south	55-gallon drum tipped	High
			of Manchester Boulevard, LA	over with 1 quart oil cans	
				spilled on ground, some	
4.1	- 1	G1	W	soil staining	3.6.1
4d	54	C1	West of railroad tracks between	Fenced storage area with various retail chemical	Moderate
			Manchester Boulevard and	containers such as	
			Westchester Parkway, LA	strippers, paint thinner,	
				and paint. No soil staining	
				observed.	
4d	61	C1	Adjacent to railroad tracks, west of	Asphalt debris pile	Moderate
			Cedar Avenue, Inglewood		



Fig #	ID	Sxn	Facility Name/Address	Environmental Concern	Hazard
4d	58	C1	BNSF Railroad Right-of-Way, 550 South of Arbor Vitae, Los Angeles	An unknown release of some type appears to have occurred. May have been mitigated.	Moderate

7.2 Offsite

The following offsite facilities have a classification criterion of Moderate and High based on the current site usage, former site usage, observed hazards, and/or known releases to the subsurface. Some of these facilities may have obtained closure for previous releases but are still classified as Moderate based on the close proximity to the subject property and the potential for residual contamination. The concerns identified in Section 7.1 that are on the affected parcels, or that are associated with offsite facilities, are also listed in this table. Localized contamination of shallow groundwater likely exists in the vicinity of the sites ranked as a High hazard, and may exist around some of the sites ranked as a Moderate hazard.

Fig #	ID	Sxn	Facility Name	Address	Hazard
4a	A	A1	Metropolitan Car Wash	900 La Brea Ave., LA	Moderate
4a	В	A1	Harry's Tow Lot (former KCOP	915 La Brea Ave., LA	Moderate
			Production Studio)		
4a	C	A1	Arco Gas Station	5301 Olympic Blvd., LA	Moderate
4a	D	A1	CIM/Pico	4550 Pico Blvd., LA	Moderate
			Former Lumber Company &	4600-4700 Pico Blvd.,	
			facilities with USTs	LA	
4a	Е	A2	Alright Parking Lot, Former	4180 Wilshire Blvd., LA	High
			Chevron		
4a	F	A2	Chevron Gas Station	1009 Crenshaw Blvd., LA	High
4a	G	A2	American Best Auto Repair	4100 Olympic Blvd., LA	Moderate
			Service/Shin Brothers Auto Body		
			and Paint		
4a	Н	A1/A2	Arco Gas Station	4169 Venice Blvd., LA	Moderate
4a	I	A1/A2	76 Gas Station	4176 Venice Blvd., LA	High
4a	J	A1/A2	Mobil Station	1925 Crenshaw Blvd., LA	Moderate
4a	K	A1/A2	Chevron Gas Station	3063 Crenshaw Blvd., LA	Moderate
4a	L	A1/A2	System Cleaners	3631 Crenshaw Blvd., LA	Moderate



Fig #	ID	Sxn	Facility Name	Address	Hazard
4a	M	A1/A2	Arco Gas Station	3400 Crenshaw Blvd., LA	High
4a	N	A1/A2	West Angeles Cathedral (formerly	3628 Crenshaw Blvd., LA	Moderate
			20 th Century Plastics)		
4a	О	A1/A2	Shell Gas Station	3645 Crenshaw Blvd., LA	Moderate
4a	P	A1/A2	Former Gulf Oil	3630 & 3644 Crenshaw	High
				Blvd., LA	
4a	Q	A1/A2	Cameo Cleaners	3650 Crenshaw Blvd., LA	Moderate
4a/4b	R	A1/A2	Lula Washington Dance Theatre	3773 Crenshaw Blvd., LA	High
		& B			
4b	S	В	Shell Gas Station	6805 Crenshaw Blvd., LA	Moderate
4b	T	В	Former Crenshaw Collision Center	6530 Crenshaw Blvd., LA	Moderate
4c	U	C1/C2	Salvage yard	6745 Victoria Ave., LA	Moderate
4c	V	C1/C2	Enderlo Vault Co.	827 Redondo Blvd., Ing	Moderate
4c	W	C1/C2	So Cal Gas Company, Inglewood	700 Warren Lane, Ing	Moderate
			Manufactured Gas Plant		
4c	X	C1/C2	Manufacturing facilities, including	200-330 Beach Ave., Ing	Moderate
			plastic and metal manufacturing,		
			machine shop, and plating works		
4c	Y	C1/C2	Fujita Corporation	230 La Brea Ave., Ing	Moderate
4d	Z	C1	So Cal Edison Electrical	201 Florence Ave., Ing	Moderate
			Substation		
4d	AA	C1	Former Smoot Holman	311 Florence Ave., Ing	Moderate
4d	BB	C1	Former Kroehler Manufacturing	301 Florence Ave., Ing	Moderate
4d	CC	C1	Blue Diamond Materials (441),	401-505 Railroad Place,	Moderate
			Cemex (505), formerly - Foundry	Inglewood	
			(401); Salvage Yard (431); Metal		
			Salvage and Melting (441)		
4d	DD	C1	Former Standard Oil Co. of	401-417 Florence Ave.,	Moderate
			California and Inglewood Foundry	Inglewood	
4d	EE	C1	Mobil Gas Station, formerly	8307 La Cienega Blvd.,	High
			Golden Star Laundry	Inglewood	
4d	FF	C1	LAX Equipment	830 Florence Ave., Ing	Moderate
4d	GG	C1	Charles Caine Co.	8325 Hindry Avenue, LA	Moderate
4d	НН	C1	Former Circuit Board	8331-8341 Hindry Ave.,	Moderate
			Manufacturing and Machine Shop	LA	
4d	II	C1	Zephyr Manufacturing	201 Hindry Ave., Ing	Moderate



Fig #	ID	Sxn	Facility Name	Address	Hazard
4d	JJ	C1	Isis Electrical Substation	8331 Isis Avenue, LA	Moderate
4d	KK	C1	Shell Gas Station	1135 Manchester Blvd.,	
				LA	
4d	LL	C1	Budget Truck Rental	5560 Manchester Blvd.,	High
				LA	
4d	MM	C1	Former metal spinning (1315),	1315-1401 Aviation	Moderate
			machine shop (1319), dry cleaning	Blvd., Inglewood	
			plant (1325), and the American		
			Bitumuls & Asphalt Company		
			(1401)		
4d	NN	C1	Unocal/76 Gas Station	8600 Aviation Blvd., Ing	Moderate
4d	OO	C1	Rho-Chem	425 Isis Avenue, Ing	Moderate
4d	PP	C1	Industrial facilities: electronic	8700-9030 Bellanca Ave.,	Moderate
			manufacturing (8700); plastic	LA	
			manufacturing (8900), auto parts	Manchester Boulevard to	
			manufacturing (8924), and aircraft	Arbor Vitae Street, west	
			tool manufacturing and polishing	of railroad tracks.	
			and plating (9030)		
4d	QQ	C1	Princeland Properties	1237 Arbor Vitae, Ing	Moderate
4d	RR	C1	Formerly Freight	9007 – 9121 Aviation	Moderate
			Forwarders/Union Bank/Estate of	Blvd., Inglewood	
			Joseph Collin/Bodycote		
			Hinderliter/Inglewood		
			Suppliers/Sunsetting Auto Body		
4d	SS	C1	King Delivery (currently vacant	5600 Arbor Vitae, LA	High
			lot)		
4d	TT	C1	Numerous manufacturing facilities	9630-9998 Bellanca Ave.,	Moderate
			including aircraft parts (9632)	LA	
4d	UU	C1	North American Aviation, Inc.,	5601 Imperial Highway	Moderate
			Airplane factory		

7.3 <u>Data Gaps</u>

ASTM E 1527-05 requires review of standard historical sources (SHS) at approximate fiveyear intervals from at least 1940 to the present, or the earliest development of the site. The availability of extensive historical information varies significantly between locations and it is common to have gaps in the data for one or more of the periods where historical property



uses are unknown or uncertain. There is also a potential for unidentified uses to have occurred between data points, or prior to the earliest acquired data.

The earliest data acquired for the subject property indicating past property usage was from 1892. There were intermittent gaps throughout the data collected, where historical property uses are unknown or uncertain.

Leighton Consulting was provided access only to the railroad and street right-of-ways. Access was not provided on any properties located adjacent to the right-of-way and these properties were only inspected from the property boundaries. Fences, vegetation, buildings, etc. limited the observations on many of these properties. Due to the large size of the project, the regulatory database was reviewed to limited radii of 0.25 miles. The scope of work for this Phase I ESA did not include environmental lien searches, city directory reviews, or interviews of owners or tenants of the affected or adjacent parcels.

Based on the use of the subject property for transportation corridor purposes, the data gaps are considered unlikely to alter the conclusions or recommendations of this report.



8.0 OPINION

8.1 Onsite

It is Leighton Consulting's opinion that this assessment has identified areas of potential environmental concern that warrant further investigation prior to construction activities and that this information, as well as any additional subsurface assessment, should be included in a soil mitigation plan prior to construction.

Pesticides and lead arsenates were historically used by railroad companies as a means of week control along right-of-ways and it is Leighton Consulting's opinion that pesticides and lead arsenates may be present in surface soils in the vicinity of the right-of-ways. In addition, railroad ties are often treated with creosote which may be present in the surface soils beneath.

8.2 Offsite

It is Leighton Consulting's opinion that this assessment has identified areas of potential environmental concern that warrant further investigation prior to construction activities and that this information, as well as any additional subsurface assessment, should be included in a soil mitigation plan prior to construction.

Portions of the adjacent properties were formerly used for agricultural purposes, primarily east and west of Crenshaw Boulevard from Exposition Boulevard to Vernon Avenue and east and west of the BNSF railroad right-of-way. It is Leighton Consulting's opinion that pesticides may be present in the near-surface soils in these areas.



9.0 CONCLUSIONS

Leighton Consulting has performed a Phase I ESA in accordance with the scope and limitations of ASTM Practice E 1527-05 of the subject property including the proposed alignments for the Crenshaw-Prairie Transit Corridor Project located in the cities of Los Angeles and Inglewood. Exceptions to, or deletions from this practice are described in Section 1.5 of this report. This assessment has revealed no evidence of RECs in connection with the property with the exception of the following:

- Former agricultural usage adjacent to portions of the subject property that may have used pesticides.
- Usage of portions of the subject property for railroad purposes. Pesticides and lead arsenates
 were historically used by railroad companies as means of weed control along right-of-ways.
 In addition, railroad ties are often treated with creosote which may be present in the nearsurface soils and undocumented spills from railroad cars may have occurred in the past.
- Hazardous materials, monitoring wells, and borings were observed on the subject property. See Section 7.0 for a full list of items observed and their locations.
- Businesses that operated on the affected parcels or adjacent parcels that represent a moderate
 to high potential for environmental concern. Localized contamination of groundwater and/or
 soil was associated with many of these sites. See Section 7.0 for a full list of the identified
 sites.

Based upon the findings of this Phase I ESA, Leighton Consulting recommends completing the following work discussed below:

• Phase II ESA - Conduct a limited Phase II ESA prior to construction in areas where construction workers may be exposed to impacted soil. A base line soil sampling protocol should be established with special attention to those areas of potential environmental concern identified in this report. The soil should be assessed for constituents likely to be present in the subsurface including, but not limited to, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs), pesticides, lead arsenates, and Title 22 metals. The depth of the sampling should be based on the depth of grading or cut and fill activities. In addition, in areas where groundwater will be encountered, samples should also be analyzed for suspected contaminants prior to dewatering. This will ensure that National Pollutant Discharge Elimination System (NPDES) discharge requirements are satisfied.



- Soil Mitigation Plan A soil mitigation plan should be prepared after final construction plans are prepared showing the lateral and vertical extent of soil excavation during construction. The soil mitigation plan should establish soil reuse criteria, establish a sampling plan for stockpiled materials, describe the disposition of materials that do not satisfy the reuse criteria, and specify guidelines for imported materials. The soil mitigation plan should include a provision that during grading or excavation activities, soil should be screened for contamination by visual observations and field screening for volatile organic compounds with a photo ionization detector (PID). Soil samples that are suspected of contamination based on field observations and PID readings shall be analyzed for suspected chemicals by a California certified laboratory. If contaminated soil is found, it shall be removed, transported to an approved disposal location, and remediated or disposed according to state and federal laws.
- <u>Hazardous Material and Debris Removal</u> All hazardous materials, drums, trash, and debris shall be removed and disposed of in accordance with regulatory guidelines.
- <u>Health and Safety Plan</u> A health and safety plan should be developed for persons with potential exposure to the constituents of concern identified in the limited Phase II ESA.
- Construction Observations Historical and present site usage along the many areas of the proposed alignment included businesses that stored hazardous materials and/or waste and used USTs, from at least the 1920s to the present. It is possible that areas with soil and/or groundwater impacts may be present that were not identified in this report, or were considered a low potential to adversely impact the subject property. In general, observations should be made during any future development activities for features of concern or areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, soil staining or odorous soils. Further investigation and analysis may be necessary, should such materials be encountered.



10.0 DEVIATIONS

Leighton Consulting did not deviate from or alter the scope of work, as defined in Section 1.3 of this report.



11.0 ADDITIONAL SERVICES

Leighton Consulting did not perform work outside the scope of work as defined in Section 1.3 of this report.



12.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

12.1 Corporate

Leighton Consulting, Inc. is a California corporation, providing geotechnical and environmental consulting services throughout California. We are solely a consulting firm without interests in real property other than our eight offices in Southern California. We provide professional environmental consulting services including application of science and engineering to environmental compliance, hazardous materials/waste assessment and cleanup, and management of hazardous, solid and industrial waste. Phase I Environmental Site Assessments are a part of this practice area and have been conducted by us.

12.2 Individual

The qualifications of the Project Manager and the other Leighton Consulting environmental professionals involved in this Phase I ESA meet the Leighton corporate requirements for performing Phase I ESAs as specified by ASTM 1527-05. In addition, Ms. Meredith Church is a Registered Professional Geologist.

12.3 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined by §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Meredill Church

Project Geologist





Preliminary Hazardous Substance Identification Technical Memo (Subtask 6.2.4)

Crenshaw/LAX Transit Corridor Project Advanced Conceptual Engineering Contract E0117

Prepared for: LA County Metropolitan Transportation Authority One Gateway Plaza Los Angeles, CA 90012-2952

Prepared by: Hatch Mott MacDonald 6151 West Century Boulevard, Suite 800 Los Angeles, CA 90045



October 2010



This document has been prepared by the Hatch Mott MacDonald Crenshaw/LAX Transit Corridor Team including Hatch Mott MacDonald and the following subconsultants:

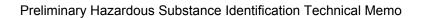
- Anil Verma Associates, Inc.
- Base Architecture
- DCA Civil Engineering Group
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- Jacobs Engineering Group, Inc.
- J. L. Patterson & Associates
- McKissack & McKissack
- POM, Inc.
- The Solis Group
- Ultrasystems
- Wagner Engineering & Survey
- Wilson Ihrig & Associates

ISSUE AND REVISION RECORD

Rev	Date	Originator	Checker	Approver	Description
0	6/21/10	M. Hoshiyama	A. Lee, G. Ueblacker, R. Quraishi	H. Law, F. Nourbakhsh	Draft to Metro
1	10/04/10	M. Hoshiyama	A. Lee	H. Law, F. Nourbakhsh	ACE final

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1 EXECUTIVE SUMMARY

The Los Angeles County Metropolitan Transportation Authority (Metro) is planning transit improvements in the Crenshaw/LAX Transit Corridor to accommodate demand for travel in north-south and east-west directions. These improvements will provide more direct service between downtown Los Angeles and Los Angeles International Airport (LAX), and important connections between the Crenshaw corridor and downtown Los Angeles, the Westside, and the South Bay.

As part of the advanced conceptual engineering design, Metro has requested that Hatch Mott MacDonald prepare a preliminary hazardous substance identification technical memo. As a subconsultant to Hatch Mott MacDonald, Earth Mechanics, Inc. (EMI) assists the design team in geotechnical engineering and environmental sampling in this advanced conceptual engineering design phase.

Based on the knowledge of the geotechnical conditions along the project alignment and the understanding of the project requirements, it was originally planned to conduct a field exploration program consisting of drilling thirty three (33) borings along the proposed structure alignments, including one boring at each elevated station, to a depth of about 100 feet and eleven (11) borings to a depth of 30 feet for at-grade tracks and stations. Four (4) of the borings to a depth of 30 feet were originally planned at the potential maintenance facility sites. One of the potential sites (Site 11) was no longer considered by the project team, which resulted in the elimination of two (2) 30foot borings. Four (4) downhole P-S loggings to measure shear wave velocities of the upper 100 feet of soil, four (4) Packer testing to estimate groundwater extraction rates, and ten (10) pressuremeter tests to determine stress-strain relationship of subsurface soils were performed during our field exploration. Where groundwater was encountered, up to four (4) borings were converted to monitoring wells. In addition, thirteen (13) Cone Penetration Tests (CPTs) were to be performed to obtain continuous profile of subsurface soils. Besides geotechnical sampling, environmental sampling of soil and water were performed within eighteen (18) of the 100 feet deep borings, three (3) of the 30 feet deep borings, two (2) of the 50 feet deep borings at each maintenance facility site. This technical memo presents the results of the environmental analytical testing conducted to date as part of the Crenshaw/LAX Transit Corridor Project.



4 HAZARDOUS MATERIALS

4.1 General

The proposed Crenshaw/LAX Corridor utilizes both local arterial streets and railroad right-of-ways, and its alignment is entirely within urbanized areas. With single- and multi-family residential properties at its outskirt, land uses within the study areas include: primarily commercial along Crenshaw Blvd., light industrial and commercial along the BNSF Harbor Subdivision railroad track, LAX and its supporting facilities along Aviation Blvd. Past agricultural usage are known for lands around Crenshaw Blvd. between Exposition Blvd. and Vernon Ave., as well as lands around railroad tracks between Regent St. and Imperial Highway prior to their redevelopment. In addition, the alignment traverses the northern margin of the Potrero oilfield approximately between La Brea Ave. and Manchester Blvd., with the Inglewood oilfield located to its immediate northwest. For a transit corridor crossing densely populated urbanized areas and production oilfields, the potential of encountering hazardous wastes as well as petroleum-contaminated soils and groundwater during tunnel excavations and structural foundation installations is always present.

A Phase-I Environmental Site Assessment was performed by Leighton Consulting, Inc. in 2008 to identify environmental conditions of the proposed alignment. Results of the assessment were included in the Environmental Impact Statement/Environmental Impact Report in 2009. The assessment ranked potentially contaminated parcels both on- and off-site along the corridor alignment with a three-grade (high, moderate, and low) classification system. Table 4-1 summarized the environmental issues concerning the affected on-site parcels.



Table 4-1 - On-Site Identified Areas of Concerns and Potential Hazardous Materials

Facility Name/ Location	Observed Concerns	Hazard Level
Crenshaw Blvd. between Exposition Blvd. and Vernon St.	Former agricultural usage; possible pesticides.	High
Former Gulf Oil at 3640 & 3644 Crenshaw Blvd.	Former gas station; UST's formerly fronting Crenshaw Blvd.	High
Camao Cleaner at 3650 Crenshaw Blvd.	Dry cleaner; release of perchloroethylene and trichloroethylene to subsurface	Moderate
Railroad tracks and east of Victoria Ave.	Staining along railroad tracks	High
Harbor Subdivision railroad	Railroad usage; possible lead arsenates and/or pesticides for weed control, likely creosote for railroad ties.	High
Directly north of railroad tracks near La Colina	Two buckets of oily water near railroad right-of-way	Moderate
Vacant lot at 5600 Arbor Vitae	Monitoring wells to east and west of railroad tracks	High
West of railroad tracks and south of Manchester Blvd.	55-gallon drum tipped over with 1- quart spilled oil cans on the ground, some soil staining	High
West of railroad tracks between Manchester Blvd. and Westchester Parkway	Fenced storage area with various retail chemical containers such as strippers, paint thinner and paint, no soil staining observed	Moderate
Adjacent to railroad tracks west of Cedar Ave.	Asphalt debris pile	Moderate
East and west of Harbor Subdivision railroad tracks between Regent St. and Imperial Highway	Former agricultural usage; possible pesticides.	High

4.2 Naturally Occurring Contamination

4.2.1 Oil Fields

According to the California Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR), the proposed transit corridor is within the vicinity of numerous oil fields, including Las Cienegas Oil Field to the north, El Segundo Oil Field to the South, and Inglewood Oil Field to the northwest (see Figure 4-1). The Florence Avenue/Harbor Subdivision segment of the transit corridor traverses through the existing Potrero Oil Field (Figure 4-2).

Common problems associated with oil field properties include methane and hydrogen sulfide soil gas, oil seepage, contaminated soils, leaking wells, and wells not plugged and abandoned to current standards.



Based on review of the Oil Field Map and the DOGGR database, there are numerous plugged and abandoned oil wells that exist proximal to the project alignment. EMI performed environmental soil and groundwater testing for Total Petroleum Hydrocarbons (TPH) throughout the project alignment. The results are discussed in section 6.

4.2.2 Methane

Existing oil fields may contain naturally occurring methane. The City of Los Angeles has delineated Methane and Methane Buffer Zones that require soil gas evaluations and appropriate mitigation if necessary (Figure 4-3). The proposed corridor alignment traverses through an identified Methane Buffer Zone. The accumulation of methane gas in an enclosed area can create a highly flammable condition. In addition, the breathing of methane in high concentrations can lead to asphyxiation and the burning of methane produces toxic gases (Eltschaleger and others, 2001). EMI tested groundwater samples for dissolved methane as part of the environmental screening for the site. Results are provided in section 6.2.

4.3 Artificial (Man-Made) Contamination

The project corridor is located within the Los Angeles Basin and traverses through heavily urbanized areas of Los Angeles. As a result, man-made hazardous materials are likely to exist throughout the areas in and around the project alignment. Hazardous materials associated with artificial contamination include petroleum hydrocarbons, volatile organic compounds, pesticides, and metals. These contaminants are usually associated with industrial and/or commercial land uses. As an example, soil and groundwater contamination is often found at gas stations, dry cleaners, and manufacturing facilities. Residential land uses can also lead to contamination through activities often associated with lead-based paints, asbestos, and pesticides. Contamination is most often derived from gasoline and solvents. Metals like lead, mercury, arsenic, and chromium are also common.

The results of the environmental field and laboratory soil and groundwater testing for man-made contaminants are provided in section 6.



5 ENVIRONMENTAL SCREENING

5.1 Environmental Soil and Water Sampling

Environmental sampling of twenty three (23) exploratory geotechnical soil borings (Borings A-10-003, A-10-007, A-10-009, A-10-010, A-10-011, A-10-014, A-10-016, A-10-019, A-10-021, A-10-025, A-10-029, A-10-031, A-10-033, A-10-034, A-10-036, A-10-041, A-10-044, A-10-045, A-10-048, A-10-050, A-10-051, A-10-054, and A-10-055) was performed along transit corridor. Locations of these borings are shown on Figure 5-1. Selected soil and groundwater samples collected from each boring were scheduled for chemical analyses. The environmental evaluation was not intended to delineate and fully assess the extent of contamination beyond the boundaries of the subject area, but to characterize the soils within the subject area only.

A qualified EMI environmental scientist conducted the environmental soil and groundwater sampling. A portion of soil from each sample collected was placed into a sterilized glass container provided by the environmental testing company. Sample labels with appropriate information were affixed onto the sides of the jars for identification purposes. Samples were stored in an ice-filled chest until delivery to the analytical laboratory at the end of the field day.

Water samples were obtained from the borings listed above, where groundwater was found. The water samples were collected using a new sterile plastic bailer. Once the samples were collected, they were placed in designated and sterilized glass containers, depending on the type of testing to be performed. These glass containers were stored in an ice-filled chest until delivery to the analytical laboratory at the end of the same day. Additional water samples were taken during well monitoring and new water samples were tested from the existing wells (A-10-036 and A-10-048). Test results are in Appendix C.

Each soil sample was screened in the field for volatile organic compound vapors using a portable Photoionization Detector (PID). The PID was calibrated to isobutylene according to the manufacturer's instructions. Field screening was performed to detect the presence of volatile organic compounds in soil samples and as a health and safety-monitoring tool. Headspace measurements of each collected soil sample were also conducted during sampling activities, utilizing the PID. These tests were conducted by placing a soil-sample in a sealed bag, breaking up the soil, and then letting it sit for approximately 15 minutes. A reading was then taken by placing the PID tip into the sealed bag. Wells were also sniffed for VOC release after opening the well cover.

Drillers were instructed to notify the onsite engineer/geologist of any potential odors emanating from soil cuttings. Such odors were not encountered during drilling. The onsite geologist/engineer also reviewed each soil sample for possible staining and/or odor.



5.2 Environmental Laboratory (Soil and Water) Testing

Soil and groundwater samples obtained from the borings drilled along the project alignment were transported under standard chain-of-custody to Test America Laboratories, Inc. in Irvine, California. Test America Laboratories, Inc. is accredited by the California State Department of Health Services under the Environmental Laboratory Accreditation Program for the analytical methods used in testing the soil samples (Accreditation Nos. 2706 and 1108, respectively).

Selected soil samples from each boring were analyzed for the following potential contaminants:

- Petroleum hydrocarbons using EPA Methods 8015 (carbon chain) and 418.1
- Volatile organic compounds using EPA Method 8260B;
- Title 22 metals using EPA Method 6010B; and
- Pesticides using EPA Method 8270.

Each collected groundwater sample was analyzed for the following potential contaminants:

- Total Petroleum Hydrocarbons quantified against a gasoline standard (TPHg) by modified EPA Method 8015;
- Dissolved Methane by EPA Method 3810;
- Polynuclear Aromatic Hydrocarbons (PNAs) by EPA Method 8270C; and
- pH by EPA Method 9040.

The laboratory testing was performed using appropriate QA/QC procedures. A copy of the laboratory report for the soil and groundwater sample analyses is provided at the end of Appendix C.



6 PRELIMINARY FINDINGS AND CONCLUSIONS

6.1 Soil Contamination

6.1.1 Field Screening Observations

Field screening of the soil samples collected during the current investigation included: (1) screening for organic vapor emissions using a PID; (2) visual observation of the soil samples for integrity, discoloration and staining; and (3) noting the presence of any unusual odors. The PID readings were measured in volumetric parts per million (ppm) and are shown on the subsurface cross section in Appendix B.

The results of the field screening generally provided no visual indication of significant chemical contamination within the soil samples collected from the borings. With the exception of Boring R-10-002, A-10-009, A-10-010, and R-10-053, the recorded PID readings were non-detectable or relatively low. Boring R-10-002 yielded VOC levels ranging from 11 to 214 ppm with high VOC levels at depths of 20', 50', 60', and 80'. Boring A-10-009 VOC levels that ranged from 54.1 to 82.7 ppm at depths of 5', 25', and 55'. High PID readings in Boring A-10-010 ranged from 20.7 to 21.8 ppm depths of 20' and 60'. Boring R-10-053 yielded a PID sample reading of 45.5 ppm at a depth of 10 feet. PID readings are shown on the Subsurface Cross Section in Appendix B.

6.1.2 Soil Analysis Summary and Conclusions

The laboratory analytical reports and chain of custody records are provided in Appendix C. The following conclusions regarding soil contamination are based upon the information obtained during the field investigation and from laboratory analyses.

<u>Petroleum Hydrocarbons</u>. Visual evidence of soils impacted with petroleum hydrocarbon was not encountered during soil sampling. Twenty three of the 65 soil samples analyzed for the Crenshaw Boulevard segment were reported with very low petroleum hydrocarbon concentrations. The concentrations reported (5.2 to 73 mg/kg) are significantly lower than agency action limits (generally between 100 and 1,000 mg/kg). The soil samples reported with detectable petroleum hydrocarbons were collected between 0 and 50 feet below ground surface. The source of these hydrocarbons is unknown, but suspected of being either related to the overlying asphalt, decomposing organics or minor motor oil releases, as indicated by the higher carbon range detected.

Based on the petroleum hydrocarbon data collected, relatively low petroleum hydrocarbon concentrations should be anticipated locally in the near surface soils along the Crenshaw Boulevard segment. Soils impacted with significant petroleum hydrocarbons quantities are not, however, anticipated. Test results for Petroleum Hydrocarbons are shown in Table 6-1.



Table 6-1 – Petroleum Hydrocarbon Analyses

Sample ID (Depth)	GRO (C4–C12) (mg/kg)	DRO (C13–C23) (mg/kg)	ORO (C24-C44) (mg/kg)	EFH (C13-C44) (mg/kg)
Detection Limits	0.38-0.40	5	5	5
A-10-003 (0-10')	-	ND	36	40
A-10-003 (10')	-	ND	ND	ND
A-10-003 (20')	-	ND	5.2	7.4
A-10-003 (30')	-	18	27	45
A-10-003 (40')	-	ND	ND	ND
A-10-007 (0-5')	-	7.9	65	73
A-10-007 (10')	-	6.9	9.3	16
A-10-007 (20')	-	ND	ND	ND
A-10-007 (30')	-	ND	ND	7.8
A-10-007 (40')	-	ND	ND	ND
A-10-009 (0-5')	-	7.7	20	28
A-10-009 (10')	-	ND	ND	ND
A-10-009 (20')	-	ND	ND	7.6
A-10-009 (30')	-	24	14	37
A-10-009 (40')	-	9.3	8.6	18
A-10-010 (0-5')	ND	ND	ND	ND
A-10-011 (15')	ND	ND	ND	5.9
A-10-011 (20')	ND	19	11	31
A-10-011 (25')	ND	ND	ND	ND
A-10-014 (15')	ND	ND	ND	ND
A-10-014 (25')	ND	ND	ND	ND
A-10-014 (50')	ND	ND	22	25
A-10-016 (10')	ND	ND	ND	ND
A-10-016 (20')	ND	ND	ND	ND
A-10-016 (30')	ND	ND	ND	ND
A-10-019 (10')	ND	ND	ND	ND
A-10-019 (20')	ND	ND	ND	ND
A-10-019 (30')	ND	ND	ND	ND
A-10-021 (5')	ND	ND	ND	7.0



Sample ID (Depth)	GRO (C4–C12) (mg/kg)	DRO (C13-C23) (mg/kg)	ORO (C24-C44) (mg/kg)	EFH (C13-C44) (mg/kg)	
A-10-021 (25')	ND	ND	ND	6.0	
A-10-021 (35')	ND	ND	ND	ND	
A-10-021 (51')	ND	ND	ND	ND	
A-10-025 (5')	ND	ND	ND	ND	
A-10-025 (25')	ND	ND	ND	ND	
A-10-025 (30')	ND	ND	ND	ND	
A-10-025 (45')	ND	ND	ND	ND	
A-10-029 (5')	ND	ND	ND	5.6	
A-10-029 (10')	ND	ND	ND	ND	
A-10-029 (20')	ND	ND	ND	ND	
A-10-031 (10')	ND	ND	ND	ND	
A-10-031 (20')	ND	5.7	ND	9.9	
A-10-031 (30')	ND	ND	ND	ND	
A-10-031 (40')	ND	ND	ND	6.1	
A-10-033 (10')	ND	ND	ND	ND	
A-10-033 (20')	ND	ND	ND	ND	
A-10-033 (30')	ND	ND	ND	ND	
A-10-033 (40')	ND	ND	ND	ND	
A-10-033 (50')	ND	ND	ND	ND	
A-10-034 (3'-5')	-	ND	15	16	
A-10-034 (20')	-	18	26	44	
A-10-034 (30')	-	ND	ND	ND	
A-10-034 (40')	-	ND	ND	ND	
A-10-034 (50')	-	ND	ND	ND	
A-10-041 (5')	ND	ND	ND	ND	
A-10-041 (15')	ND	ND	ND	ND	
A-10-041 (21')	ND	ND	ND	ND	
A-10-045 (10')	ND	ND	ND	ND	
A-10-045 (20')	ND	ND	ND	ND	
A-10-045 (40')	ND	ND	ND	ND	
A-10-045 (50')	ND	ND	ND	ND	
A-10-051 (15')	-	ND	ND	7.5	
A-10-051(25')	-	ND	ND	ND	



Sample ID (Depth)	GRO (C4–C12) (mg/kg)	DRO (C13-C23) (mg/kg)	ORO (C24–C44) (mg/kg)	EFH (C13-C44) (mg/kg)
A-10-051 (40')	-	12	11	22
A-10-054 (0-5')		ND	15	19
A-10-055 (0-5')		5.2	10	16

Notes:

Analyzed using EPA Test Method 8015B.

GRO = Gasoline Range Organics, DRO = Diesel Range Organics, ORO = Oil Range Organics, EFH = Extractable Hydrocarbons

mg/kg Milligrams per kilogram; equivalent to parts per million.

ND Not detected at or above the laboratory detection limit cited.

--- Not analyzed.

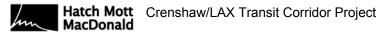
<u>Volatile Organic Compounds</u>. VOC levels for all 65 samples tested as part of this phase of testing were below detection limits except for one sample in Boring A-10-031 at 10 feet below grade. This sample was reported with a relatively low concentration of tetra-chloroethene. The reported concentration is considered well below environmental screening levels (RWQCB). Test results for VOC levels are shown in Table 6-2.

Table 6-2 - Volatile Organic Compound Analyses

Sample ID (Depth)	Benzene (µg/kg)	Ethyl- benzene (μg/kg)	Naphthalene (µg/kg)	Toluene (μg/kg)	1,2,4- TMB (μg/kg)	1,3,5- TMB (μg/kg)	Xylenes (μg/kg)	Tetra- chloroethene (µg/kg)
Detection Limits	2.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0
A-10-003 (0-10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-003 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-003 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-003 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-003 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-007 (0-5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-007 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-007 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-007 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-007 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-009 (0-5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-009 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-009 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-009 (30')	ND	ND	ND	ND	ND	ND	ND	ND



Sample ID (Depth)	Benzene (µg/kg)	Ethyl- benzene (µg/kg)	Naphthalene (μg/kg)	Toluene (µg/kg)	1,2,4- TMB (μg/kg)	1,3,5- TMB (μg/kg)	Xylenes (μg/kg)	Tetra- chloroethene (µg/kg)
A-10-009 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-010 (0-5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-011 (15')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-011 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-011 (25')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-014 (15')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-014 (25')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-014 (50')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-016 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-016 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-016 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-019 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-019 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-019 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-021 (5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-021 (25')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-021 (35')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-021 (51')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-025 (5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-025 (25')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-025 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-025 (45')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-029 (5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-029 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-029 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-031 (10')	ND	ND	ND	ND	ND	ND	ND	2.0
A-10-031 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-031 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-031 (40')	ND	ND	ND	ND	ND	ND	ND	ND





Sample ID (Depth)	Benzene (µg/kg)	Ethyl- benzene (µg/kg)	Naphthalene (µg/kg)	Toluene (μg/kg)	1,2,4- ΤΜΒ (μg/kg)	1,3,5- TMB (μg/kg)	Xylenes (μg/kg)	Tetra- chloroethene (μg/kg)
A-10-033 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-033 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-033 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-033 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-033 (50')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-034 (3'-5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-034 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-034 (30')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-034 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-034 (50')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-041 (5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-041 (15')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-041 (21')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-045 (10')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-045 (20')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-045 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-045 (50')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-051 (15')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-051 (25')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-051 (40')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-054 (0-5')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-055 (0-5')	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Analyzed using EPA Test Method 8260B.

TMB Trimethylbenzene

μg/kg Micrograms per kilogram; equivalent to parts per billion.

ND Not detected at or above the laboratory detection limit cited.

Metals. All 65 soil samples collected during this investigation were analyzed for toxic metals (Title 22 metals). Six to thirteen metals were detected in each collected soil sample. Most of the reported metal concentrations were within anticipated background levels for Southern California. None of the reported results yielded contamination levels exceeding the referenced Total Threshold Limit Concentrations (TTLC). One sample at A-10-031 at 10 feet of depth yielded an elevated arsenic level (28 mg/kg) well above the Western U.S. Mean. As a guideline, the state



regulations stipulate that the STLC test shall be performed if the analytical result for TTLC shows a result greater than 10 times the STLC limit. Based on this guideline, the elevated arsenic level is still considered non-hazardous as it is still below 10 times the STLC limit of 50 mg/kg. The source of these metals is unknown. Test results for Metals levels are shown in Table 6-3.



Table 6-3 – Metal Analyses

Sample ID	METALS													
(Depth)	As	Ва	Ве	Cd	Cr	Со	Cu	Pb	Hg	Мо	Ni	Se	V	Zn
Detection Limits	2.0	0.99	0.49	0.49	0.99	0.99	2.0	2.0	0.020	2.0	2.0	2.0	0.99	4.9
TTLC	500	10,00	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	2,400	5,000
STLC (mg/L)	5	100	0.75	1	560	80	25	5	0.2	350	20	1	24	250
Western*** U.S. Mean	6.1	560	0.6	1	38	8	21	18	0.055	3	16	0.25	66	51
A-10-003 (0-10')	9.1	76	ND	0.67	14	5.0	14	21	0.023	ND	7.8	ND	28	45
A-10-003 (10')	3.5	120	0.54	0.98	24	9.8	50	4.5	0.032	ND	13	ND	54	69
A-10-003 (20')	2.5	46	ND	ND	14	3.4	8	ND	0.037	ND	7.2	ND	19	19
A-10-003 (30')	ND	25	ND	ND	9.1	2.3	9	ND	ND	ND	6.5	ND	13	13
A-10-003 (40')	5.5	160	0.61	1.4	28	12	50	4.9	0.055	ND	24	ND	64	80
A-10-007 (0-5')	9.6	94	ND	0.83	16	5.6	25	27	0.038	ND	9.5	ND	33	64
A-10-007 (10')	3.2	120	0.57	0.93	20	9.0	36	3.9	0.044	ND	13	ND	48	60
A-10-007 (20')	4.7	190	ND	1.6	26	13	39	8.0	0.082	ND	25	ND	61	75
A-10-007 (30')	4.1	190	0.72	1.3	27	13	40	6.1	0.053	ND	17	ND	63	83
A-10-007 (40')	3.4	20	ND	ND	11	1.8	21	ND	ND	ND	6.0	ND	19	17
A-10-009 (0-5')	2.4	87	ND	0.60	14	5.6	10	5.2	0.048	ND	8.9	ND	28	32
A-10-009 (10')	3.1	120	ND	0.77	17	8.0	17	4.4	0.059	ND	12	ND	41	51
A-10-009 (20')	2.3	100	ND	0.72	14	6.9	22	3.4	0.024	ND	9.6	ND	35	50
A-10-009 (30')	2.1	140	0.51	0.98	21	9.1	28	6.1	0.047	ND	13	ND	46	69
A-10-009 (40')	8.9	160	ND	1.4	25	13	53	6.9	0.026	ND	23	ND	63	88
A-10-010 (0-5')	3.7	150	0.66	0.96	26	11	19	6.3	0.068	ND	16	ND	56	61
A-10-011 (15')	4.0	160	0.91	ND	32	10	27	6.0	0.030	ND	19	ND	58	68
A-10-011 (20')	5.6	90	0.61	ND	26	8.2	24	4.3	0.036	ND	14	ND	48	49
A-10-011 (25')	2.0	25	ND	ND	15	2.1	5.0	ND	0.030	ND	6.9	ND	17	12
A-10-014 (15')	3.5	150	0.74	ND	22	9.9	21	4.4	0.035	ND	16	ND	55	58
A-10-014 (25')	6.0	180	0.92	0.69	39	12	36	6.6	0.051	ND	25	ND	79	79



Sample ID							M	IETALS						
(Depth)	As	Ва	Ве	Cd	Cr	Co	Cu	Pb	Hg	Мо	Ni	Se	٧	Zn
A-10-014 (50')	3.2	130	0.72	ND	37	8.5	24	4.8	0.043	2.7	17	ND	55	54
A-10-016 (10')	2.1	120	0.50	0.82	21	9.9	36	4.1	0.044	ND	14	ND	49	64
A-10-016 (20')	ND	120	ND	0.74	21	8.2	19	3.4	0.049	ND	13	ND	44	55
A-10-016 (30')	ND	160	ND	ND	14	5.6	25	ND	ND	ND	9.7	ND	27	40
A-10-019 (10')	4.5	150	ND	1.2	33	13	33	7.8	0.070	ND	25	ND	73	72
A-10-019 (20')	ND	100	ND	0.79	21	7.3	16	2.7	0.16	ND	12	ND	35	56
A-10-019 (30')	2.1	70	ND	0.61	20	5.7	14	3.2	0.038	ND	9.3	ND	39	37
A-10-021 (5')	3.3	130	0.50	1.1	26	9.9	21	4.2	0.034	ND	17	ND	54	62
A-10-021 (25')	ND	42	ND	ND	22	3.0	6.3	ND	0.022	ND	4.7	ND	19	19
A-10-021 (35')	ND	30	ND	ND	5.8	1.6	3.3	ND	0.025	ND	2.6	ND	11	10
A-10-021 (51')	3.7	56	ND	0.76	18	7.0	48	2.5	0.042	ND	11	ND	46	50
A-10-025 (5')	3.3	120	ND	1.0	23	10	21	4.4	0.033	ND	16	ND	47	57
A-10-025 (25')	3.1	140	ND	1.1	25	11	23	4.3	0.076	ND	18	ND	55	61
A-10-025 (30')	ND	36	ND	ND	7.5	2.6	15	ND	0.051	ND	4.2	ND	15	20
A-10-025 (45')	ND	58	ND	0.50	11	3.7	8.7	2.0	ND	ND	6.2	ND	28	22
A-10-029 (5')	6.7	140	ND	1.1	22	8.4	16	9.1	0.035	ND	15	ND	43	48
A-10-029 (10')	ND	73	ND	0.73	14	4.3	8.8	ND	0.048	ND	6.7	ND	42	24
A-10-029 (20')	ND	61	ND	0.73	15	5.9	79	2.4	0.046	ND	11	ND	30	64
A-10-031 (10')	28	110	ND	1.1	20	7.2	18	7.5	0.050	ND	12	ND	42	73
A-10-031 (20')	ND	120	ND	0.62	17	8.1	19	2.3	0.041	ND	12	ND	41	53
A-10-031 (30')	ND	110	ND	0.63	16	8.2	20	2.7	0.058	ND	12	ND	42	51
A-10-031 (40')	2.9	91	0.57	0.77	16	7.7	38	4.7	0.027	ND	11	ND	51	53
A-10-033 (10')	3.1	120	0.68	ND	23	9.3	21	4.3	ND	ND	14	4.0	62	54
A-10-033 (20')	3.6	92	0.79	ND	21	7.2	43	5.3	0.023	ND	13	4.0	63	49
A-10-033 (30')	ND	74	ND	ND	48	3.4	6.5	2.0	0.039	5.3	4.2	ND	23	18
A-10-033 (40')	ND	200	0.79	ND	28	22	35	7.7	0.034	ND	19	5.0	52	67
A-10-033 (50')	ND	170	0.79	ND	23	13	79	5.6	0.049	ND	15	4.1	55	85
A-10-034 (3'-5')	2.5	150	0.77	ND	24	9.4	15	6.0	0.055	ND	16	4.2	43	76



Sample ID	METALS													
(Depth)	As	Ва	Ве	Cd	Cr	Co	Cu	Pb	Hg	Мо	Ni	Se	٧	Zn
A-10-034 (20')	2.2	110	ND	ND	18	5.9	13	2.7	0.084	ND	7.8	ND	40	240
A-10-034 (30')	ND	65	ND	ND	12	4.3	26	ND	0.029	ND	5.8	3.3	34	37
A-10-034 (40')	2.3	95	ND	ND	25	6.3	13	2.9	0.073	2.0	8.7	5.2	36	49
A-10-034 (50')	2.0	87	0.50	ND	17	6.2	48	3.2	0.026	ND	8.6	2.3	36	82
A-10-041 (5')	2.1	150	0.52	0.95	23	9.4	17	4.1	0.034	ND	14	ND	45	47
A-10-041 (15')	2.2	150	0.52	0.96	24	11	18	4.1	0.031	ND	16	ND	42	50
A-10-041 (21')	ND	27	ND	ND	4.6	2.0	4.0	ND	0.041	ND	3.0	ND	13	14
A-10-045 (10')	ND	100	ND	0.65	18	6.6	13	2.7	ND	ND	11	ND	36	39
A-10-045 (20')	2.5	120	ND	0.75	21	8.4	18	3.3	0.15	ND	12	ND	44	50
A-10-045 (40')	ND	45	ND	ND	11	2.8	5.3	ND	0.037	ND	3.4	ND	21	18
A-10-045 (50')	ND	28	ND	ND	3.3	1.5	6.0	ND	ND	ND	ND	ND	9.7	11
A-10-051 (15')	2.8	100	0.50	ND	17	8.3	18	3.4	0.045	2.8	11	4.7	37	67
A-10-051 (25')	2.8	170	0.59	ND	25	8.9	20	4.2	0.040	2.3	13	3.9	42	63
A-10-051 (40')	ND	60	ND	ND	17	3.7	37	ND	0.076	2.0	3.5	3.2	25	86
A-10-054 (0-5')	3.4	110	0.58	0.95	26	9.0	19	5.7	0.047	ND	16	ND	45	56
A-10-055 (0-5')	3.0	120	ND	0.89	23	8.3	20	6.4	0.030	ND	15	ND	44	52

^{*} Metal analyses conducted using EPA Method 6010B, except mercury – analyzed using EPA Method 7471. Results reported in milligrams per kilogram.

^{**} Sb = Antimony, As = Arsenic, Ba = Barium, Be = Beryllium, Cd = Cadmium, Cr = Chromium, Co = Cobalt, Cu = Copper, Pb = Lead, Hg = Mercury, Mo = Molybdenum, Ni = Nickel, Se = Selenium, Ag = Silver, Tl = Thallium, V = Vanadium, Zn = Zinc.

^{***} From Conner & Schachlette, 1975, Background Geochemistry of Some Rocks, Soil, Plants, and Vegetables in the Conterminous U.S, U.S. Dept of the Interior.

ND Not detected at or above the laboratory detection limit cited.

TTLC Total threshold limit concentration. If a substance in a waste equals or exceeds its TTLC level (bold results), it is considered a hazardous toxic waste.

STLC Soluble threshold limit concentration. These limits are used for a separate analyses referred to as the Waste Extraction Test (WET) not conducted during this investigation.



<u>Pesticides</u>. Samples collected in the upper five feet were also tested for pesticide contamination. No pesticides were detected during this phase of environmental testing. Test results for Pesticides levels are shown in Table 6-4.

Table 6-4 - Pesticide Analyses

Sample ID (Depth)	DDD (µg/kg)	DDE (µg/kg)	DDT (µg/kg)
Detection Limits	5.0	5.0	5.0
A-10-003 (0-10')	ND	ND	ND
A-10-007 (0-5')	ND	ND	ND
A-10-009 (0-5')	ND	ND	ND
A-10-010 (0-5')	ND	ND	ND
A-10-021 (5')	ND	ND	ND
A-10-025 (5')	ND	ND	ND
A-10-029 (5')	ND	ND	ND
A-10-034 (3'-5')	ND	ND	ND
A-10-041 (5')	ND	ND	ND
A-10-054 (0-5')	ND	ND	ND
A-10-055 (0-5')	ND	ND	ND

Notes:

Analyzed using EPA Test Method 8081A.

DDD = Dichlorodiphenyl-dichloroethane, DDE = Dichlorodiphenyl-dichloroethylene,

DDT = Dichlorodiphenyl-trichloroethane

μg/kg Micrograms per kilogram; equivalent to parts per billion.

6.2 Groundwater Contamination

Chemical analyses were conducted on groundwater samples collected from four boreholes during the site investigation program at various times. Additional samples were taken and tested from the two installed groundwater monitoring wells at Borings A-10-036 and A-10-048. The laboratory analytical reports and chain of custody records are provided in Appendix C.

<u>Groundwater Field Measurements</u>. Field screening of water samples collected from the installed wells was conducted during groundwater monitoring. Water samples were screened for organic vapor emissions using a PID. Sample readings ranged from 0.9 to 22.3 ppm as shown in Table 6-5.

ND Not detected at or above the laboratory detection limit cited.



Table 6-5 – Groundwater PID Field Measurements

Sample ID (Depth)	Date	Initial Reading – P.I.D. (ppm)	Reading After 1 Minute -P.I.D.(ppm)
A-10-036-W (98.2')	4/26/10	11.0	0.9
A-10-048-W (54.5')	4/26/10	22.3	3.6

Notes:

Ppm - parts per million

Petroleum Hydrocarbons. Based on the laboratory test results, only four of the eight water samples were reported to have petroleum hydrocarbon concentrations. Samples from A-10-003 and A-10-009 were reported to have concentrations of GRO (C4-C12) ranging from 86 to 110 micrograms per liter. The sample from boring A-10-048 was reported to have low concentrations of both DRO (C13-23) and EFH (C13-C44). Also a sample from boring A-10-051 was reported to have concentrations of DRO (C13-23), ORO (C24-C44), and EFH (C13-C44) all above the detection limits. The concentration levels ranged from 0.6 to 1.9 mg/l and are considered to be well below environmental screening levels, which are on the order of 25 mg/L or 25,000 µg/L for groundwater contamination [Regional Water Quality Control Board (RWQCB)]. Test results for Petroleum Hydrocarbons levels are shown in Table 6-6.

Table 6-6 - Groundwater Petroleum Hydrocarbon Analyses

Sample ID (Depth)	GRO (C4–C12) (μg/)	DRO (C13-C23) (mg/l)	ORO (C24–C44) (mg/l)	EFH (C13-C44) (mg/l)
Detection Limits	50	0.50	0.50	0.50
A-10-003-W (87')	86	-	-	-
A-10-009-W (86')	110	-	-	-
A-10-036-W (97')	-	ND	ND	ND
A-10-048-W (54')	-	0.6	ND	0.94
A-10-050-W (50')	-	ND	ND	ND
A-10-051-W (56')	70	1.2	0.65	1.9
A-10-036-W (98.2')	-	ND	ND	ND
A-10-048-W (54.5')	-	ND	ND	ND

Notes:

Analyzed using EPA Test Method 8015B

GRO = Gasoline Range Organics, DRO = Diesel Range Organics, ORO = Oil Range Organics, EFH = Extractable Hydrocarbons

mg/l Milligrams per liter; equivalent to parts per million.

μg /l Micrograms per liter

ND Not detected at or above the laboratory detection limit cited.

Not analyzed.

<u>Dissolved Methane</u>. Six groundwater samples were tested for dissolved methane. The samples from borings A-10-003 and A-10-048 were reported to have methane concentrations ranging from 0.0041 mg/l (0.0041ppm) to 0.53mg/l (0.53ppm) of dissolved Methane. The reported concentration level is well below recommended action levels (Eltschlager and others, 2001),





which are usually on the order of 10 ppm to 28 ppm for dissolved methane. Test results for Dissolved Methane levels are shown in Table 6-7.

Table 6-7 - Dissolved Methane Analyses

Sample ID (Depth)	Methane (mg/l)
Detection Limits	0.0010
A-10-003-W (87')	0.53
A-10-009-W (86')	ND
A-10-036-W (97')	ND
A-10-048-W (54')	0.0041
A-10-036-W (98.2')	ND
A-10-048-W (54.5')	0.093

Notes:

Analyzed using EPA Test Method RSK-175 MOD

mg/l Milligrams per liter

ND Not detected at or above the laboratory detection limit cited.

<u>Polynuclear Aromatic Hydrocarbons</u>. No concentrations (above the detection limit) of Polynuclear Aromatic Hydrocarbons were detected within all seven groundwater samples tested. Test results for Polynuclear Aromatic Hydrocarbons levels are shown in Table 6-8.

Table 6-8 - Polynuclear Aromatic Hydrocarbon Analyses

Sample ID (Depth)	Acena- phthene (µg/l)	Acena- phthylene (μg/l)	Anthra- cene (μg/l)	Naph- thalene (µg/l)	Pyrene (µg/l)	Chrysene (µg/l)	Phe- nanthrene (µg/l)	Benzo- perylene (µg/I)
Detection Limits	10	10	10	10	10	10	10	10
A-10-003-W (87')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-009-W (86')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-036-W (97')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-048-W (54')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-050-W (50')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-051-W (56')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-036-W (98.2')	ND	ND	ND	ND	ND	ND	ND	ND
A-10-048-W (54.5')	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Analyzed using EPA Test Method 8270C.

μg/I Micrograms per liter; equivalent to parts per billion.

ND Not detected at or above the laboratory detection limit cited.





<u>pH</u>. The pH levels reported for the seven groundwater samples taken ranged from 7.14 to 8.20. As a result, there were no major concerns regarding pH related contamination. Test results for pH levels are shown in Table 6-9.

Table 6-9 - pH Level Analyses

Sample ID (Depth)	рН
Detection Limits	0.100
A-10-003-W (87')	8.20
A-10-009-W (86')	7.71
A-10-036-W (97')	7.39
A-10-048-W (54')	7.40
A-10-050-W (50')	7.14
A-10-051-W (56')	7.33
A-10-036-W (98.2')	7.09
A-10-048-W (54.5')	7.63

Notes:

Analyzed using EPA Test Method 8081A.

 $\mu g/l$ $\,$ Micrograms per liter; equivalent to parts per billion.

ND Not detected at or above the laboratory detection limit cited.



7 LIMITATIONS

This report is intended for the use of HMM and Metro. This report is based on the project as described and the information obtained from the exploratory borings at the approximate locations indicated on the attached plans. The findings and recommendations contained in this report are based on the results of the field investigation, laboratory tests, and engineering analyses. In addition, soils and subsurface conditions encountered in the exploratory borings are presumed to be representative of the project site. However, subsurface conditions and characteristics of soils between exploratory borings could vary. The findings reflect an interpretation of the direct evidence obtained. The recommendations presented in this report are based on the assumption that an appropriate level of quality control and quality assurance (inspections and tests) will be provided during construction. EMI should be notified of any pertinent changes in the project plans or if subsurface conditions are found to vary from those described herein. Such changes or variations may require a re-evaluation of the recommendations contained in this report.

The data, opinions, and recommendations contained in this report are applicable to the specific design element(s) and location(s) which is (are) the subject of this report. They have no applicability to any other design elements or to any other locations and any and all subsequent users accept any and all liability resulting from any use or reuse of the data, opinions, and recommendations without the prior written consent of EMI.

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Hydrology/Hydraulics and Drainage Report (Subtask 6.2.2.6)

Crenshaw/LAX Transit Corridor Project Advanced Conceptual Engineering Contract E0117

Prepared for:

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October 2010



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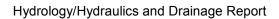
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1	10/04/10	K. Guzman	P. Cornwall J. Tran	F. Nourbakhsh	ACE final

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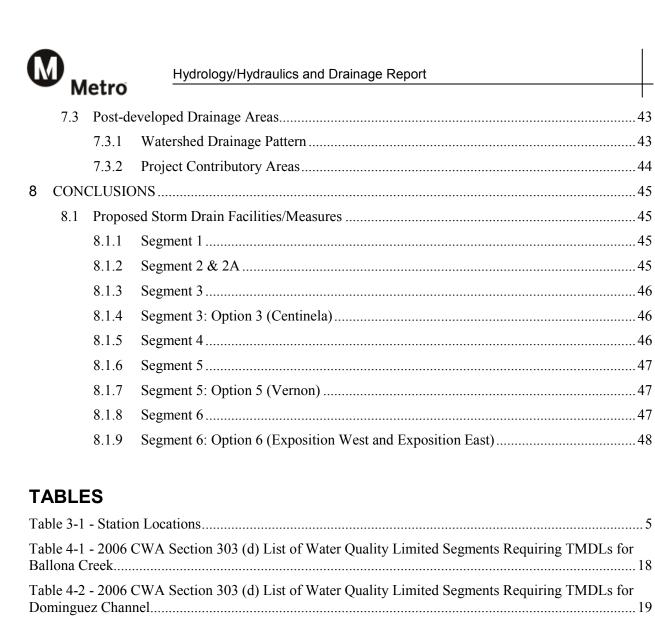
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1 EXECUTIVE SUMMARY

The Los Angeles County Metropolitan Transportation Authority (Metro) is planning transit improvements in the Crenshaw/LAX Transit Corridor (Project) to accommodate demand for travel in north-south and east-west directions. These improvements will provide more direct service between downtown Los Angeles and Los Angeles International Airport (LAX), and important connections between the Crenshaw corridor and downtown Los Angeles, the Westside, and the South Bay.

As part of the advanced conceptual engineering design services, Metro has requested that Hatch Mott MacDonald (HMM) prepare a series of specific studies to address key design issues.

This report discusses the hydrologic setting, regulatory requirements, construction impacts and specific drainage issues/solutions as they impact the Crenshaw/LAX Transit Corridor Project. It concludes that there are no construction impacts that cannot be mitigated, and implementation of the Project will not result in alteration of the existing watershed drainage pattern. It further discusses proposed storm drain facilities and measures. Impacts included in this report address drainage, flood hazards, and water quality. Information regarding the proposed project site drainage and grading conditions are taken from Los Angeles County Drainage Area Master Plan: Master Drainage Plan for the City of Los Angeles Area (Los Angeles County Flood Control and Water Conservation District 1991); Ballona Creek Watershed and Dominguez Creek Management Master Plan (County of Los Angeles Department of Public Works 2004); City of Los Angeles Integrated Resources Plan, (City of Los Angeles 2006), and California's Groundwater Bulletin 118 (California Department of Water Resources 2004).



4 HYDROLOGIC SETTING

4.1 General

The Crenshaw/LAX Transit Corridor Project area has a Mediterranean climate characterized by mild, wet winters and long, dry summers. The proximity and steep rise of the San Gabriel Mountains from the coast creates a barrier that traps moist ocean air against the mountain slopes and partially blocks summer heat coming from the desert and winter cold coming from the interior northeast. Mean monthly temperature ranges from 71.7 degrees Fahrenheit (°F) in August to 56.7°F in December, and mean annual precipitation is 13.32 inches per year with 92 percent of the rainfall occurring from October through March (WRCC 2007).

4.1.1 Drainage

The northern and central half of the Crenshaw/LAX Transit Corridor Project, which includes the entire alignment along Crenshaw Boulevard and a portion of the alignment along Florence Avenue, drain to Ballona Creek, which is located within the Ballona Creek watershed. *Figure 4-1 - Ballona Creek Drainage Features* illustrates the location of the Ballona Creek watershed. The remaining half of the study area, which includes a portion of alignment along Florence Boulevard and the entire alignment along Aviation Boulevard, drain to the Dominguez Channel which is located within the Dominguez Watershed. *Figure 4-2 - Dominguez Channel Drainage Features*, illustrates the location of the Dominguez watershed.

It should be noted that the proposed study area (LRT Alternative Track Alignment) lies approximately on the common boundary between the Dominguez Watershed and the Ballona Creek Watershed along portions of Segments 2, 3, 4 (for detailed segments description refer to Section 5.1.1.5 of this report). Therefore, at this ridgeline, stormwater flows away from these segments in a northwest direction above the Crenshaw/LAX Transit Corridor Project area and in a southeast direction below the Crenshaw/LAX Transit Corridor Project area.



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The Ballona Creek watershed drains an approximately 130-square-mile area consisting primarily of urban developed land. Surface runoff in the Ballona Creek watershed originates from many sources, including point-source discharges from industrial sources and stormwater. Irrigation runoff, residential car washing, fire fighting, groundwater dewatering at construction sites, and miscellaneous debris from illegal dumping and litter may also be discharged.

Structural flood control features consisting of debris basins, storm drains, underground culverts, and open concrete channels provide most of the storm drainage capacity within the watershed. Many of these flood control features, managed by the Los Angeles County Flood Control District (LACFCD), were designed and implemented by the United States Army Corps of Engineers (USACE) in the early twentieth century. Ballona Creek runs through an underground culvert in the east of the watershed, transitioning to an open, concrete-lined channel near Venice Boulevard and Pickford Street. Ballona Creek's major tributaries, the Benedict Canyon Channel and the Sawtelle-Westwood Flood Control System, are also channelized. Only a few channels remain open for major portions of their length, including the Sepulveda Channel (also known as Walnut Creek) and Centinela Creek. A small number of natural stream channels are found in the upper reaches of the watershed; however, these are several miles from the Crenshaw/LAX Transit Corridor Project area and at a higher elevation. Numerous storm drains also drain to Ballona Creek via an underground drainage system.

4.1.1.2 Ballona Creek

Ballona Creek is designed to convey approximately 71,400 cubic feet per second from the 50-year frequency storm event to Santa Monica Bay (Ballona Creek watershed Task Force 2004). Because of historic modifications to Ballona Creek and its tributaries, natural hydrologic conditions have been substantially modified within the watershed. Approximately 40 percent of the watershed is covered with impervious surfaces resulting from urban development; therefore, runoff enters the Ballona Creek and its tributaries at a more accelerated rate and in greater volume than it did historically (Ballona Creek Watershed Task Force 2004). Since most of the tributary channels are concrete-lined or within Underground box culverts, natural erosion and sedimentation processes have been altered. Under current conditions, eroded materials in stormwater runoff from the more natural upstream areas are transported downstream to the mouth of Ballona Creek where they collect and cause sedimentation and periodic closure of public boating facilities in Marina del Rey.

4.1.1.3 Dominguez Watershed

The Dominguez watershed is located in the coastal plain in the southwestern portion of the Los Angeles Basin with Baldwin Hills on the north and the Los Angeles and Long Beach Harbors on the south. Dominguez Channel flows downstream in a southerly direction, from the northerly area of the City of Hawthorne near the 105 Freeway. It traverses the Cities of Hawthorne, Torrance, Gardena, Carson and Los Angeles and ultimately discharges into the Pacific Ocean at the Ports of Los Angeles and Long Beach (City of Wilmington), as shown in *Figure 4-2*.

The Dominguez watershed drains an approximately 133-square-mile area consisting primarily of urban developed land. Surface runoff in the Dominguez watershed originates from many sources, including point-source discharges from industrial sources and stormwater. Irrigation runoff, residential car washing, fire fighting, groundwater dewatering at construction sites, and miscellaneous debris from illegal dumping and litter may also be discharged.

Structural flood control features consisting of debris basins, storm drains, underground culverts, and open concrete channels provide most of the storm drainage capacity within the watershed.



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Many of these flood control features, managed by the Los Angeles County Flood Control District (LACFCD), were designed and implemented by the United States Army Corps of Engineers (USACE) in the early twentieth century.

4.1.1.4 Dominguez Channel

Dominguez Channel has evolved over time as the region of Los Angeles has developed. Because of historic modifications to Dominguez Channel and its tributaries, natural hydrologic conditions have been substantially modified within the watershed. Approximately 62 percent of the watershed is covered with impervious surfaces resulting from urban development; therefore, runoff enters the Dominguez Channel and its tributaries at a more accelerated rate and in greater volume than it did historically. Since most of the tributary channels are concrete-lined or within underground box culverts, natural erosion and sedimentation processes have been altered. Under current conditions, eroded materials in stormwater runoff from the more natural upstream areas are transported downstream to the harbor where they collect and cause sedimentation.

4.1.1.5 LRT (General Alignment & Drainage Overview)

The following is a more detailed description of the previously described Crenshaw/LAX Transit Corridor Project segments. Both vertical and horizontal components are discussed with brief comments on drainage. All lengths were approximated.

Segment 1, BNSF ROW, City of Los Angeles

Segment 1 of the alignment corridor begins at the existing Aviation/105 Freeway Station and continues northerly within the BNSF ROW to the proposed Aviation/Century Station. Along this portion of the corridor alignment, land uses are primarily for the Los Angeles Airport (LAX).

Beginning at the existing Aviation/105 Freeway Station, the alignment remains aerial for 500 linear feet, at which point the alignment enters a 900 linear feet transition to a below-grade segment that continues for 2900 linear feet. Near the intersection with 104th Street, the alignment goes through a 1000 linear feet transition back to an aerial section and arrives at the proposed Aviation/Century Station.

This segment does not lie within any Federal Emergency Management Agency (FEMA) designated floodplain. While some site grading and a minor increase in impervious area (support columns and grade transitions) will occur, drainage patterns will not be substantially altered. This is due to the fact that this entire segment is aerial or below-grade. A substantial drainage structure (6' x 10' open trapezoidal channel to west) exists along the west boundary of this segment from approximately Imperial Highway to Century Boulevard on LAX property. This structure will be replaced with a below-grade storm drain system constructed on top of the proposed tunnel structure. This will have the effect of increasing the pervious area by approximately 1 acre. An 8' x 8' concrete box culvert (approximately 11 feet to the bottom of the structure) crosses the BNSF ROW easterly at 111th Street where the LAX channels converge. Therefore, adequate storm drain systems are available to this segment to provide for proper drainage and flood protection. For this segment, storm water is collected and discharged, eventually to the Dominguez Channel.

Segment 2, BNSF ROW, Cities of Inglewood and Los Angeles

Segment 2 of the alignment corridor begins at the proposed Aviation/Century Station and continues northerly and easterly within the BNSF ROW to the proposed Florence/La Brea Station. Along this portion of the corridor alignment, land uses which lie adjacent to the Crenshaw/LAX Transit Corridor Project are primarily commercial/industrial.





Starting at the proposed Aviation/Century Station, the alignment remains aerial for 500 linear feet, at which point it enters a 600 linear feet transition into an at-grade segment that is 3200 linear feet in length. A 500 linear feet segment transitions the alignment back into an aerial segment that is 680 linear feet in length, crossing Manchester Avenue. From there, a 320 linear feet transition converts the alignment back to an at-grade configuration that is 1100 linear feet in length, heading northeasterly down Florence Avenue until it transitions for 600 linear feet into an aerial alignment that is 1000 linear feet in length. It crosses Interstate Highway 405. An additional 420 linear feet transition leads back to a 3800 linear feet at-grade alignment down Florence Avenue. The segment ends at the Florence/La Brea Station.

This segment does not lie within any FEMA designated floodplains. While some site grading and a minor increase in impervious area (support column bases for aerial alignment) will occur, drainage patterns will not be substantially altered. This segment is either at the natural grade established by the BNSF rail-bed or aerial, and will not significantly impact drainage patterns. Adequate storm drain systems are available to provide drainage protection for the at-grade portion of this segment. Because localized drainage is already established based on the existing BNSF track and rail bed, at-grade drainage patterns are not anticipated to be altered.

Segment 3, BNSF ROW, City of Inglewood

Segment 3 of the alignment corridor begins at the proposed Florence/La Brea Station and continues northeasterly within the BNSF ROW to the proposed West Boulevard Station. Along this portion of the corridor alignment, land uses which lie adjacent to the Crenshaw/LAX Transit Corridor Project are mixed and include commercial/office, industrial, residential and open-space park land.

Starting at the proposed Florence/La Brea Station, the alignment continues in a northeasterly direction within the BNSF ROW. It enters a 300 linear feet transition from an at-grade configuration to a below-grade alignment at La Brea Avenue and continues for 535 linear feet. From there, the proposed alignment goes through an additional 600 linear feet transition back to an at-grade configuration in a northeasterly direction along the northern side of the Florence Avenue ROW. At the Florence/Redondo Boulevard split, the alignment continues northeast alongside Redondo Boulevard in BNSF ROW towards the Florence/West Station. The at-grade segment accounts for 5200 linear feet of the remaining alignment.

This segment does not lie within any FEMA designated floodplains. While some site grading, retaining walls, and a minor increase in impervious area (support column bases for aerial alignment) will occur, drainage patterns will not be substantially altered. The majority of this segment is at the natural grade and will not significantly impact drainage patterns. Adequate storm drain systems are available to provide drainage protection for the at-grade portion of this segment. Aerial guideway drains at support column bases, will be designed to connect into the existing systems. This is typical throughout the proposed alignment for aerial structures and stations. Because localized drainage is already established based on the existing BSNF track and rail bed, at-grade drainage pattern alterations are not anticipated.

Segment 3, Option 3 (Centinela)

Option 3 of the alignment corridor begins at the proposed Florence/La Brea Station and continues northeasterly within the BNSF ROW to the proposed Florence/West Station. Along this portion of the corridor alignment, land uses which lie adjacent to the Crenshaw/LAX Transit Corridor Project are mixed and include commercial/office, industrial, residential and open-space park land.

Option 3 consists of a below-grade alignment at the intersection with Centinela Avenue. The same comments previously discussed in Segment 3 apply to this Option.





Segment 4, Crenshaw ROW/BNSF ROW, Cities of Los Angeles and Inglewood

Segment 4 of the alignment corridor begins at the proposed Florence/West Station and continues northeasterly at-grade within BNSF ROW along Florence Avenue. Next it continues northerly along Crenshaw Boulevard to the proposed Crenshaw/Slauson Station. Adjacent land uses along both portions of the segment are commercial and industrial mixed with some residential.

Segment 4 of the alignment corridor begins at the proposed Florence/West Station and continues northeasterly at-grade within BNSF ROW along Florence Avenue for 780 linear feet, at which point a 750 linear feet transition leads to a below-grade alignment. This continues for 3000 linear feet. Within the below-grade design, the Crenshaw/LAX Transit Corridor alignment changes direction from a northeasterly bearing to a northerly bearing adjacent to the intersection of Crenshaw Boulevard and 66th Place. Once below Crenshaw Boulevard, the proposed alignment goes from being within BNSF ROW to Crenshaw Boulevard ROW. Adjacent to the 60th Street/Crenshaw Boulevard intersection, the project alignment goes through a 500 linear feet transition to an at-grade design (at the 59th Street intersection). It continues for 500 linear feet before terminating at the Crenshaw/Slauson Station.

The alignment corridor along the Crenshaw Boulevard portion of the alignment is mostly paved with some adjacent landscaping. The portion of the segment that is within the BNSF ROW is unpaved area but would not be expected to have high stormwater storage capacities or infiltration rates due to low vegetation and high compaction needed to support the existing railroad bed.

The segment does not lie within any FEMA designated floodplains. While some site grading will occur, there will be no increase in impervious area and, drainage patterns will not be substantially altered. Adequate storm drain systems are available to the segment to provide for proper drainage and flood protection with the development of the Crenshaw/LAX Transit Corridor Project. For Segment 4, surface water is collected by these storm drains that eventually discharge to the Ballona Creek and Dominguez Channel.

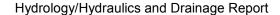
Segment 5, Crenshaw Boulevard ROW, City of Los Angeles

The Segment 5 alignment corridor begins at the Crenshaw/Slauson station, and continues north along Crenshaw Boulevard and ends south of Martin Luther King Jr. Boulevard at the proposed Crenshaw/MLK Station. An optional station, Crenshaw/Vernon, may be incorporated between the two aforementioned stations. The surface conditions along the at-grade portions include the fully paved street (Crenshaw Boulevard) with primarily commercial/office and high-density residential land uses.

The first 4500 linear feet of Segment 5 consists of an at-grade design within Crenshaw Boulevard ROW. The surface conditions along this portion include the fully paved street (Crenshaw Boulevard) with land use primarily commercial/office and high-density residential. Surface water in this area is collected by storm drains that eventually discharge to Ballona Creek. Near the 48th Street/Crenshaw Boulevard intersection, a 430 linear feet segment transitions the alignment below-grade. This continues 2700 linear feet north and ends at the Crenshaw/MLK Station.

Surface water in the at-grade area is collected by storm drains that eventually discharge to Ballona Creek. The below-grade portion of the alignment shall only be impacted by stormwater at station access points for the proposed underground Crenshaw/MLK Station. Although Segment 5 does <u>not</u> lie within either a 100-year or 500-year FEMA Flood Plain Area, City of Los Angeles maps do log several "drainage complaints" in the area of Vernon Avenue at Crenshaw Boulevard. However, with the proposed below-grade alignment in that area, this should not present additional drainage issues. While some site grading will occur, there will be no increase in impervious area and drainage patterns will not be substantially altered. Adequate storm drain







systems do exist in the area to provide protection from flooding for the Crenshaw/LAX Transit Corridor Project.

Segment 5, Option 5 (Vernon)

Option 5 consists of below-grade station alternative, along with the associated below-grade alignment. The alternative alignment begins as a transition below ground at the 50th Street/Crenshaw Boulevard intersection and shifts east outside of the Crenshaw Boulevard ROW, at the Leimert Boulevard/Crenshaw Boulevard intersection. It adjoins back to the proposed baseline alignment immediately north of the Crenshaw Boulevard/43rd Street intersection.

The first 3700 linear feet of Segment 5 consists of an at-grade design within Crenshaw Boulevard ROW. As with the baseline alignment option, the surface conditions along this portion include the fully paved street (Crenshaw Boulevard) with land use primarily commercial/office and high-density residential.

Surface water in this area is collected by storm drains that eventually discharge to Ballona Creek.

Near the 50th Street/Crenshaw Boulevard intersection, a 430 linear feet segment transitions the alignment below-grade. This continues 3500 linear feet north and ends at the Crenshaw/MLK Station. The below-grade portion of the alignment shall only be impacted by stormwater at station access points for the proposed underground Crenshaw/MLK Station.

Although Segment 5 does <u>not</u> lie within either a 100-year or 500-year FEMA Flood Plain Area, City of Los Angeles maps do log several "drainage complaints" in the area of Vernon Avenue at Crenshaw Boulevard. However, with the proposed below-grade alignment in that area, this should not present additional drainage issues. As with the baseline alignment option, some site grading will occur, but there will be no increase in impervious area and drainage patterns will not be substantially altered. Adequate storm drain systems do exist in the area that provides protection from flooding for the Crenshaw/LAX Transit Corridor Project.

Segment 6, Option 6 (Expo West) and Option 6 (Expo East)

Option 6 consists of two below-grade station options located either the east or west side of Crenshaw Boulevard and the associated tunnel alignments that extend from 39th Street to Jefferson Boulevard. Option 6 (East) involves a below-grade alignment that shifts east, out of the Crenshaw Boulevard ROW, at the Coliseum Street/Crenshaw Boulevard intersection. A below-grade station is proposed at the location of an existing parking lot located southeast of the Exposition Boulevard/Crenshaw Boulevard intersection. Afterwards, the alignment transitions back into the Crenshaw Boulevard ROW and ends at station 457+20.55 rather than 450+00.00 (baseline alignment). Option 6 (West) involves a below-grade alignment that shifts out of Crenshaw Boulevard ROW to the west, beginning at the Coliseum Street/Crenshaw Boulevard intersection. The alignment meets a below-grade station immediately west of the Exposition Boulevard/Crenshaw Boulevard intersection before transitioning back into the Crenshaw Boulevard ROW. The alignment ends at station 459+78.95 rather than 450+00.00 (baseline alignment).

Option 6 (East and West) consists of a below-grade alignment for the entire length of Segment 6, therefore there shall be no change in the percentage of impervious areas along Crenshaw Boulevard ROW, nor shall drainage patterns be substantially altered.

It should be noted that Segment 6 is located within a 500-year FEMA floodplain for the entire alignment length. However, the City of Los Angeles mapping of "Drainage Complaints Received" shows no complaints for this area of Crenshaw Boulevard in regards to flooding. Some site grading will occur.





4.1.2 Flooding

4.1.2.1 Regional

Los Angeles and nearby cities are located in a relatively flat alluvial plain, about 30 miles wide lying on uplift terraces surrounded by mountain ranges. From the outwash fans at the northern edge of this alluvial plain to the tops of the higher peaks, there is a difference in elevation of as much as 4,500 feet.

Los Angeles County is subject to a wide range of flood hazards, including floods caused by earthquakes, intense storms, and failure of man-made structures. Two damaging regional tsunamis caused by the 1812 Santa Barbara and the 1927 Point Arguello earthquakes indicate that faults off the coast of Southern California are capable of producing large local tsunamis. The tsunami concern is heightened because the short historical record does not adequately characterize the long-term tsunami risk.

The USACE operates and maintains five major flood control reservoirs within the Los Angeles System: the Hansen, Lopez, Santa Fe, Sepulveda, and Whittier Narrows reservoirs. The Los Angeles County Department of Public Works operates and maintains 15 dams, about 143 sediment entrapment basins, and 29 spreading grounds. Local storm drains and pump stations are maintained by the Department, cities, Caltrans, and certain homeowner associations.

The Federal Emergency Management Agency (FEMA) has prepared flood maps identifying areas in Los Angeles County that would be subject to flooding during 100-year and 500-year storms events. Note that these maps indicate that no portion of the proposed Crenshaw/LAX Transit Corridor Project is located within a Special Flood Hazard Area (SFHA) for 100-year storm events. However, Segment 6, along Crenshaw Boulevard between Exposition Boulevard and Martin Luther King Jr. Boulevard, lies within the 500-year flood plain as shown on the FEMA maps.

4.2 Surface Water Quality

4.2.1 Ballona Creek Watershed

According to the Water Quality Control Plan for the Los Angeles Region (Basin Plan), prepared by the Regional Water Quality Control Board (RWQCB) Region 4, the designated beneficial uses for upper Ballona Creek are water non-contact recreation and wildlife habitat. Potential beneficial uses are municipal and domestic water supply and water contact recreation, although access to the creek is prohibited by the Los Angeles County Department of Public Works. The lower reaches of Ballona Creek (to the estuary) have the same potential and designated beneficial uses as upper Ballona Creek, except that wildlife habitat is listed as only a potential beneficial use.

The Ballona Lagoon/Venice Canals and Ballona Estuary have a number of designated beneficial uses, according to the Region 4 (RWQCB) Basin Plan, including: navigation; water contact and water non-contact recreation; commercial and sport fishing; estuarine habitat; marine habitat; wildlife habitat; rare, threatened, and endangered species; migration of aquatic organisms; spawning, reproduction, and early development of fish; and, shellfish harvesting. Santa Monica Bay and Marina Del Rey, are designated for existing navigation; contact and non-contact recreation; commercial and sport fishing; estuarine habitat; marine habitat; wildlife habitat; rare, threatened or endangered species habitat; migration habitat; spawning habitat; and shellfish harvesting.







Once beneficial uses have been designated, appropriate water quality objectives can be established and programs that maintain or enhance water quality can be implemented to ensure the protection of beneficial uses. These designated beneficial uses, together with water quality objectives (referred to as water quality criteria in federal regulations), form water quality standards. Such standards are mandated for all water bodies within the state under the California Water Code. In addition, the federal *Clean Water Act* (CWA) mandates standards for all surface waters, including wetlands.

Where multiple uses exist, water quality standards must protect the most sensitive use. Water quality standards are typically numeric, although narrative criteria based upon biomonitoring methods may be employed where numerical standards cannot be established or where they are needed to supplement numerical standards. Section 303(c)(2)(b) of the CWA requires states to adopt numerical water quality standards for toxic pollutants for which the Environmental Protection Agency (EPA) has published water quality criteria and which reasonably could be expected to interfere with designated uses in a water body.

The Basin Plan indicates that Ballona Creek is impaired by pollutants from industrial and municipal effluent, and urban nonpoint runoff. In addition, untreated sewage overflows discharged into Ballona Creek during the rainy season have historically caused beach closures along Santa Monica Bay. Specific pollutants include high levels of dissolved solids (e.g., chlorides, sulfates, heavy metals), bacteria, nutrients from fertilizers and other sources, petroleum hydrocarbons, sediment, solid waste and debris. Rainfall results in these contaminants entering municipal storm drains, which subsequently convey the contaminants to surface waters. In addition, high concentrations of DDT in sediments at the mouth of Ballona Creek and in Marina del Rey provide evidence of past discharges that have resulted in long-term water quality issues.

The State of California's principal water quality law is the Porter-Cologne Water Quality Act (Porter Cologne). Porter Cologne is implemented in the Los Angeles Region by the California Water Quality Control Plan, Los Angeles Region (Basin Plan). The Basin Plan sets water quality standards for the Los Angeles Region, which includes beneficial uses for surface and ground water with the numeric and narrative objectives necessary to support those uses, and the state's antidegradation policy. The Basin Plan also describes implementation programs to protect all waters in the region. The Basin Plan, along with the Water Quality Control Plan for Ocean Waters of California (Ocean Plan), serves as the State Water Quality Control Plan for the channels, marinas and harbors within the Los Angeles Region.

These plans are required by and in compliance with the federal Clean Water Act (CWA). Section 303(d)(1)(A), of the CWA, requires each state to conduct a biennial assessment of its waters, and identify those waters that are not achieving water quality standards (Los Angeles Regional Water Quality Control Board, 2003a). The resulting list is referred to as the "303(d) list of impaired waters." The list is required to develop and implement Total Maximum Daily Loads (TMDL) for these waters.

A TMDL specifies the maximum amounts of each pollutant that water body can receive and still meet water quality standards, and allocates the pollutant loadings to point and nonpoint sources. The elements of a TMDL are described in 40 CFR 130.2 and 130.7 and Section 303(d) of the CWA, as well as in U.S. Environmental Protection Agency guidance (U.S. EPA, 1991). A TMDL is defined as the "sum of the individual waste load allocations for point sources and load allocations for nonpoint sources and natural background" (40 CFR 130.2) such that the capacity of the waterbody to assimilate pollutant loads (the loading capacity) is not exceeded. TMDLs must take into account seasonal variations and include a margin of safety to address uncertainty in the analysis (40 CFR 130.7(c)(1)). Finally, states must develop water quality management plans to implement the TMDLs (40 CFR 130.6).





Hydrology/Hydraulics and Drainage Report

The U.S. EPA has oversight authority for the 303(d) program and is required to review and either approve or disapprove the state's 303(d) list and each TMDL developed by the state. If the state fails to develop a TMDL in a timely manner or if the U.S. EPA disapproves a TMDL submitted by a state, EPA is required to establish a TMDL for that waterbody (40 CFR 130.7(d)(2).

As part of its 1996 and 1998 regional water quality assessments, the Regional Board identified over 700 water body-pollutant combinations in the Los Angeles Region where TMDLs would be required (LARWqcb, 1996, 1998). A 13-year schedule for development of TMDLs in the Los Angeles Region was established in a consent decree (Heal the Bay, Inc., et al. v. Browner, et al. C-98-4825 SBA) (United States District Court, Northern District of California, 1999) approved on March 22, 1999.

All projects resulting in discharges, whether to land or water, are subject to Section 13263 of the California Water Code and are required to obtain approval of Waste Discharge Requirements (WDRs) by the RWQCBs. Land and groundwater-related WDRs (i.e., non-NPDES WDRs) regulate discharges of privately or publicly treated domestic wastewater and process and wash down wastewater. WDRs for discharges to surface waters also serve as National Pollutant Discharge Elimination System (NPDES) permits, which are further described below.

Point sources of discharges to surface waters, such as those from industrial facilities, contain a broad range of potential contaminants. Locally, these discharges are regulated by the RWQCB under NPDES permit regulations, which have been in effect since the 1970s. The quality of base flow waters is defined by these discharges along with other, nonregulated dry weather flow such as landscape irrigation, car washing, drainages from upland areas, and others.

The quality of water in Ballona Creek is monitored monthly by the Los Angeles County Department of Public Works, Flood Control Division. Water sampling stations in the vicinity are located along Ballona Creek. Stormwater quality will generally be affected by both the site land use, adjacent land use, amount of impervious surfaces, any stormwater quality best management practices (BMPs) implemented, the amount of rainfall (concentration dilution and total load), and amount of time between rainfall events (pollutant build-up). From this information gathered by Los Angeles County, the 303(d) list is prepared in compliance with the requirements of CWA and is attached as *Table 4-1 – 2006 CWA Section 303 (d) List of Water Quality Limited Segments Requiring TMDLs for Ballona Creek*.





Table 4-1 - 2006 CWA Section 303 (d) List of Water Quality Limited Segments Requiring TMDLs for Ballona Creek

2006 CWA Section 303(d) List of Water Quality Limited Segments Requiring TMDLs

Region	Name	Calwater Watershed	Pollutant/Stressor	Potential Sources	Estimated Size Affected	Proposed TMDL Completion
4	Ballona Creek	40513000	Cadmium (sediment)	Nonpoint/ Point Sources	6.5 miles	2005
			Cyanide	Source Unknown	6.5 miles	2019
			Silver (sediment)	Nonpoint Sources	6.5 miles	2005

Source Los Angeles Regional Water Quality Control Board. USEPA Approved June 24, 2007

4.2.2 Dominguez Watershed

According to the Water Quality Control Plan for the Los Angeles Regional (Basin Plan) prepared by said RWQCB, the watershed of the Dominguez Channel and the Los Angeles and Long Beach Harbors is an enormously important industrial, commercial and residential area with unique and important historical and environmental resources. The area includes 18 municipalities within and including Los Angeles County and roughly 1 million residents. Prior to its development, the area was largely marshland and now, almost no wetland or original coastline exists. Water quality decreased until development reached a nadir in the 1970s. Since then, the water quality has improved but there are still significant water quality and sediment quality challenges.

The ports of Los Angeles and Long Beach occupy over 10,500 acres of land and water. The Inner Harbors contains piers for ship loading and unloading and several marinas. The outer part of both harbors (the greater San Pedro Bay) has been less disrupted than the inner areas and supports a great diversity of marine life. It is open to the ocean and its eastern end and receives much greater ocean flushing than inner harbor areas.

There are many permitted discharges to the watershed. There are approximately 60 active, individual NPDES permitted discharges to the Dominguez channel and to the Los Angeles and Long Beach Harbors. These include four refineries which discharge stormwater to the Dominguez Channel intermittently, two generation stations which discharge to the inner harbor areas and the Terminal Island Treatment Plant. The Terminal Island Treatment Plant is the single POTW which discharges to the watershed. This secondary-treated effluent is discharged to the outer Los Angeles and Long Beach Harbor and is under a time schedule order to eliminate the discharge. In addition, there are approximately 50 active, general NPDES-permitted discharges to the watershed.

The Basin Plan designates beneficial uses for water bodies in the Los Angeles Region. These uses are recognized as existing (E), potential (P), or intermittent (I) uses. All beneficial uses, whether E, P or I, must be protected. Beneficial use designations in the Dominguez Channel and the Harbors include Industrial Service Supply (IND), Navigation (NAV), Contact (REC-1) and Non-contact Recreation (REC-2), Commercial and Sport Fishing (COMM), Estuarine Habitat





(EST), Marine Habitat (MAR), Wildlife Habitat (WILD), Rare, Threatened, or Endangered Species Habitat (RARE), Migration of Aquatic Organisms (MIGR), Spawning, Reproduction and/or Early Development (SPWN), Shellfish Harvesting (SHELL) and associated wetlands (WET).

Surface water quality runoff is regulated by the same federal and state laws as stated previously. The quality of runoff waters from the Dominguez Watershed is monitored monthly by the Los Angeles County Department of Public Works, Flood Control Division. Stormwater quality will generally be affected by both the site land use, adjacent land use, amount of impervious surfaces, any stormwater quality best management practices (BMPs) implemented, the amount of rainfall (concentration dilution and total load), and amount of time between rainfall events. From this information, gathered by Los Angeles County, the 303(d) list is prepared in compliance with the requirements of the CWA and is attached as *Table 4-2 – 2006 CWA Section 303 (d) List of Water Quality Limited Segments Requiring TMDLs for Dominguez Channel*.

Table 4-2 - 2006 CWA Section 303 (d) List of Water Quality Limited Segments Requiring TMDLs for Dominguez Channel

Region	Name	Calwater Watershed	Pollutant/Stressor	Potential Sources	Estimated Size Affected	Proposed TMDL Completion
4	Dominguez Channel Estuary	40512000	Dieldrin (tissue)	Nonpoint/ Point Source	140 Acres	2019
			Lead (Tissue)	Nonpoint/ Point Source	140 Acres	2019
			PCBs (Polychlorinated byphenyls)	Source Unknown	140 Acres	2019
			Phenanthrene	Source Unknown	140 Acres	2019
			Pyrene	Source Unknown	140 Acres	2019
			Zinc (sediment)	Nonpoint/ Point Source	140 Acres	2019
			Benzo(a) Pyrene (PAHs)	Source Unknown	140 Acres	2019
			Benzo(a) Anthracene	Source Unknown	140 Acres	2019
			Chlordane (tissue)	Nonpoint/ Point Source	140 Acres	2019
			Chrysine (C1-C4)	Source Unknown	140 Acres	2019
			Coloform Bacteria	Nonpoint/ Point Source	140 Acres	2007
			DDT (tissue & sediment)	Nonpoint/ Point Source	140 Acres	2019



Region	Name	Calwater Watershed	Pollutant/Stressor	Potential Sources	Estimated Size Affected	Proposed TMDL Completion
4	Dominguez Channel	40351000	Ammonia	Nonpoint/ Point Source	6.7 mile	2019
			Copper	Nonpoint/ Point Source	6.7	2019
			Dieldrin (tissue)	Nonpoint/ Point Source	6.7	2019
			Indicator bacteria	Nonpoint/ Point Source	6.7	2007
			Sediment Toxicity	Source Unknown	6.7	2019
			Zinc (sediment)	Nonpoint/ Point Source	6.7	2019
4	Dominguez Channel Estuary	40512000	Ammonia	Nonpoint/ Point Source	140 Acres	2019
			Benthic Community Effects	Nonpoint/ Point Source	140 Acres	2019

Source: Los Angeles Regional Water Quality Control Board. USEPA Approved June 24, 2007

4.3 Groundwater

The northerly portion of the Crenshaw/LAX Transit Corridor Project study area, which includes segments 4, 5 and a portion of 6, overlies the Santa Monica Sub-basin. The westerly and southerly portions of the Crenshaw/LAX Transit Corridor Project study area overlie the West Coast Groundwater Basin. The beneficial uses for these basins include municipal and domestic supply, industrial supply, industrial process supply and agricultural supply.

4.3.1 Santa Monica Sub-basin

The Santa Monica Sub-basin underlies the northwestern part of the Coastal Plain of Los Angeles Groundwater Basin. It is bounded by the impermeable rocks of the Santa Monica Mountains on the north and by the Ballona escarpment on the south. The sub-basin extends from the Pacific Ocean on the west to the Inglewood fault on the east. The Santa Monica Sub-basin is within the service areas of the Metropolitan Water District of California (MWD) and member agencies of the cities of Santa Monica, Los Angeles, Beverly Hills, and West Basin MWD. It underlies the cities of Santa Monica, Culver City, and Beverly Hills and the communities of Pacific Palisades, Brentwood, Venice, Marina del Rey, West Los Angeles, Century City and Mar Vista. The Santa Monica Sub-basin is divided into five additional sub-basins: Arcadia, Olympic, Coastal, Charnock, and Crestal (CDWR 2004; MWDC 2007, 5-1).



and the remaining portion of 4, fall within the existing BNSF rail-bed alignment. Rail-beds are placed on highly compacted soils. Crushed rock, under the rails and ties allow surface water to drain to subterranean structures that then collect the water into underground storm drain systems. No standing water will accumulate along the alignment, so no infiltration will occur in the non-vegetated, compacted soils. Light rainfall will evaporate. Therefore, rail-bed areas will also not contribute to groundwater recharge.

Due to the possibility of high groundwater table, dewatering systems may be proposed for certain areas as required (such as where tunneling and caissons are used). In addition, any contaminated groundwater will not be discharged to the storm drain system. All groundwater encountered during construction will be properly treated in accordance with local, state and federal regulations as stated within this report. (Section 5.3.7)

4.4 Water Supplies and Groundwater Usage

4.4.1 City of Los Angeles

The residents of West Los Angeles do not use any groundwater resources for public water supplies (U.S. EPA 2007). Surface water supplies are obtained from Colorado River Aqueduct, LA Aqueduct from Owens Valley, and State Water Project Aqueduct from the Northern California rivers (U.S. EPA 2007). Los Angeles joined MWD as a founding member in 1928. MWD provides a mix of municipal and industrial water services to a population of approximately 4,002,071. The Los Angeles Department of Water and Power (LADWP) is responsible for supplying the city with water and electricity. Los Angeles primary source of water comes from the Owens Valley and Mono Basin areas of the eastern Sierra Nevada through the gravity-flow Los Angeles Aqueduct system (LAA) extending some 338 miles. Because of environmental commitments in the Mono Basin and Owens Valley, less water is available to Los Angeles from its LAA system.

4.4.2 City of Inglewood

The City of Inglewood provides water to 86 percent of the residences and businesses within the City. Water is provided in the remaining areas by Golden State Water Company and Cal-American Water. The Cal-American Water Company serves a small area in the northwest portion of the City. The Golden State Water Company, formerly Southern California Water Co., provides water to a significant area located south of Century Boulevard to the City's boundary. The City purchases approximately 55 percent of its water from West Basin Municipal Water District (MBMWD) and pumps approximately 45 percent from the City's local groundwater basin. The water provided by the City is pumped from City-owned wells, treated, and blended with water purchased from the West Basin Municipal Water District.

4.4.3 City of El Segundo

The City of El Segundo purchases all of their water from the Metropolitan Water District (MWD). Therefore, the residents of El Segundo do not use any local groundwater resources in a very similar manner as the City of Los Angeles. El Segundo's water division supplies water to the City's customers and performs the operation maintenance and repair of the City's water distribution system.





5 REGULATORY OVERVIEW (WATER QUALITY)

5.1 Federal

5.1.1 Clean Water Act

The federal CWA was designed to restore and maintain the chemical, physical, and biological integrity of the Nation's waters. The CWA also directs states to establish water quality standards for all "waters of the United States" and to review and update such standards on a triennial basis. Other provisions of the CWA related to basin planning include Section 208, which authorizes the preparation of waste treatment management plans, and Section 319, which mandates specific actions for the control of pollution from nonpoint sources. The EPA has delegated responsibility for implementation of portions of the CWA to the State Water Resource Control Board (SWRCB) and the RWQCB, including water quality control planning and control programs, such as the National Pollutant Discharge Elimination System (NPDES) Program.

5.1.2 Executive Order 11988 (Floodplain Management)

Executive Order 11988 (Floodplain Management) links the need to protect lives and property with the need to restore and preserve natural and beneficial floodplain values. Specifically, Federal agencies are directed to avoid conducting, allowing, or supporting actions on the base location. Similarly, Department of Transportation (DOT) Order 5650.2, which implements Executive Order 11988 (Floodplain Management) and was issued pursuant to the *National Environmental Policy Act of 1969*, the *National Flood Insurance Act of 1968*, and the *Flood Disaster Protection Act of 1973*, prescribes policies and procedures for ensuring that proper consideration is given to the avoidance and mitigation of adverse floodplain impacts in agency actions, planning programs, and budget requests. Refer to **Appendix B** for details.

5.1.3 Floodplain Development

Federal Emergency Management Agency (FEMA) is responsible for determining flood elevations and floodplain boundaries based on USACE studies and approved agency studies. FEMA is also responsible for distributing the Flood Insurance Rate Maps (FIRMs), which are used in the National Flood Insurance Program (NFIP). These maps identify the locations of Special Flood Hazards Areas (SFHAs), including the 100-year flood zone. FEMA allows nonresidential development in SFHAs; however, construction activities are restricted depending upon the potential for flooding within each area. Federal regulations governing development in a SFHA are set forth in Title 44, Part 60 of the Code of Federal Regulations (CFR), which enables FEMA to require municipalities that participate in the National Flood Insurance Program (NFIP) to adopt certain flood hazard reduction standards for construction and development in 100-year floodplains. In addition, the *Flood Disaster Protection Act of 1973* and the *National Flood Insurance Reform Act of 1994* mandate the purchase of flood insurance as a condition of Federal or federally-related financial assistance for acquisition and/or construction of buildings in SFHAs of any community.



5.2 State

Responsibility for the protection of water quality in California rests with the SWRCB and nine RWQCBs. The SWRCB establishes statewide policies and regulations for the implementation of water quality control programs mandated by federal and state water quality statutes and regulations. The RWQCBs develop and implement Water Quality Control Plans (Basin Plans) that consider regional beneficial uses, water quality characteristics, and water quality problems. The Los Angeles RWQCB implements a number of federal and state laws, the most important of which are the state *Porter-Cologne Water Quality Control Act* and the federal CWA. In California, the RWQCB issues Water Quality Certifications pursuant to Section 401 of the CWA.

All projects resulting in discharges, whether to land or water, are subject to Section 13263 of the California Water Code and are required to obtain approval of Waste Discharge Requirements (WDRs) by the RWQCB. WDRs for discharges to surface waters meet requirements for National Pollution Discharge Elimination System (NPDES) permits, which are further described below. Land and groundwater-related WDRs (i.e., non-NPDES WDRs) regulate discharges of privately or publicly treated domestic wastewater, and process and wash-down wastewater.

5.2.1 Porter-Cologne Water Quality Control Act

The *Porter-Cologne Water Quality Control Act* authorizes the SWRCB to adopt, review, and revise policies for all waters of the state (including both surface and groundwaters) and directs the RWQCB to develop regional Basin Plans. Section 13170 of the California Water Code also authorizes the SWRCB to adopt water quality control plans on its own initiative.

5.2.2 National Pollutant Discharge Elimination System (NPDES)

The NPDES permit system was established in the CWA to regulate point source discharges (a municipal or industrial discharge at a specific location or pipe) to surface waters of the U.S. Nonpoint source pollution often enters the receiving water in the form of overland flow, which is surface runoff that is not delivered by pipelines or other discrete conveyances. As defined in the federal regulations, nonpoint sources are generally exempt from federal NPDES permit program requirements. Two exceptions that are regulated under the NPDES program are: (1) diffuse source discharges caused by general construction activities of over one acre; and (2) stormwater discharges in municipal stormwater systems as a separate system in which runoff is carried through a developed conveyance system to specific discharge locations. These are apparent nonpoint source discharges, but because the diffuse source pollution is conveyed in a confined, discrete conveyance system that discharges at a specific location or locations to surface water, for regulatory purposes, they are considered point source dischargers.

For point source discharges, each NPDES permit contains limits on allowable concentrations and mass emissions of pollutants contained in the discharge. However, because municipal stormwater and construction stormwater sources are diffuse and vary with site characteristics, effluent limitations are not practical. Therefore, because the actual source is diffuse and spread out over a large area, instead of effluent limits, the reduction of pollutants in urban stormwater discharge is regulated through the use of structural and nonstructural best management practices (BMPs) to the maximum extent practicable (MEP).

For these diffuse source discharges, the NPDES program establishes a comprehensive stormwater quality program to manage urban stormwater and minimize pollution of the environment to the maximum extent practicable. The NPDES program consists of (1) characterizing receiving water quality, (2) identifying harmful constituents, (3) targeting potential sources of pollutants, and (4)





implementing a Comprehensive Stormwater Management Program. Each NPDES permit contains limits on allowable concentrations and mass emissions of pollutants contained in the discharge. Sections 401 and 402 of the CWA contain general requirements regarding NPDES permits, while Section 307 of the CWA describes the factors that the EPA must consider in setting effluent limits for priority pollutants. Typical BMPs used to manage runoff water quality during operational activities include controlling roadway and parking lot contaminants by installing oil and grease separators at storm drain inlets, cleaning parking lots on a regular basis, incorporating peak-flow \reduction and infiltration features (such as grass swales, infiltration trenches, and grass filter strips) into the landscaping, and implementing educational programs.

The RWQCB also requires that coverage under the General Construction NPDES Permit be obtained for construction grading activities for all projects greater than one acre in compliance with the state Construction General Permit (see below for more details). This permit requires implementation of nonpoint source control of stormwater pollution runoff through the application of BMPs meant to reduce the amount of pollutants entering streams and other water bodies.

The 1987 amendments to the CWA directed the federal EPA to implement the stormwater program in two phases. Phase I addressed discharges from large (population 250,000 or above) and medium (population 100,000 to 250,000) municipalities and certain industrial activities. Phase II (1999) addresses smaller discharges defined by EPA that are not included in Phase I, and construction activities that affect one to five acres. Under Phase II, each permittee must implement a Stormwater Management Program that addresses six minimum control measures associated with construction and operational activities, including (1) public education and outreach, (2) public participation/ involvement, (3) illicit discharge detection and elimination, (4) construction site stormwater runoff control for sites greater than 1 acre, (5) post-construction stormwater management in new development and redevelopment, and (6) pollution prevention/good housekeeping for municipal operations. These control measures will typically be addressed by developing BMPs.

5.2.2.1 Construction General Permit

The SWRCB permits all regulated construction activities under Order No. 98-08-DWQ (1999), which requires that, prior to beginning any construction activities, the permit applicant must obtain coverage under the Construction General Permit by preparing and submitting a Notice of Intent (NOI) and Stormwater Pollution Prevention Plan (SWPPP) to the SWRCB; and by implementing the SWPPP to mitigate potential construction effects on receiving water quality. In addition, 2003 revisions to the original Construction General Permit clarify that all construction activity, including small construction sites that are part of a larger common plan, must obtain coverage under this Construction General Permit. Because construction of the Crenshaw/LAX Transit Corridor Project would disturb more than one acre, it would be subject to these permit requirements. New revisions, which go into effect July 1, 2010, include stricter requirements for processing of this permit.

Required elements of a SWPPP include (1) a site description addressing the elements and characteristics specific to the site; (2) descriptions of BMPs for erosion and sediment controls; (3) BMPs for construction waste handling and disposal; (4) implementation of approved local plans; (5) proposed post-construction controls, including a description of local post-construction erosion and sediment control requirements; and (6) non-stormwater management. The SWPPP must include BMPs that address source control, and, if necessary, include BMPs that address specific pollutant control.





Examples of typical construction BMPs in completed SWPPPs include scheduling or limiting activities to certain times of year; prohibiting certain construction practices; implementing equipment maintenance schedules and procedures; implementing a monitoring program; implementing other management practices to prevent or reduce pollution, such as using temporary mulching, seeding, or other suitable stabilization measures to protect uncovered soils; storing materials and equipment to ensure that spills or leaks cannot enter the storm drain system or surface water; developing and implementing a spill prevention and cleanup plan; installing traps, filters, or other devices at drop inlets to prevent contaminants from entering storm drains; and using barriers, such as straw bales or plastic, to minimize the amount of uncontrolled runoff that could enter drains or surface water.

5.2.2.2 Industrial General Permit

The SWRCB and RWOCBs regulate all specified industrial activities under the Waste Discharge Requirements (WDRs) for Discharges of Stormwater Associated with Industrial Activities Excluding Construction Activities (Industrial General Permit, SWRCB Order No. 97-03-DQ, NPDES General Permit No. CAS000001). The Industrial General Permit requires the implementation of management measures that will achieve the performance standard of best available technology economically achievable (BAT) and best conventional pollutant control technology (BCT). The Industrial General Permit also requires the development of a SWPPP and a monitoring plan. Through the SWPPP, sources of pollutants are to be identified and the means to manage the sources to reduce stormwater pollution are described. Any Industrial General Permit noncompliance constitutes a violation of the CWA and the Porter-Cologne Water Quality Control Act and is grounds for (a) enforcement action, (b) Industrial General Permit termination, revocation and reissuance, or modification, or (c) denial of an Industrial General Permit renewal application. The proposed Crenshaw/LAX Transit Corridor Project is a Category 8 industrial discharger because of the associated maintenance facilities (Category 8 includes transportation facilities that conduct any type of vehicle maintenance such as fueling. cleaning, repairing, and others), and therefore, is subject to conditions of the Industrial General Permit.

5.3 Regional

5.3.1 Water Quality Control Plan for the Los Angeles Region (Basin Plan)

The Los Angeles RWQCB has prepared the Basin Plan in accordance with state and federal law. The Basin Plan sets forth the regulatory water quality standards for surface waters and groundwater within its region. The applicable water quality standards address both the designated beneficial use for each water body and the water quality objectives to meet designated beneficial uses. Where multiple designated beneficial uses exist, water quality standards must protect the most sensitive use. Water quality objectives are typically numeric, although narrative criteria, based upon biomonitoring methods, may be employed where numerical objectives cannot be established or where they are needed to supplement numerical objectives.

5.3.2 Total Maximum Daily Loads (TMDL)

In accordance with the federal CWA and state *Porter-Cologne Water Quality Control Act*, TMDLs have been developed and incorporated into the Basin Plan for some pollutants identified on the 303(d) list as causing contamination in project sites receiving waters. For other pollutants listed on the 303(d) list (e.g., Section 303[d] of the *Clean Water Act*), TMDLs are scheduled for





development, undergoing development, or in the process of review by the SWRCB.

5.3.3 NPDES Municipal Permit

The Crenshaw/LAX Transit Corridor Project area is located in Los Angeles County and would therefore be regulated under the Los Angeles County Municipal NPDES Stormwater Permit (Municipal Permit), NPDES Permit No. CAS004001 (Order No. 01-182) (LARWQCB2007). This permit is soon to change on July 1, 2010. Under the Municipal Permit, development would have to comply with the Los Angeles County Drainage Area Master Plan and the Standard Urban Stormwater Mitigation Plan (SUSMP).

5.3.4 Master Drainage Plan for the Los Angeles County

The Los Angeles County Department of Public Works (LACDPW) has developed Master Drainage Plans (MDPs) that address many individual watershed areas within the District's jurisdiction. The MDPs include proposed drainage facilities to protect upstream and downstream properties from serious flooding. Conceptual designs and Crenshaw/LAX Transit Corridor Project cost estimates are included in most plans. Some MDPs are the basis for Area Drainage Plans (ADPs), which are funding mechanisms established to pay for major drainage facilities within some MDPs. The ADPs impose fees that must be paid by land developers.

5.3.5 Standard Urban Stormwater Mitigation Plan (SUSMP)

The SUSMP requires that all projects that fall into one of nine categories incorporate appropriate SUSMP requirements into the Crenshaw/LAX Transit Corridor Project plans. All permittees (including the City of Inglewood, City of Los Angeles, and City of El Segundo) are required to approve plans as part of the development approval process before issuing a building or grading permit for projects in the nine mentioned categories. The proposed Crenshaw/LAX Transit Corridor Project would be subject to SUSMP requirements because it would include development of parking lots that would be 5,000 square feet or larger, or would have 25 or more parking spaces. Verification that the construction of all stormwater pollution control Best Management Practices (BMPs) and treatment control BMPs have been properly installed and will be properly maintained is required through a signed certification statement by the owner.

5.3.6 Discharge of Nonhazardous Contaminated Soils WDRs

Waste Discharge Requirements (WDRs) for Discharge of Non-Hazardous Contaminated Soils and Other Wastes in Los Angeles River and Santa Clara River Basins (Order No. 91-93) allows the disposal of up to 100,000 cubic yards of nonhazardous contaminated soils and other wastes for a maximum period of 90 days. This requirement applies to the proposed Crenshaw/LAX Transit Corridor Project because there may be contaminated soils near the alignment and because major portions of the alignment are along an old railroad right-of-way, where contaminated soils may exist. This WDR also requires that waste used as soil backfill shall not contain any substance in concentrations toxic to human, animal, plant, or aquatic life. The Construction General Permit allows for temporary stockpiling of nonhazardous, contaminated soils until they can be appropriately disposed of or reused, per permit conditions.





5.3.7 Construction Dewatering General Permit

Waste Discharge Requirements (WDRs) for Discharges of Groundwater from Construction Project Dewatering to Surface Waters In Coastal Watersheds of Los Angeles and Ventura Counties (R4-2003-0111, General NPDES Permit No. CAG99400); provides permitting for treated or untreated groundwater generated from permanent or temporary dewatering operations. This permit includes effluent and receiving water limitations for metals and other potential contaminants in discharges from dewatering operations to freshwater and saltwater, as well as monitoring and reporting requirements. This WDR would apply to the proposed Crenshaw/LAX Transit Corridor Project if there are construction dewatering activities. (Also see Section 4.3.3).

5.4 Local

5.4.1 City of Los Angeles Municipal Code

The City of Los Angeles incorporates requirements of the Municipal NPDES Permit into its Municipal Code. The proposed Crenshaw/LAX Transit Corridor Project would be considered a Planning Priority Project and Significant Development/Redevelopment project according to local guidelines because it would create more than 100,000 square feet of impervious industrial or commercial surfaces and/or 5,000 square feet (with at least 25 spaces) of surface parking. Municipal Code requirements are discussed in more detail under Section 7, Construction Impacts.

5.4.2 City of Inglewood Municipal Code

The City of Inglewood incorporates requirements of the Municipal NPDES Permit into its Municipal Code. The proposed Crenshaw/LAX Transit Corridor Project would be considered a Planning Priority Project and Significant Development/Redevelopment project according to local guidelines because it would create more than 100,000 square feet of impervious industrial or commercial surfaces and/or 5,000 square feet (with at least 25 spaces) of surface parking. Municipal Code requirements are discussed in more detail under Section 7, Construction Impacts.

5.4.3 City of El Segundo

The City of El Segundo incorporates requirements of the Municipal NPDES Permit into its Municipal Code. The proposed Crenshaw/LAX Transit Corridor Project would be considered a Planning Priority Project and Significant Development/Redevelopment project according to local guidelines because it would create more than 100,000 square feet of impervious industrial or commercial surfaces and/or 5,000 square feet (with at least 25 spaces) of surface parking. Municipal Code requirements are discussed in more detail under Section 7, Construction Impacts.





6 CONSTRUCTION IMPACTS

6.1 General Project Construction

Construction of the Baseline Alignment would include installation of two parallel LRT tracks, relocation of BNSF tracks, an overhead catenary wire system, traction power substations, ventilation structures, signaling and communication systems, a maintenance facility, possible parking lots, and five to seven stations. Along some segments of the alignment, construction would also include aerial track structures, below-grade structures (bored or cut/cover tunnels), platforms, street widening and/or existing track-bed widening. In at-grade segments, along Crenshaw Boulevard., LRT tracks would be installed in the existing roadway center median or a designated traffic lane and separated from street traffic by curbs, and, in some locations, fencing or other barriers. At-grade tracks within the BNSF ROW will generally conform to the existing track alignment with widening of the ROW as needed. Construction activities associated with the baseline alignment would include temporary land-disturbing activities such as demolition of existing structures, grading and excavation of retaining walls, filling and compaction paving, trenching for utility infrastructure installation/relocation, planting, irrigation, and painting.

6.2 Water Quality and Control During Construction

The delivery, handling, and storage of construction materials and wastes, as well as the use of construction equipment, would increase the potential of stormwater contamination. Potential pollutants include spills or leaks from heavy equipment and machinery resulting in oil and grease contamination; release of paints, solvents, cleaning agents, and metals; exposure and erosion of contaminated soils as a result of the demolition of structures and soil excavation; release of concrete compounds and paving materials; release of pesticides (hericides, insecticides, fungicides) associated with site preparation work; and larger debris such as trash and organic matter. These contaminants have varying effects, including toxicity to aquatic organisms, contamination of drinking supplies, bioaccumulation in larger species, and health hazards and aquatic ecosystem damage associated with introduction of bacteria, viruses, and other vector-borne contaminants.

Construction activities would also increase the potential for erosion and sedimentation in surface water bodies. Removal of existing structures, pavement, and vegetation could expose underlying soils to stormwater runoff or wind which could result in increased sediment release and transport in the Ballona Creek and Dominguez Channel watersheds. Erosion and sedimentation affect water quality by interfering with photosynthesis, oxygen exchange, and the respiration, growth, and reproduction of aquatic species. Other pollutants such as nutrients, trace metals, and hydrocarbons, can attach to sediment and be transported downstream, which can contribute to overall degradation of water quality.

Potential construction effects specific to individual segments of the proposed LRT alignment are discussed below.

6.2.1 Segment 1: Aviation/105 Station to Aviation/Century Station

In addition to the general construction water quality effects discussed above, construction activities along Segment 1 could result in water quality impacts at several specific locations. Widening of the BNSF ROW along the at-grade alignment of Segment 1 (from Century





Boulevard to the 105 Freeway), track road-bed improvements and relocation of the trapezoidal drainage channel on top of the proposed tunnel structure, would involve the excavation and placement of material around substantial existing drainage structures. This could release wastes and reconstruction materials into stormwater runoff. Also, pavement and structures and paving activities could release contaminants into surface water bodies.

Construction of the proposed aerial structures (from Century Boulevard to 102nd Street and south of 111th Street to 105 Freeway) and connection to Metro Green Line Aviation/LAX Station would require fill materials and excavation for aerial structure piles and supports. Excavated soil and fill materials for construction of aerial support structures could be susceptible to erosion and sediment transport.

Construction of the proposed below-grade structures (tunnel or "U" channel section from 102nd Street to 111th Street) and the surface, at-grade improvements to the BNSF ROW at the transitions to at-grade improvements mentioned above, would require hauling of excavation material. Excavated soil could be susceptible to erosion and sediment transport.

6.2.2 Segment 2: Aviation/Century Station to Florence/La Brea Station

In addition to the general construction water quality effects discussed above, construction activities along Segment 2 could result in water quality impacts at several specific locations. Installation of the LRT tracks, relocation of the BNSF track along at-grade portions of Segment 2 (from North Inglewood Avenue to North Oak Street, Hindry Avenue to Isis Avenue and north of Arbor Vitae Street to 98th Street) including road-bed widening along BNSF ROW, construction at road crossings, relocation of the City of Los Angeles Central Out-Fall Sewer, would involve minimal grading, which would not contribute to a substantial erosion and sediment transport hazard. However, as discussed above, removal of pavement and structures and paving activities could release contaminants into surface water bodies.

Construction of the proposed aerial structures (from LaBrea Avenue to North Inglewood Avenue, North Oak Street to Hindry Avenue and Isis Avenue to Century Boulevard) and aerial Aviation/Century Station would require fill materials and excavation for installation of pilings and supports for the overhead aerial structures. Excavated soil and fill materials for construction of aerial support structures could be susceptible to erosion and sediment transport.

6.2.3 Segment 3: Florence/La Brea Station to Florence/West Station

In addition to the general construction water quality effects discussed above, construction activities along Segment 3 could result in water quality impacts at several specific locations. Installation of the LRT tracks and relocation of the BNSF Track along at-grade portions of Segment 3 (from Long Street to east of Prairie Avenue), including road-bed widening along BNSF ROW, construction at road crossings, reconstruction of the East Redondo Boulevard alignment and construction of retaining walls adjacent to Centinela Park, would involve minimal grading, which would not contribute to a substantial erosion and sediment transport hazard. However, as discussed above, removal of pavement and structures and paving activities could release contaminants into surface water bodies.

Construction of the proposed below-grade structures (tunnel from Prairie Avenue to Locust Street) and the surface, at-grade improvements to the BNSF Row at the transitions to at-grade improvements mentioned above, would require handling of excavation material. Excavated soil could be susceptible to erosion and sediment transport.





Construction of the proposed aerial structure (from Locust Street to La Brea Avenue) and aerial Florence/La Brea Station would require fill materials and excavation for installation of pilings and supports for the overhead aerial structures. Excavated soil and fill materials for construction of aerial support structures could be susceptible to erosion and sediment transport.

6.2.4 Segment 3: Option 3 (Centinela)

The below-grade alignment being considered at the project intersection with Centinela Avenue will have little impact on water quality within the project alignment. Additional excavation would be required and would be subject to the same comments as previously discussed. Also, a major 39" existing storm drain will require relocation and further excavation.

6.2.5 Segment 4: Florence/West Station to Crenshaw/Slauson Station

In addition to the general construction water quality effects discussed above, construction activities along Segment 4 could result in water quality impacts at several specific locations. Installation of the LRT tracks and relocation of the BNSF tracks along at-grade portions of Segment 4 (from Brynhurst Avenue to Long Street [West Boulevard Station]) and Slauson to 59th Street, including road bed widening to BNSF ROW, road closure at west 71st Street and Victoria Street, construction at road crossings, and construction of the at-grade West Boulevard Station would involve minimal grading, which would not contribute to a substantial erosion and sediment transport hazard. However, as discussed above, removal of pavement and structures and paving activities could release contaminants into surface water bodies.

Construction of the proposed below-grade structures (tunnel from 59th Street to Brynhurst Avenue) and the surface, at-grade improvements to Crenshaw Boulevard and the BNSF ROW at the transitions to at-grade improvements mentioned above, would require hauling of excavation material.

6.2.6 Segment 5: Crenshaw/Slauson Station to Crenshaw/Martin Luther King Station

In addition to the general construction water quality effects discussed above, construction activities along Segment 5 could result in water quality impacts at several specific locations. Installation of the LRT tracks along at-grade portions of Segment 5 (from 48th Street to Slauson Avenue), including road improvements to Crenshaw Boulevard, construction at road crossings, construction of the (optional) below-grade Crenshaw/Vernon Station, and construction of the atgrade Slauson Station would involve minimal grading, which would not contribute to a substantial erosion and sediment transport hazard. However, as discussed above, removal of pavement and structures and paving activities could release contaminants into surface water bodies.

Construction of the proposed below-grade structures (tunnel from Martin Luther King Jr. Boulevard to 48th Street), below-grade Crenshaw/Vernon Station, and the surface, at-grade improvements to Crenshaw Boulevard, at the transition to at-grade improvements mentioned above, would require hauling of excavation material.

6.2.7 Segment 5: Option 5 (Vernon)

This option consists of the southerly extension of the below-grade alignment 1050 feet, moving the LRT guideway opening from just north of 48th Street to a new location just north of 50th





Street. Also, a below-grade station is added (Crenshaw/Vernon Station) on the East side of Crenshaw Boulevard (west side of S. Leimert Boulevard) between Brynhurst Avenue to the south and W. Vernon Avenue to the north. The below-grade alignment, presented with this option, will have little impact on water quality within the project alignment. Additional excavation would be required for the extended tunneling and station work. This construction would be subject to the same comments as previously discussed above, including comments regarding surface improvement for ingress/egress to the new station. A major advantage in extending the below grade alignment 1050 feet south is that the alignment will not interfere with the existing 39" stormdrain that is in conflict with the LRT alignment, allowing the storm drain system to remain in-place.

6.2.8 Segment 6: Crenshaw/Martin Luther King Station to Crenshaw/Exposition Station

In addition to the general construction water quality effects discussed above, construction activities along Segment 6 could result in water quality impacts at several specific locations. Installation of the LRT tracks along at-grade portions of Segment 6 (from Exposition Boulevard to south of Coliseum Place), construction at road crossings, construction of the at-grade Crenshaw/Exposition and below-grade Crenshaw/MLK Stations would involve minimal grading, which would not contribute to a substantial erosion and sediment transport hazard. However, as discussed above, removal of pavement and structures and paving activities could release contaminants into surface water bodies.

Construction of the proposed below-grade structures (tunnel or "U" channel section from south of Coliseum Place to Martin Luther King Jr. Boulevard) and the surface, at-grade improvements to Crenshaw Boulevard, mentioned above for the Crenshaw/MLK Station, would required handling of excavation material.

6.2.9 Segment 6: Option 6 (Exposition West and Exposition East)

The below-grade alignment being considered with these two options would have little impact on existing water quality within the project alignment. Excavation would be required and would be subject to the same comments as shown above for this segment. A major advantage of this option is that no existing drainage structures will require relocation/disturbance.

6.3 Regulatory Requirements (Construction)

All construction activities, including construction of the stations, road crossings, installation and realignment of utilities, installation of aerial structures, installation of tracks, and demolition activities would be subject to existing regulatory requirements, including BMPs for erosion and sediment control, and material and waste handling and management, as outlined below.

6.4 City Municipal Codes

City Municipal Codes regulate potential discharge of pollutants associated with construction activities and would require the Project Developer to implement construction BMPs prior to receiving a building or grading permit.

The City of Los Angeles, City of Inglewood and City of El Segundo Departments of Building and Safety also require that prior to issuing a grading permit or building permit, the applicant must incorporate into the plan documentation of BMPs necessary to control stormwater pollution from





sediments, erosion, and construction materials leaving the construction site in accordance with the provisions contained in the "Development Best Management Practices Handbook, Construction Activities". Furthermore, other sections include restrictions on construction and work during the rainy season (October 1 to April 15); describes the requirements for erosion control and drainage devices; and provides additional construction requirements and limitations to protect disturbed areas from erosion and sediment transport such as finished slope characteristics and requirement for flood and mudflow protection. The Public Works Departments may also require that the permittee prepare and submit plans for the installation of temporary erosion control devices not later than September 15, preceding the rainy season. The authority to inspect and enforce stormwater pollution control measure is provided for in City Codes.

6.5 Standard Urban Stormwater Mitigation Plan (SUSMP)

The proposed Crenshaw/LAX Transit Corridor Project would also be required to comply with the Los Angeles County SUSMP provisions. The SUSMP was developed for compliance with the Municipal NPDES Permit conditions. Provisions within the SUSMP include:

- Post-development peak storm water runoff discharge rates shall not exceed the estimated predevelopment rate for developments where the increased peak stormwater discharge rate will result in increased potential for downstream erosion. The proposed Crenshaw/LAX Transit Corridor Project would not be subject to this requirement because it discharges into storm drain culverts or lined channels.
- The development must be designed so as to minimize, to the maximum extent practicable, the introduction of pollutants of concern that may result in significant effects, generated from site runoff of directly connected impervious areas (DCIA), to the stormwater conveyance system as approved by the building official. This will require the incorporation of a BMP or combination of BMPs best suited to maximize the reduction of pollutant loadings in that runoff to the Maximum Extent Practicable and as listed in the referenced handbooks and guidelines. The proposed Crenshaw/LAX Transit Corridor Project would be subject to this SUSMP requirement.
- Crenshaw/LAX Transit Corridor Project plans must include BMPs consistent with local codes and ordinances and the SUSMP to decrease the potential of slopes and/or channels from eroding and impacting stormwater runoff. The proposed Crenshaw/LAX Transit Corridor Project would be subject to this SUSMP requirement.
- Where proposed Crenshaw/LAX Transit Corridor Project plans include outdoor areas for storage of materials that may contribute pollutants to the stormwater conveyance system, structural or treatment BMPs are required. The proposed project would be subject to this requirement wherever there are any outdoor materials storage areas.
- All trash container areas (including areas associated with the proposed Crenshaw/LAX
 Transit Corridor Project, such as stations) must meet the following Structural or Treatment
 Control BMP requirements:
 - Trash container areas must have drainage from adjoining roofs and pavement diverted around the areas.
 - Trash container areas must be screened or walled to prevent off-site transport of trash.
- As part of project review, if a project applicant has included or needs to include Structural or Treatment Control BMPs in project plans, the Permittee shall require that the applicant provide verification of maintenance provisions through such means as may be appropriate,





including, but not limited to legal agreements, covenants, CEQA mitigation requirements, and/or Conditional Use Permits. The proposed Crenshaw/LAX Transit Corridor Project would be subject to this SUSMP requirement.

- Design Standards for post-construction Structural BMPs. The proposed would be subject to this SUSMP requirement. To minimize the offsite transport of pollutants, the following design criteria are required:
 - Reduce impervious land coverage of parking areas
 - Infiltrate runoff before it reaches storm drain system
 - Treat runoff before it reaches storm drain system
- Limitations on Infiltration BMPs: a water table distance separation of 10 feet depth in California presumptively poses negligible risk for stormwater not associated with industrial activity or high vehicular traffic (25,000 or greater average daily traffic (ADT) on main roadway or 15,000 or more ADT on any intersecting roadway). The proposed Crenshaw/LAX Transit Corridor Project would be subject to this SUSMP requirement for any portions of the alignment within industrial areas and high traffic. The proposed Crenshaw/LAX Transit Corridor Project may be subject to this requirement in other areas if the water table is within 10 feet of the bottom of any potential infiltration BMP.
- Low Impact Development (LID) is a design strategy using naturalistic, on-site Best Management Practices to lessen the impacts of development on stormwater quality and quantity. LID practices are designed to protect surface and groundwater quality, maintain the integrity of the ecosystems, and preserve the physical integrity of receiving waters by controlling rainfall and stormwater runoff at or close to the source. As of Jan. 1, 2009, the County of Los Angeles instituted LID requirements for development occurring within unincorporated portions of the County. The goal of LID is to mimic the undeveloped site hydrology using site-design techniques that may store, infiltrate, evaporate or detain surface runoff. LID incorporates multifunctional Best Management Practices (BMPs) for stormwater detention and water quality improvement. The multifunctional site design elements include the use of bioretention/filtration landscape areas, disconnected hydrologic flowpaths, reduced impervious surfaces, functional landscaping to maintain pre-developed hydrologic functions such as infiltration, frequency and volume of discharges, and groundwater recharge.

The Cities of Los Angeles, Inglewood, and El Segundo include provisions within their Municipal Code requiring construction stormwater BMPs and compliance with the SUSMP and Municipal NPDES Permit conditions. Municipal Codes also provide for review of construction plans and construction inspection to ensure that the proposed Crenshaw/LAX Transit Corridor Project complies with permit conditions. Therefore, construction of the LRT Project should not violate waste discharge requirements.

6.6 Construction General Permit

The proposed project would cumulatively disturb more than one acre of land and would therefore require coverage under the Construction General Permit. Coverage under this permit would include preparation of a SWPPP, including typical construction BMPs. Typical construction BMPs for compliance with the NPDES Construction General Permit include, but are not limited to: scheduling or limiting activities to certain times of year; prohibiting certain construction practices; vehicle and equipment maintenance and operations; implementing a monitoring





program; erosion and sediment control BMPs; vehicle tracking BMPs; waste and materials management such as concrete wash out areas, stockpile management, and spill prevention and control; protected designated staging areas; and others. The Construction General Permit is considered protective of water quality, and the Cities' Municipal Code would ensure compliance with the Construction General Permit.

6.7 Construction Dewatering General Permit

If construction dewatering activities are necessary, due to flooding of trenches and excavations during the rainy season or locally high groundwater, METRO and their contractor(s) would have to comply with the Construction Dewatering General Permit. This General Permit includes effluent and receiving water limitations for metals and other potential contaminants in discharges from dewatering operations to freshwater and saltwater, as well as monitoring and reporting requirements that are considered protective of water quality. To be covered under this General Permit, a discharger must do the following:

- Demonstrate that pollutant concentrations in the discharge shall not cause violation of any applicable water quality objective for the receiving waters, including discharge prohibitions.
- Demonstrate that discharge shall not exceed the water quality criteria for toxic pollutants (Attachment B and Part E of this Order), and there shall be no reasonable potential to cause or contribute to an excursion above the criteria.
- Perform reasonable potential analysis using a representative sample of groundwater to be discharged. The sample shall be analyzed and the data compared to the water quality screening criteria for the constituents listed on Attachment A (of this Order) to determine the most appropriate permit.
- The discharge shall not cause acute nor chronic toxicity in receiving waters.
- If necessary, the discharge shall pass through a treatment system designed and operated to reduce the concentration of contaminants to meet the effluent limitations of this Order.
- The discharger shall be able to comply with the terms or provisions of this General Permit.

To be authorized to discharge under this General Permit, the discharger must submit an ROWD and an application for an NPDES permit. Upon receipt of the application, the Executive Officer would determine the applicability of this Order to such a discharge. If the discharge is eligible, the Executive Officer would notify the discharger that the discharge is authorized under the terms and conditions of this Order and prescribe an appropriate monitoring and reporting program. For new discharges, the discharge shall not commence until receipt of the Executive Officer's written determination of eligibility for coverage under this general permit or until an individual NPDES permit is issued by the Regional Board.

6.8 Groundwater Contamination

A construction health and safety plan will address proper handling procedures in the event that groundwater is unexpectedly encountered. In addition, if construction plans change and dewatering is required, groundwater sampling and analysis should be conducted prior to dewatering activities.

Contaminated groundwater, if identified, could be transported to an appropriate water treatment facility, or could be treated on-site prior to discharge to the municipal sewer system or storm drain under an approved NPDES permit.





As discussed briefly above, during construction of the LRT Project, temporary dewatering may be required if groundwater is encountered or if construction occurs during the wet-weather season and dewatering of excavations is required. The potential for construction dewatering would not likely be substantial because groundwater resources in the area are at least 60 feet below ground surface. However, perched (water trapped near the surface of the soil) groundwater may be encountered. Dewatering activities would require coverage under the Construction Dewatering General Permit and be temporary in nature.

The depth to groundwater is estimated to be between 180 feet below ground surface (bgs) to 60 feet bgs according to existing reports in the area. Therefore, the potential for construction pollutants from spills and leaks to migrate to groundwater is minimal. Additionally, construction activities would require coverage under the Construction General Permit and preparation of a SWPPP, including spill prevention and control BMPs, waste and materials management BMPs, and other BMPs designed to protect both surface and groundwater quality. Municipal Codes require compliance with these General Permits ensuring that General Permit provisions are met. Further, if unanticipated groundwater is encountered, it would be subject to the Construction Dewatering General Permit previously described in the Regulatory section.



7 PROJECT DRAINAGE IMPACTS

7.1 Pre-developed Drainage Areas

As previously noted, the Crenshaw/LAX Transit Corridor Project alignment lies close to the common boundary line between two major watershed areas, the Dominguez Channel and Ballona Creek Watersheds (*Figure 4-1* and *Figure 4-2*). This occurrence is a positive factor in regards to impacts to the lower portion of the Crenshaw/LAX Transit Corridor Project alignment from stormwater runoff and flooding. "Headwaters" are generally flowing away from the Crenshaw/LAX Transit Corridor Project area along the Florence Avenue/BNSF ROW portion of the alignment (City of Inglewood). Furthermore, the remaining two Crenshaw/LAX Transit Corridor Project areas, Aviation Boulevard/BNSF ROW and Crenshaw Boulevard, provide existing stormwater drainage facilities along their alignments with the capacity to isolate and protect the drainage demands of the Crenshaw/LAX Transit Corridor Project and adjacent developments.

7.1.1 Watershed Drainage Pattern

In the pre-developed condition, it is discovered that the tributary areas of the Ballona Creek and Dominguez Channel Watersheds generate approximately 1,049 cfs during a 25-yr, 24-hour storm event. This calculated flow rate is not localized in any particular areas but is spread out over a tributary area of approximately 798 acres. To better understand the watershed conditions along the proposed LRT alignment, a map was prepared utilizing Los Angeles County Department of Public Works drainage structure overlay-maps (*Figure 7-1*). The overlay-maps show the regions significant storm drain systems (in blue) superimposed on the local Thomas Guide Map pages. Approximate areas of those maps were combined to cover the Crenshaw/LAX Transit Corridor Project alignment area. The Crenshaw/LAX Transit Corridor Project location (LRT alignment), primary channels (Dominguez and Ballona), watershed boundary and the general direction of stormwater were then color-coded onto the base map.

A review of the map provides a regional overview of stormwater flow which impacts the project. Note that the majority of these hydrology subareas either flow away from the Crenshaw/LAX Transit Corridor Project alignment or are intercepted prior to making contact with the project alignment.

7.1.2 Project Contributory Areas

The northern and central half of the Crenshaw/LAX Transit Corridor Project area (Segments 4, 5, 6 and a portion of 2, or all of the Crenshaw Boulevard segments and a portion of the Florence Avenue segments) drain to Ballona Creek, which is located within the Ballona Creek watershed. The remaining half of the study areas (remaining half of Segment 4 and Segments 1, 3 and portion of 2, or a portion of Florence Boulevard and all of Aviation Boulevard Segments) drain to the Dominguez Channel which is located within the Dominguez watershed. *Figure 7-1 – Watershed Drainage Patterns* illustrates these areas.

The entire alignment of the Crenshaw/LAX Transit Corridor Project is protected from stormwater flow. Research of flooding with local jurisdictions revealed the only drainage complaints filed (City of Los Angeles) were in the area of Crenshaw Boulevard at Vernon Avenue. A field observation investigation of the entire proposed alignment showed no signs of erosion or potential flooding. Some areas of past standing water were observed due to flat existing grades



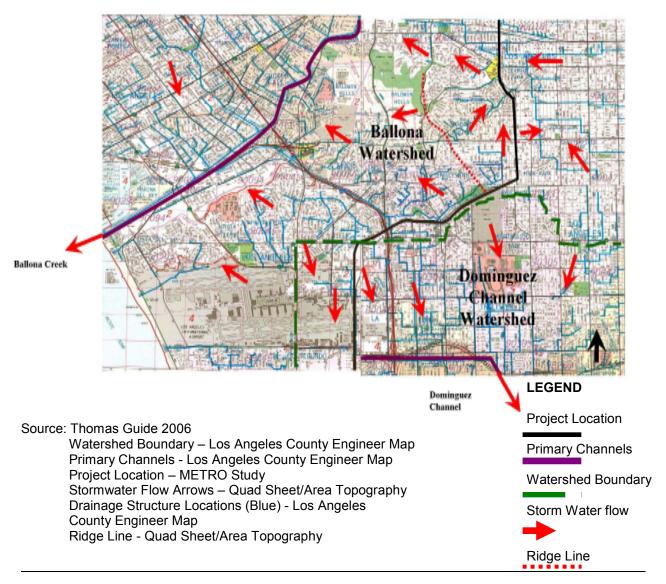


within the BNSF ROW. However, those portions of the alignment drainage can be easily corrected with local grading and the installation of localized drainage devices.

The existing protective conditions within all segments of the Crenshaw/LAX Transit Corridor Project alignment create localized hydrology drainage areas that are for the most part, completely within the Crenshaw Boulevard ROW and BNSF ROW general boundaries. However, concerns will be discussed in Section 9 of the Report, regarding the results of possible blockage of certain protective drainage systems within Segment 1.

Drainage runoff quantities for the pre-developed condition are calculated by using the TC (Time of Concentration) Calculator. The TC Calculator is a method utilized and referenced in the Los Angeles County Hydrology Manual in which parameters such as subarea basin size, percent impervious surface, average basin slope, basin runoff length, and precipitation (isohyets value) are utilized for large watersheds in order to calculate total runoff as well as runoff to individual catch basins. The TC Calculator is based on equations and empirical data outlined by the Modified Rational Method. Refer to **Appendix G** for all hydrologic runoff calculations/results as well as the Hydrology Exhibits.

Figure 7-1 - Watershed Drainage Patterns





The following is a segment by segment discussion of these localized contributory areas along the alignment. Detailed descriptions of the grade separations can be found in **Section 5.1.1.5**.

7.1.2.1 Segment 1: Aviation/105 Station to Aviation/Century Station

Segment 1 of the alignment corridor begins at the existing Aviation Boulevard/105 Freeway Station and continues northerly within the BNSF ROW to the proposed Aviation/Century Station. This segment, which requires some ROW to the west of the BNSF ROW, currently has protected drainage areas on both the east and west sides of the Crenshaw/LAX Transit Corridor Project alignment. Located on the east is Aviation Boulevard, and on the west is an open (partially closed) trapezoidal storm drain channel.

The current alignment of the Crenshaw/LAX Transit Corridor Project will require that the existing channel to the west be replaced with a newly designed system (underground instead of open channel). Surface water within the alignment can be delivered to this new main line improvement, including drainage originating from the aerial portion of the alignment.

In all, Segment 1 of the Crenshaw/LAX Transit Corridor has approximately 1000 linear feet of aerial alignment and 4200 linear feet of below-grade alignment. The below-grade portion is not subject to stormwater runoff or flooding, however some portions of the below-grade alignment shall be provided with localized area drains and sump pumps that will allow for water conveyance into the adjacent public storm drain systems. The aerial segment adjacent to the Aviation/Century station shall have localized area drains placed in-line with the support columns so that runoff generated on the raised track can be collected and transferred via vertical drains that lead to the existing ground or drainage facilities below. Drainage protection measures shall be installed at the entrances to both the aerial to below-grade transition as well as the below-grade to aerial transition.

Also of special interest in this segment is the crossing of the alignment with two major existing drainage structures at 111th Street; a 48" storm drain pipe and an 8' x 10' storm drain box culvert. This crossing occurs at the transition from below-grade to aerial alignments. Further consideration in the Preliminary Engineering Phase will be required to arrive at a feasible solution to this conflict.

7.1.2.2 Segment 2: Aviation/Century Station to Florence/La Brea Station

Segment 2 of the alignment corridor begins at the proposed Aviation/Century Station and continues northerly and easterly within the BNSF ROW to the proposed Florence/La Brea Avenue Station. The Segment 2 drainage area (fully within the BSNF ROW) is designed atgrade, slopes westerly and is protected by Florence Avenue to the south. Adjacent grades to the north fall away from the Crenshaw/LAX Transit Corridor Project alignment. This continues along the entire alignment, including at all intersecting streets. On the aerial portion of the alignment (as with other aerial project conditions) the downpipes at columns will be integrated with the projects subterranean drains and connected to existing storm drain systems.

The aerial segments at Manchester Avenue and Interstate Freeway 405 overpasses shall have localized area drains placed in-line with the support columns so that runoff generated on the raised track will be collected and transferred via vertical drains that outlet to the existing ground or drainage facilities below. Drainage protection measures shall be installed at the entrances to both the aerial to at-grade transition as well as the at-grade to aerial transition. In addition, the at-grade street crossing at Arbor Vitae Street (which flows away in both directions from the



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alignment) must accommodate stormwater flow from subterranean drains within the alignment. The graded drains along both sides of the alignment section will adequately accommodate the storm flows generated from each of the designated drainage subareas.

7.1.2.3 Segment 3: Florence/La Brea Station to Florence/West Station

Segment 3 of the alignment corridor begins at the proposed Florence/La Brea Station and continues northeasterly within the BNSF ROW to the proposed Florence/West Station. This segment alignment is almost entirely within the BNSF ROW, or in a below-grade alignment not within the existing ROW.

East of the Florence/La Brea Station, the adjacent land to the north of the alignment drains northerly and is not affected by offsite runoff. The at-grade portions of the alignment east of the La Brea underpass slopes westerly for the entire alignment length leading to the West Boulevard Station. Minimal amounts of off-site water enter the ROW from the south, but the majority of the alignment is protected by Florence Boulevard along the southern boundary.

There are only two streets crossing the alignment along the at-grade portion; Redondo Boulevard and Centinela Avenue. At Redondo Boulevard, water flows away from the Crenshaw/LAX Transit Corridor Project alignment in both directions. Redondo Boulevard is also located at a "high point" in the alignment grade so a culvert or drainage structure would not be required. Centinela Avenue drops off abruptly from the at-grade alignment as it drains north. A storm drain/catch basin system protects the alignment immediately to the south at the Florence Avenue intersection. Crenshaw/LAX Transit Corridor Project drainage flow lines coming from the east can utilize the storm drain pipe to drain the project at that point.

Special design consideration must be given to the at-grade alignment between Centinela Avenue and La Brea Avenue. In particular, the existing 39" storm drain facility on La Brea Avenue will need to be relocated so that it does not conflict with the proposed below-grade alignment at La Brea Avenue. In the pre-developed condition, the existing storm drain crosses Florence Avenue and captures runoff along the north half of Florence Avenue. This system is of significant importance since it will protect the BNSF rail crossing and also provide pick-up points for the grated drains flowing westerly along the proposed alignment section.

7.1.2.4 Segment 3: Option 3 (Centinela Avenue)

Option 3 calls for a below-grade alignment as the project approaches the intersection with Centinela Avenue. This design option requires a relocation and redesign of the existing 39" storm drain that traverses Florence Avenue and captures storm runoff from the northern half of the existing street section.

7.1.2.5 Segment 4: Crenshaw/West Station to Crenshaw/Slauson Station

Segment 4 of the alignment corridor begins at the proposed Florence/West Station and continues within BNSF ROW northeasterly along the Florence Avenue and turns toward a northerly bearing on Crenshaw Boulevard, ending at the Crenshaw/Slauson Station. This segment is broken into 2 portions; the first portion is from the Florence/West Station to the 67th Street/Crenshaw Boulevard intersection within the BNSF ROW, and the second portion is from the 67th Street intersection to the Crenshaw/Slauson Station, within the Crenshaw Boulevard ROW.





The first portion of the Segment 4 (along BNSF ROW) transitions from an at-grade design to U-section immediately northeast of the Florence/West Station. The U-section design continues for approximately 650 linear feet and then transitions to a cut and cover (tunnel) design. The alignment continues below-grade until it reaches the second portion designated in Crenshaw Boulevard ROW. In general, off-site surface drainage for the 600 linear feet at-grade portion of the segment does not enter the BNSF ROW. Street grades fall away either north or south at the West Boulevard intersection, thus preventing the affects of runoff. The remainder of the first portion of Segment 4 is located below ground and henceforth not affected by stormwater or flooding. Some portions of the below-grade tunnel alignment shall be provided with localized area drains and sump pumps that will allow for water conveyance into the adjacent public storm drain systems. In addition, drainage protection measures shall be installed at the tunnel portals.

The second portion of Segment 4 (along the Crenshaw Boulevard ROW) consists of a below-grade alignment from the intersection with 67th Street to immediately south of Slauson Station, adjacent to the intersection with 59th Street. The remaining 300 linear feet of Segment 4 is atgrade in order to meet the proposed at-grade Crenshaw/Slauson Station. The below-grade design is protected from the affects of stormwater and flooding. The brief at-grade portion of the alignment within Crenshaw Boulevard is protected on the west by an existing storm drain system. However, the east side of the alignment is protected because existing runoff is directed east, away from the Crenshaw Boulevard centerline and 59th Street.

At 59th Street, where the alignment transitions back to an at-grade design, added drainage protection will need to be considered. In addition, the existing drop inlet located at the Crenshaw Boulevard left turn lane and its associated 12" storm drain lateral will need to be relocated due to conflicts with the proposed alignment. There is also an additional conflict with an existing 24" storm drain facility at the 60th Street/Crenshaw Boulevard intersection. This relocation will require future evaluation during the Preliminary Engineering phase to determine a feasible solution.

7.1.2.6 Segment 5: Crenshaw/Slauson Station to Crenshaw/Martin Luther King Station

The Segment 5 alignment corridor begins at the Crenshaw/Slauson Station and continues north along the centerline of Crenshaw Boulevard and ends just south of Martin Luther King Jr. Boulevard at the proposed Crenshaw/MLK Station.

The first 4500 linear feet of Segment 5 is within Slauson Avenue/Crenshaw Boulevard ROW, with a center crown, associated curb and gutter, and various landscaping areas on both sides. Local storm drain systems on the west half of the street protect the westerly side of Crenshaw Boulevard from stormwater coming from the Baldwin Hills area, including the localized cross streets of 48th Street and Slauson Avenue. Although all of these systems are functioning adequately for their current purposes, an upgrade will be required at each of the six (6) intersecting streets along this portion of the alignment. The eastern half of Crenshaw Boulevard drains easterly away from the Crenshaw centerline alignment. This existing design prevents any runoff to the east from affecting the proposed at-grade Crenshaw alignment, including all encompassing street intersections.

Near the 48th Street/Crenshaw Boulevard intersection, the alignment consists of a 480 linear feet U-section design. Following this portion, the cut and cover tunnel runs for the remaining 3000 linear feet, ending at the proposed underground Crenshaw/MLK Station. There are a series of catch basins on 48th Street (west side of Crenshaw Boulevard) in addition to a super-elevated street cross-section on Crenshaw Boulevard that directs surface runoff towards the alignment





transition at this location. Special drainage protection and possible upgrading of the existing catch basin system is recommended for this area.

The below-grade portion of Segment 5 alignment shall only be impacted by stormwater at station access points for the proposed Crenshaw/MLK Station. Some portions of the below-grade tunnel alignment shall be provided with localized area drains and sump pumps that will allow for water conveyance into the adjacent public storm drain systems. In addition, drainage protection measures shall be installed at tunnel portals.

Although Segment 5 does <u>not</u> lie within either a 100-year or 500-year FEMA Flood Plain Area, the City of Los Angeles maps log several "drainage complaints" near the vicinity of the Vernon/Crenshaw intersection. The project alignment is below-grade in this area and therefore shall not be affected by any of the reported drainage issues.

7.1.2.7 Segment 5: Design Option 5 (Vernon)

Option 5 involves moving the transition point for the U-section alignment from just north of 48th Street to just north of 50th Street. By relocating this transition approximately 850 linear feet further south, the aforementioned existing storm drain facilities (21"/39" storm drain) no longer needs to be relocated at the Crenshaw Boulevard/Leimert Boulevard intersection. Other drainage will be affected same as the baseline alignment.

7.1.2.8 Segment 6: Crenshaw/Martin Luther King Station to Crenshaw/Exposition Station

Segment 6 begins at the proposed underground Crenshaw/MLK Station and continues north along the Crenshaw Boulevard before ending at the proposed Crenshaw/Exposition Station. This particular segment begins as a below-grade tunnel alignment for the first 1600 linear feet and then transitions to an at-grade design in the vicinity of the 39th Street/Crenshaw Boulevard intersection. Segment 6 is entirely within Crenshaw Boulevard ROW, which is a fully paved street with a center crown and curb and gutter on either side.

The first 1600 linear feet of Segment 6 is below-grade and therefore not exposed to surface water runoff conditions. The only possible issues of flooding that could take place would be at the access openings to the Crenshaw/MLK Station. Some portions of the below-grade tunnel alignment shall be provided with localized area drains and sump pumps that will allow for water conveyance into the adjacent public storm drain systems. In addition, drainage protection measures shall be installed at the tunnel portal.

The remainder of the Segment 6 (approximately 2100 linear feet) is proposed as an at-grade design. Existing underground storm drain systems are present for the full length of this segment. This portion of the alignment is protected from storm runoff by implementation of a street crown, channelization by the adjacent curb and gutter, and conveyance into the existing underground storm drain systems.

As noted earlier in this report, Segment 6 is the only portion of the Crenshaw/LAX Transit Corridor Project alignment that is shown in a 500-year floodplain on FEMA Maps (**Appendix G**). No flooding of the streets was reported in this area. However, three (3) major storm drain systems cross the at-grade portion of the alignment; a 63" RCP at Rodeo Road, a 22'x14' box culvert at Coliseum Street and a 36" RCP at 39th Street. In addition, major storm drain systems cross the below-grade alignment at Martin Luther King Jr. Boulevard—an 11'x 11' double box culvert, a 9'x7' box culvert, and a 60"storm drain. The existing street grade along Crenshaw Boulevard continues in a northerly direction from the Martin Luther King Jr. Boulevard and Crenshaw Boulevard intersection. The Martin Luther King Jr. Boulevard intersection is at a 118'





AMSL elevation (per Crenshaw/LAX Transit Corridor Project topography) and descends to an elevation of 115' AMSL over a span of approximately 700 linear feet. From there, the grade descends in the northerly direction along Crenshaw Boulevard only an additional 2 to 3 feet over a distance of 3300 linear feet, to an approximate elevation of 112' AMSL at Exposition Boulevard. In other words, this is a very flat area, hence being designated as a flood plain. These above mentioned storm drain conduits transport all of the stormwater from the southeast quadrant of the Ballona Watershed to Ballona Creek. Partial or full failure of any of these systems, either up or down stream of the project alignment, would cause flooding of the at-grade portion of the alignment.

7.1.2.9 Segment 6: Design Option 6 (Exposition West and Exposition East)

Option 6 is designed entirely below-grade and will not be impacted or have an impact on existing surface drainage conditions.

7.2 Existing Storm Drain Facilities

Existing drainage systems along the entire length of the alignment have been identified in contract drawing sheets U-001 thru U-045, "Composite Existing Utilities". For purposes of this report, these utility sheets have been reproduced at a smaller scale, highlighting only the existing drainage systems and depicting the proposed drainage systems. These exhibits are included in **Appendix C** and **Appendix D**.

7.3 Post-developed Drainage Areas

As previously noted in the pre-developed condition, the Crenshaw/LAX Transit Corridor Project alignment lies close to the common boundary line between two major watershed areas, the Dominguez Channel and Ballona Creek Watersheds (*Figure 4-1* and *Figure 4-2*). Hence, impacts from storm runoff and flooding are minimized for the lower post-developed segment of the Crenshaw/LAX Transit Corridor Project alignment. In general, storm water is flowing away from the Crenshaw/LAX Transit Corridor Project area along the Florence Avenue/BNSF ROW portion of the alignment (City of Inglewood). Furthermore, the remaining two Crenshaw/LAX Transit Corridor Project areas, Aviation Boulevard/BNSF ROW and Crenshaw Boulevard, have existing drainage facilities along their alignments with the capacity to isolate and protect against major storm runoff generated from the adjacent developments. Additional catch basin drop inlet structures shall be designed and strategically placed in order to protect the Crenshaw/LAX Transit Corridor Project from future storm flows. In addition, facilities may need to be upgraded and/or relocated to account for possible conflicts with proposed Crenshaw/LAX Transit Corridor below-ground alignments.

7.3.1 Watershed Drainage Pattern

The post-developed watershed is very similar to that of the existing condition. In the proposed condition, the peak flow rate increases from 1,049 cfs to approximately 1,056 cfs. This slight increase in total runoff is due to minimal changes in the time of concentration (TC) for several of the individual Subareas as well as changes in some of the Subarea basin sizes, due in part to the proposed placement of the Crenshaw/LAX Transit Corridor future alignment. The increase of 7 cfs is considered to be miniscule (0.67%) when taking into account the entire Ballona Creek & Dominguez Channel Watersheds. In addition, the 7 cfs increase is configured by summing up the total calculated runoff numbers from all of the project basin subareas. This is a conservative





analysis since it does not take into consideration lag times or time of concentration for the entire project area and/or watersheds.

Note that the post-developed condition does not include any redirection of surface runoff or changes in the percentage of impervious areas. The post-developed condition shall not have any negative impacts on any of the adjacent properties and/or residents.

None of the design alternatives or options will result in delineation from the drainage basins defined for the baseline alignment. The existing and proposed crowns in the encompassing streets divide runoff on respective sides (north/south or east/west) of each and every street alignment, regardless of alignment alternative or option.

Refer to Figure 7-1 - Watershed Drainage Pattern for the watershed conditions, which will not be altered by the Project. Note that the majority of these hydrology subareas either flow away from the Crenshaw/LAX Transit Corridor Project alignment or are intercepted prior to making contact with the project alignment.

Drainage runoff quantities for the post-developed condition are calculated by using the TC (Time of Concentration) Calculator. The TC Calculator is a method utilized and referenced in the Los Angeles County Hydrology Manual in which parameters such as subarea basin size, percent impervious surface, average basin slope, basin runoff length, and precipitation (isohyets value) are utilized for large watersheds in order to calculate total runoff as well as runoff to individual catch basins. The TC Calculator is based on equations and empirical data outlined by the Modified Rational Method. Refer to **Appendix G** for all hydrologic runoff calculations/results as well as the Hydrology Exhibits.

7.3.2 Project Contributory Areas

The northern and central half of the Crenshaw/LAX Transit Corridor Project area (Segments 5, 6, 7 and a portion of 2 and 4, or all of the Crenshaw Boulevard Segments and a portion of the Florence Avenue Segments) drain to Ballona Creek, which is located within the Ballona Creek watershed. The remaining half of the study area (remaining part of Segment 4 and Segments 1, 3 and portion of 2; [portion of Florence Boulevard and all of Aviation Boulevard Segments]) drain to the Dominguez Channel which is located within the Dominguez watershed.

The areas along the Project alignment does not exhibit any existing drainage problems. Research of flooding with local jurisdictions revealed one drainage complaint filed with the City of Los Angeles. It stated that the area near Crenshaw Boulevard and Vernon Avenue had potential issues. However, a field investigation of the entire proposed alignment, including this area of concern, showed no signs of erosion or potential flooding. In the post-developed condition, some areas of past standing water (due to flat existing grades) shall be corrected within the BNSF ROW. Runoff mitigation in these portions of the alignment will be corrected with some minor grading and installation of numerous drainage devices.

The post-developed condition within all segments of the Crenshaw/LAX Transit Corridor Project alignment creates localized hydrology drainage subareas that are for the most part, completely within the Crenshaw Boulevard ROW and BNSF ROW general boundaries. This does not deter from what is defined and observed in the existing pre-developed condition.





8 CONCLUSIONS

8.1 Proposed Storm Drain Facilities/Measures

8.1.1 Segment 1

- For segment 1 the primary recommendation is the relocation of the trapezoidal channel/storm drain to the west of the Crenshaw/LAX Transit Corridor Project ROW. This storm drain will be required to be underground for the full length of the Los Angeles Airport frontage between Imperial Highway, on the South, and Century Boulevard on the North. Existing storm drain systems and collection points entering the channel from the west will require that appropriate connections be designed to join the mainline storm drain pipe. The Northerly portion of the system (111th Street to Century Boulevard) flows to the South. The Southerly portion of the system (Imperial Highway to 111th Street) flows to the North. The two portions converge at 111th Street and then drain east through an 8' x 10" Box Culvert storm drain. This crossing is in conflict with the transition of the alignment from aerial to below grade. In addition, a 48" storm drain exists independently to the north of the box culvert and is also in conflict with the vertical Crenshaw/LAX Transit Corridor Project alignment. Relocation of either of these two drainage structures is considered impractical. Further evaluation is required in the Preliminary Engineering Phase to determine a solution.
- This segment will also include graded flow lines, along the surface of the alignment, with pick-up points which discharge into the relocated main channel/storm drain.
- A temporary construction easement is needed along the westerly side of the alignment between Imperial Highway and Century Boulevard for the relocation of the storm drain. The ROW width ranges from 23' to 30' for most of the length with a variable width at the intersection with Century Boulevard.
- The aerial segment adjacent to the Aviation/Century Station shall have localized area drains
 placed in-line with the support columns so that runoff generated on the raised track will be
 collected and transferred via vertical drains to ground level or into drainage facilities below.
 Drainage protection measures shall be installed at the transitions between aerial and belowgrade segments.

8.1.2 Segment 2 & 2A

- Flow line grading along both sides of the entire alignment for segment 2 and 2A is recommended to control drainage within the at-grade ROW. Culverts will be required where storm drain systems do not currently exist at street grade crossings (Ivy Avenue, Eucalyptus Avenue, Railroad Place and Oak Street).
- It is recommended to install catch basins and associated storm drain laterals at the following intersecting street crossings: Hyde Park Boulevard, Hindry Avenue, Aviation/Manchester, Arbor Vitae/Aviation and Century/Aviation. These proposed structures will connect to the existing storm drain system within each respective location. These systems will control the remainder of the surface runoff within these segments.
- The aerial segments at Manchester Avenue and Interstate Freeway 405 overpasses shall have localized area drains placed in-line with the support columns so that runoff generated on the raised track will be collected and transferred via vertical drains to ground level or into





drainage facilities below. Drainage protection measures shall be installed at the transitions between aerial and at-grade segments.

• A northerly storm drain lateral extension will be necessary for the existing 108" storm drain facility located just north of Century Boulevard.

8.1.3 **Segment 3**

- Normal flow line grading along both sides of entire length of the at-grade alignment will be required for control of drainage within the Crenshaw/LAX Transit Corridor Project ROW. This will be typical for all segments within the existing BNSF ROW.
- Drainage catch basins and laterals are recommended to be constructed on the easterly sides of Centinela Avenue and La Brea Avenue within the alignment ROW. These will serve to pick up the surface run-off being controlled by the graded flow lines. The catch basin will be connected to the existing storm drain systems at these two locations.
- At the beginning and end of aerial alignment sections, the central track drainage swales require drainage devices to collect and divert drainage from the swales or the bridge away from the area. This applies to all segments.
- Horizontal relocation is recommended for the existing 39" storm drain adjacent to the proposed below-grade alignment at the La Brea Avenue/Florence Avenue intersection. This can be accomplished by redirecting the storm drain at the La Brea Avenue/Florence Avenue intersection to drain west and cross the proposed at-grade alignment near Station 196+00. This design shall also avoid conflict with the proposed Florence/La Brea Station and reconnect to the existing 39" storm drain facility further downstream along La Brea Avenue.

8.1.4 Segment 3: Option 3 (Centinela)

Vertical relocation is recommended for the existing 39" storm drain over the proposed below-grade alignment adjacent to the Centinela Avenue/Florence Avenue intersection. This can be accomplished by increasing the new pipe's grade northerly in order to allow crossing over the below-grade portion of the alignment. The new pipe alignment would then continue north at a relatively flat grade and reconnect to the existing 39" storm drain facility further downstream along Centinela Avenue.

8.1.5 Segment 4

- The relatively flat at-grade portions of Segment 4 from Brynhurst Avenue to the West Boulevard Station will need graded flow lines to adequately provide flood protection. Small drainage culverts will be required at West Boulevard and Brynhurst Avenue to transport water easterly. The proposed structure shall connect to the nearest existing underlying storm drain system.
- Surface drainage, directed easterly within the alignment area, will require a connection to the existing storm drain at the intersection of 67th Street and Crenshaw Boulevard.
- Victoria Avenue (to be closed) may need a drainage device installed on the north side of the Crenshaw/LAX Transit Corridor Project alignment. The proposed structure shall be connected to the nearest existing underlying storm drain system.
- The existing drop inlet structure located in the left turn lane and associated storm drain lateral at the Crenshaw Boulevard/59th Street intersection will need to be relocated in order to





account for the proposed at-grade alignment immediately south of the Crenshaw/Slauson Station.

• Additional drainage protection is recommended at 59th Street where the alignment transitions from below-grade to at-grade. Refer to **Appendix D** for details.

8.1.6 **Segment 5**

- It is recommended that the project provide raised curbs (8" minimum curb face) along atgrade portions of this Segment 5 on both the east and west sides of the proposed alignment.
- Install drop inlet catch basins structures across the project alignment north of the 48th Street/Crenshaw Boulevard intersection and at the transition entrance to the below-grade alignment located approximately 300 linear feet north of the 48th Street intersection. Connect these proposed conduits to the existing 36"/39" storm drain system located within the west half of Crenshaw Boulevard.
- The proposed alignment is in conflict with an existing 39" storm drain that runs north along Crenshaw Boulevard and diverges onto Leimert Boulevard at the intersection of Leimert Boulevard and Crenshaw Boulevard. Here, the proposed project alignment crosses the storm drain and continues northwesterly along Crenshaw Boulevard. It is recommended that the conflicting section of pipe be increased to a 45" storm drain and realigned to run adjacent to the proposed alignment. The storm drain will eventually turn east, traversing beneath an existing parking lot (located on the east side of Crenshaw Boulevard) once enough clearance has been provided to cross the proposed below-grade alignment. The storm drain conduit will connect to the existing 45" storm drain facility that continues north along Leimert Boulevard.
- Adjacent to the Crenshaw/Leimert intersection, an existing 21" storm drain lateral is in conflict with the proposed below-grade Crenshaw/LAX Transit Corridor Project alignment. This lateral currently connects to the aforementioned existing 39" storm drain facility that continues north onto Leimert Boulevard. It is proposed that this 21" storm drain lateral connect to the proposed 39" realigned pipe that is to continue along Crenshaw Boulevard.

8.1.7 Segment 5: Option 5 (Vernon)

See comments for Segment 5 (above). Added drainage protection is proposed at the 50th Street intersection rather than 48th Street intersection.

8.1.8 Segment 6

- Segment 6 has been identified as a 500 year "Flood Hazard Zone". Catch basin and lateral pipe systems are required at track drainage swale to remove drainage from the proposed alignment subareas. Connect these proposed structures to the existing underlying storm drain system.
- The vertical alignment for the Crenshaw/LAX Transit Corridor Project is in conflict with the existing 36" storm drain that crosses the alignment at 39th Street. We recommend construction of a "horseshoe" of the 36" pipe to the south, where there would be sufficient clearance to pass over the alignment, and return north to reconnect on the opposite side of the proposed alignment to the existing pipe.





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- Where the alignment transitions from below-grade to at-grade, 130 feet south of Coliseum Place, catch basins or other flood protection devices will need to be incorporated into the drainage design.
- It is recommended that the project provide raised curbs (8" minimum curb face) along atgrade portions of Segment 6 on both the east and west sides of the proposed alignment.
- Install drop inlet catch basin structures across the alignment width at the below-grade to atgrade transition entrance, as well as on the north and south sides of the intersection crossings at Coliseum Street, Rodeo Place, and Rodeo Road. Connect these proposed structures to each of their respective existing localized storm drain systems.

8.1.9 Segment 6: Option 6 (Exposition West and Exposition East)

The hydrology study shows that the post-developed watershed associated with Options 6 is very similar to that of the existing condition. Therefore, there are no drainage impacts or modifications.





APPENDIX H TECHNICAL ANALYSES FOR MAINTENANCE FACILITY SITE



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TECHNICAL ADDENDUM

Date: November 23, 2010

To: Mike Sullivan, Terry A. Hayes Associates

cc: Dennis Henderson, Parsons Brinckerhoff

From: John Stutsman and Anjum Bawa

Subject: Traffic Impact Assessment of Additional Candidate Sites

Crenshaw/LAX Transit Corridor LRT Maintenance Facility

SM10-2179.03

This technical addendum summarizes the results of a trip generation assessment and level of service (LOS) analysis conducted by Fehr & Peers for two additional sites selected by Los Angeles County Metropolitan Transportation Authority (Metro) as potential candidate sites for a light rail transit (LRT) maintenance facility a to serve the Crenshaw/LAX Transit Corridor. These two sites are in addition to the four candidate sites which analyzed in our July 1, 2010 technical memorandum.

PROJECT DESCRIPTION

As described in the July 1, 2010 technical memorandum, the project will involve the construction of a maintenance facility along the proposed Crenshaw/LAX LRT Line at one of the two candidate sites. Both candidate maintenance facility sites currently contain property that would need to be acquired and/or facilities that may need to be relocated should that site be chosen. The proposed maintenance facility would be used to store, maintain, make minor repairs, and clean light rail vehicles. The site would include an administrative office building; maintenance building for daily servicing, preventive maintenance, repairs, and parts storage; a paint and body shop; and cleaning facilities.

The site will be designed to handle a 60-vehicle fleet. Per information provided by Metro, approximately 75 to 80 employees would be present on-site during a typical shift with approximately 40% overlap of staff on shift changes. This overlap of shifts would occur only for approximately 30 to 45 minutes during shift changes when employees starting their shift arrive at the site and employees ending their shift leave the site. Some visitor traffic in the form of contract employees and vendors including approximately one delivery truck a day and a garbage removal truck two or three times during a typical week are expected. The proposed maintenance facility is expected to be built and operational by Year 2018.

PROPOSED CANDIDATE SITES

Both candidate sites are located near the I-405 Freeway between Rosecrans Avenue and Manhattan Beach Boulevard. Following is a brief description of the two candidate sites with respect to their specific location and existing operations:

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- Site #17 Marine/Redondo Beach Alternative This site is located at 4000 Redondo Beach Avenue along the east side of Redondo Beach Avenue between Marine Avenue and Manhattan Beach Boulevard. The site is currently used by DHL Global Forwarding Center (courier facility).
- **Division 22 Northern Expansion Alternative** This site is located at 14680 Aviation Boulevard, east of 33rd Street and just south of Rosecrans Avenue. The site is currently used by US Storage Hawthorne as a mini storage/warehouse facility.

Figure 1 shows the locations of the two candidate sites and the surrounding roadway network.

Fehr & Peers conducted a review of major intersections in close proximity to the two candidate sites. The following intersections were analyzed for each of the two candidate sites:

Site #17 – Marine/Redondo Beach Alternative

- 1. Aviation Boulevard and Marine Avenue
- 2. Redondo Beach Avenue and Marine Avenue
- 3. Inglewood Avenue and Marine Avenue
- 4. Inglewood Avenue and I-405 Northbound Ramps
- 5. Inglewood Avenue and I-405 Southbound Ramps
- 6. Redondo Beach Avenue and Manhattan Beach Boulevard
- 7. Aviation Boulevard and Manhattan Beach Boulevard

Division 22 Northern Expansion Alternative

- 1. Aviation Boulevard and Marine Avenue
- 2. Redondo Beach Avenue and Marine Avenue
- 3. Rosecrans Avenue and Aviation Boulevard
- 4. Rosecrans Avenue and I-405 Northbound Ramps

EXISTING TRAFFIC CONDITIONS

Intersection vehicular turning movement count data for weekday morning and evening peak periods was obtained from previous traffic studies prepared for projects in the vicinity of the proposed sites and collected in years 2007 and 2008. A comparative analysis of historic traffic count data at key intersections indicated negligible to negative growth in traffic within the sub-region. Therefore, no growth adjustment was applied to traffic counts from Year 2007/2008 to estimate Year 2010 traffic volumes.

A summary of traffic volumes at the aforementioned intersections is provided in Attachment A. Table 1 provides a summary of existing levels of service (LOS) for these above study intersections. As shown in Table 1, out of the seven intersection analyzed for Site #17 – Marine/Redondo Beach Alternative, five intersections currently operate at a level of service (LOS) D or better during both peak hours while the two intersections of Redondo Beach Avenue and Aviation Boulevard along Manhattan Beach Boulevard currently operate at a LOS E or F during one of the two analyzed peak hours.

Out of the four intersections analyzed under Division 22 Northern Expansion Alternative site, only the intersection of Rosecrans Avenue and Aviation Boulevard currently operates at a LOS F during the evening peak hour. All other intersection currently operate at a LOS D or better during both analyzed peak hours.

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FUTURE TRAFFIC CONDITIONS

To evaluate the potential impacts of the proposed project on the surrounding street system, it was necessary to develop estimates of future traffic conditions in the area both without and with the proposed project's traffic. First, estimates of traffic growth were developed for the study area to forecast future conditions without the project. These forecasts included traffic increases due to general regional ambient traffic growth. These projected traffic volumes, identified herein as the cumulative base conditions, represent the future study year conditions without the proposed project. The traffic generated by the proposed project was then estimated and assigned to the surrounding street system. The project traffic was added to the cumulative base to form the cumulative plus project traffic conditions, which were analyzed to determine the incremental traffic impacts attributable to the project itself.

Future (Year 2018) Base without Project Traffic Projections

The traffic volume growth reflected in the development of the future base without project conditions takes into account the expected growth in traffic over existing conditions due to the effect of overall growth and development outside the study area. Based on historic trends and projected growth in the region over the next eight years, it was established that an ambient growth rate factor of 1% per year should be applied to adjust the existing base year traffic volumes to reflect the effects of regional growth and development by the Year 2018. An adjustment of 8% was applied to existing weekday peak hour traffic counts to reflect the effect of ambient growth by the Year 2018. The resulting future (Year 2018) base traffic volumes are provided in Attachment A.

Future (Year 2018) plus Project Traffic Projections

The traffic projections for the proposed project were developed using three steps: estimating the trip generation of the project, determining trip distribution, and assigning the project traffic to the roadway system.

Project Trip Generation

As described in our July 1, 2010 technical memorandum, trip generation estimates for the project were prepared using empirical data collected at an existing LRT maintenance facility, MTA Division 22 serving the Metro Green Line at 14724 Aviation Boulevard in Hawthorne. Classified driveway traffic data was collected at this maintenance facility using a video camera for a 24-hour period. Data related to number of passenger cars and trucks going in and out of the site was collected on a typical weekday. This empirical data can be found in Attachment C. A passenger car equivalent (PCE) factor of 2.0 was used to convert truck trips in the PCEs for the purpose of trip generation estimates. The truck PCE trips were combined with the passenger car vehicles trips to arrive at total inbound/outbound daily trips. Figure 2 shows trips generated by MTA Division 22 by each hour of the day.

Using the above empirical data, weekday morning and evening peak hour trip generation of the survey facility was determined. As shown in Table 2, Division 22 currently generates a total of 13 trips in the morning peak hour (7 inbound/6 outbound) and 11 trips during the evening peak hours (6 inbound/5 outbound).

MTA Division 22 serves a total of 39 Light Rail Vehicles (LRVs). The proposed project is expected to serve a total of 60 LRVs. Trip generation for the proposed facility was estimated by applying to the MTA Division 22 trips a factor proportional to the size of the facility in terms of number of LRVs served. Thus, a

Mr. Mike Sullivan Terry A. Hayes Associates November 23, 2010 Page 4



factor of 1.54 was applied to Division 22 traffic count data including both passenger cars and trucks to calculate trip generation for the proposed Crenshaw/LAX Transit Corridor LRT maintenance facility.

After applying a PCE factor of 2.0 to convert truck trips into PCEs, as shown in Table 3, the proposed project is estimated to generate a total of 18 trips during the morning peak hour (8 inbound/10 outbound) and 20 trips during the evening peak hours (11 inbound/9 outbound) Figure 3 shows a chart of the proposed project trip projections.

Consistent with the approach in our July 1, 2010 technical memorandum, it is assumed that the existing uses on the analyzed sites will most likely relocate within the same sub-region. Therefore, to be conservative, no trip credit was taken for existing uses as part of project trip generation estimates.

Project Traffic Distribution

The geographic distribution of trips generated by the project was dependant on location of residential areas from which the project will draw home-work trips; location of each of the four candidate sites with respect to access to regional freeway and roadway network; and level of accessibility of routes to and from the proposed candidate sites. On a sub-regional level, approximately 70% of the trips were estimated to use the freeways and 30% on the major roadways adjacent to the four analyzed sites.

Project Traffic Assignment

The traffic to be generated by the proposed project at each of the analyzed sites was assigned to the street network using the distribution described above. The proposed project traffic volumes were added to future (Year 2018) base traffic projections, resulting in a future (Year 2018) plus project morning and evening peak hour traffic volumes. Project Only and Future plus Project traffic volumes are presented in Attachment A.

INTERSECTION TRAFFIC IMPACT ANALYSIS

The traffic impact analysis compares the projected LOS at each study intersection under the cumulative base and cumulative plus project conditions to estimate the incremental increase in the V/C ratio caused by the proposed project. This provides the information needed to assess the potential impact of the project using significant criteria established by LADOT.

Criteria for Determination of Significant Traffic Impact

Table 4 presents a summary of established threshold criteria used to determine whether the proposed project would have a significant traffic impact at a study intersection. The application of the criteria was dependant on the city with jurisdiction over the study intersection. Some study intersections had shared jurisdiction of more than one city.

PROJECT IMPACTS AND CONCLUSION

Table 5 shows, using the criteria for determination of significant impacts, the proposed project would not create significant traffic impacts at any of the study intersections during the morning or the evening peak hours under the two additional site alternatives studied. Therefore, no mitigation measures would be required.

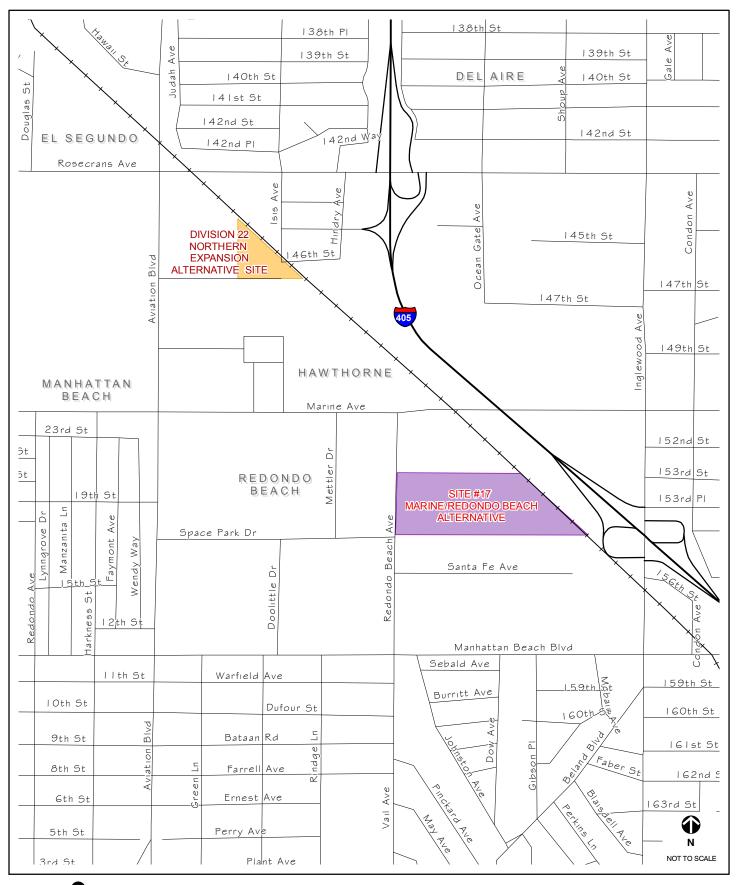
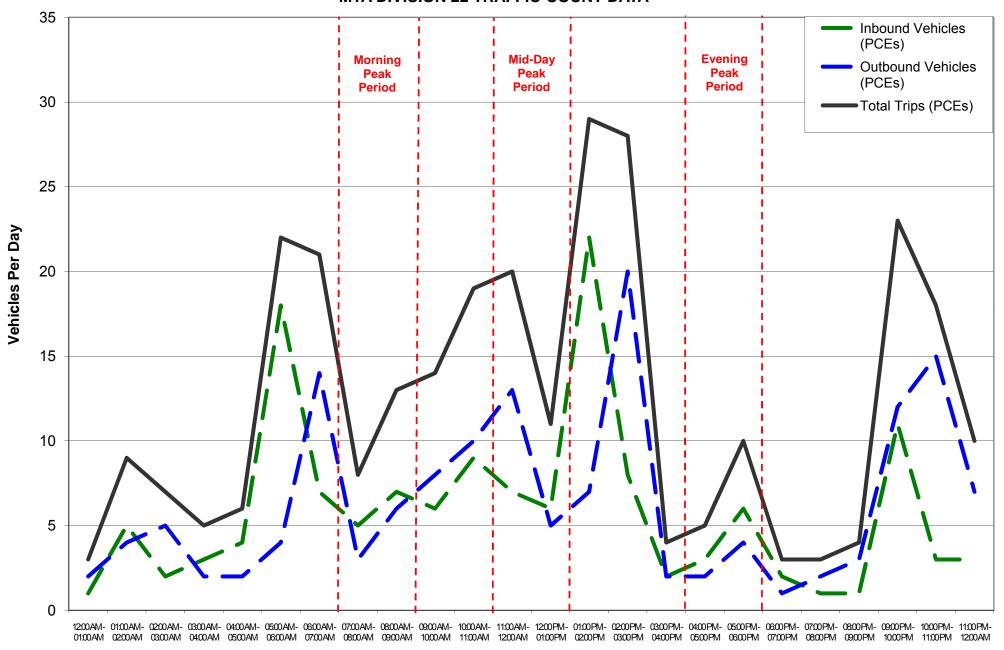




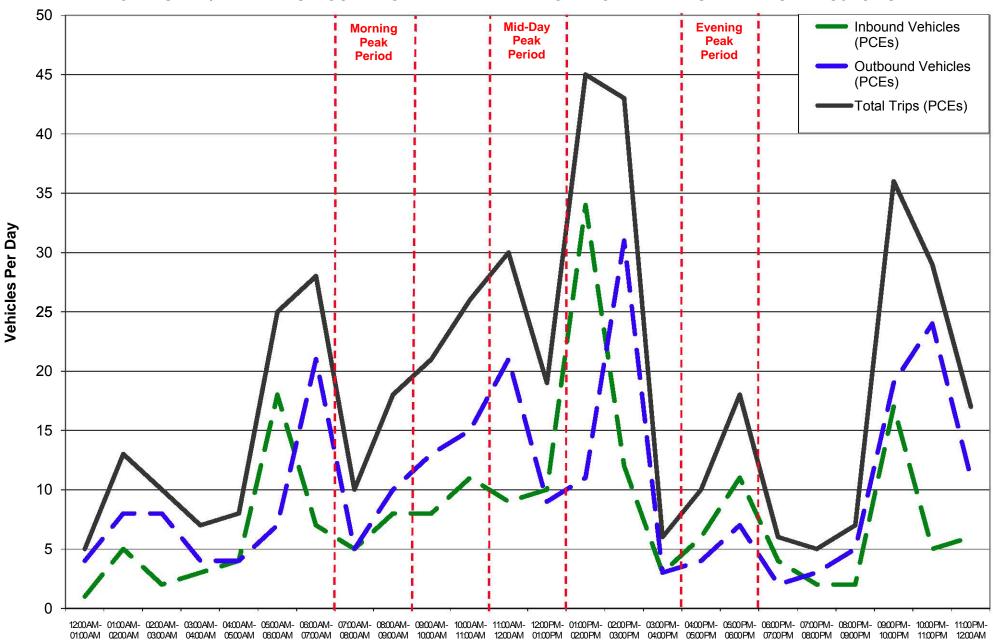
FIGURE 2
MTA DIVISION 22 TRAFFIC COUNT DATA



Time of Day

Traffic count conducted on Thursday June 10 2010 at MTA Division 22 Metro Green Line O & M Facility located at 14724 Aviation Blvd Hawthorne, CA PCEs - Passenger Car Equivalent

FIGURE 3
CRENSHAW/LAX TRANSIT CORRIDOR LRT MAINTAINANCE FACILITY TRIP GENERATION PROJECTION



Time of Day

Traffic projections based on Traffic counts collected at MTA Division 22 Metro Green Line O & M Facility located at 14724 Aviation Blvd, Hawthorne, CA PCEs - Passenger Car Equivalent

TABLE 1

EXISTING CONDITIONS			
Intersection	Peak	V/C	LOS
Site #17 – Marine/Redondo Beach Alternative			
1. Aviation Blvd/Marine Ave [1][3][4]	AM	0.879	D
	PM	0.890	D
2. Redondo Beach Ave/Marine Ave [3]	AM	0.532	A
	PM	0.820	D
3. Inglewood Ave/Marine Ave [2][3]	AM	0.872	D
	PM	0.867	D
4. Inglewood Ave/I-405 NB Ramps [2][3]	AM	0.722	C
	PM	0.748	C
5. Inglewood Ave/I-405 SB Ramps [3]	AM	0.748	C
	PM	0.850	D
6. Redondo Beach Ave/Manhattan Beach Blvd [3]	AM	0.914	E
	PM	0.836	D
7. Aviation Blvd/Manhattan Beach Blvd [3][4]	AM	0.866	D
	PM	1.073	F
Division 22 Northern Expansion Alternative			
1. Aviation Blvd/Marine Ave [1][3][4]	AM	0.879	D
	PM	0.890	D
2. Redondo Beach Ave/Marine Ave [3]	AM	0.532	A
	PM	0.820	D
3. Rosecrans Ave/Aviation Blvd [1][4][5]	AM	0.750	C
	PM	1.011	F
4. Rosecrans Ave/I-405 NB Ramps [1]	AM	0.774	C
	PM	0.848	D

Note: Intersection Capacity Utilization (ICU) methodology was used to calculate level of service for the above intersection.

- $\ensuremath{[1]}$ Intersection is under City of Hawthorne jurisdiction
- [2]- Intersection is under City of Lawndale jurisdiction
- [3]- Intersection is under City of Redondo Beach jurisdiction
- [4]- Intersection is under City of Manhattan Beach jurisdiction
- [5]- Intersection is under City of El Segundo jurisdiction

Please note that some of the above intersection may have shared jurisdiction

TABLE 2
TRAFFIC DATA FROM MTA DIVISION 22 SURVEY

Traffic counts data by Each Hour of the Day

Time Period	Inbound (PCEs) [1]	Outbound (PCEs) [1]	Total (PCEs) [1]
12:00 AM - 01:00 AM	1	2	3
01:00 AM - 02:00 AM	5	4	9
02:00 AM - 03:00 AM	2	5	7
03:00 AM - 04:00 AM	3	2	5
04:00 AM - 05:00 AM	4	2	6
05:00 AM - 06:00 AM	18	4	22
06:00 AM - 07:00 AM	7	14	21
07:00 AM - 08:00 AM	5	3	8
08:00 AM - 09:00 AM	7	6	13
09:00 AM - 10:00 AM	6	8	14
10:00 AM - 11:00 AM	9	10	19
11:00 AM - 12:00 AM	7	13	20
12:00 PM - 01:00 PM	6	5	11
01:00 PM - 02:00 PM	22	7	29
02:00 PM - 03:00 PM	8	20	28
03:00 PM - 04:00 PM	2	2	4
04:00 PM - 05:00 PM	3	2	5
05:00 PM - 06:00 PM	6	4	10
06:00 PM - 07:00 PM	2	1	3
07:00 PM - 08:00 PM	1	2	3
08:00 PM - 09:00 PM	1	3	4
09:00 PM - 10:00 PM	11	12	23
10:00 PM - 11:00 PM	3	15	18
11:00 PM - 12:00 AM	3	7	10
TOTAL	142	153	295

Morning Peak Period	7:00 - 8:00	7:15 - 8:15	7:30 - 8:30	7:45-8:45	8:00 - 9:00
Trips (PCEs) [1]	8	9	8	11	13
Evening Peak Period	4:00 - 5:00	4:15 - 5:15	4:30 - 5:30	4:45 - 5:45	5:00 - 6:00
Trips (PCEs) [1]	5	6	10	11	10

	Inbound	Outbound	Total
Morning Peak Hour Trips (PCEs)	7	6	13
Evening Peak Hour Trips (PCEs)	6	5	11

Note:

Source: 24-hour classified video counts were conducted on Thursday June 10, 2010 at Metro Division 22 Green Line LRT Maintenance Facility located at 14724 Aviation Boulevard, Hawthorne, California.

[1] - A Passenger Car Equivalent (PCE) factor of 2.0 was applied to truck count

TABLE 3
PROPOSED CRENSHAW O & M FACILITY TRIP GENERATION PROJECTIONS

Traffic Projection by Each Hour of the Day [2]

Time Period	Inbound (PCEs) [1]	Outbound (PCEs) [1]	Total (PCEs) [1]
12:00 AM - 01:00 AM	1	4	5
01:00 AM - 02:00 AM	5	8	13
02:00 AM - 03:00 AM	2	8	10
03:00 AM - 04:00 AM	3	4	7
04:00 AM - 05:00 AM	4	4	8
05:00 AM - 06:00 AM	18	7	25
06:00 AM - 07:00 AM	7	21	28
07:00 AM - 08:00 AM	5	5	10
08:00 AM - 09:00 AM	8	10	18
09:00 AM - 10:00 AM	8	13	21
10:00 AM - 11:00 AM	11	15	26
11:00 AM - 12:00 AM	9	21	30
12:00 PM - 01:00 PM	10	9	19
01:00 PM - 02:00 PM	34	11	45
02:00 PM - 03:00 PM	12	31	43
03:00 PM - 04:00 PM	3	3	6
04:00 PM - 05:00 PM	6	4	10
05:00 PM - 06:00 PM	11	7	18
06:00 PM - 07:00 PM	4	2	6
07:00 PM - 08:00 PM	2	3	5
08:00 PM - 09:00 PM	2	5	7
09:00 PM - 10:00 PM	17	19	36
10:00 PM - 11:00 PM	5	24	29
11:00 PM - 12:00 AM	6	11	17
Total	193	249	442

Morning Peak Period	7:00 - 8:00	7:15 - 8:15	7:30 - 8:30	7:45-8:45	8:00 - 9:00
Trips (PCEs) [1]	10	12	11	15	18

Evening Peak Period	4:00 - 5:00	4:15 - 5:15	4:30 - 5:30	4:45 - 5:45	5:00 - 6:00
Trips (PCEs) [1]	10	11	18	20	18

, ,	Inbound	Outbound	Total
Morning Peak Hour Trips (PCEs)	8	10	18
Evening Peak Hour Trips (PCEs)	11	9	20

Note:

[2] - Metro Division 22 LRT Maintenance Facility currently serves 39-LRV fleet. AM and PM peak hour traffic was adjusted with a factor of 1.54 (60/39) to adjust for the 60 LRV service capacity that are proposed at the Crenshaw/LAX Transit Corridor LRT Maintenance Facility.

^{[1] -} A Passenger Car Equivalent (PCE) factor of 2.0 was applied to truck count

TABLE 4
Criteria for Determination of Significant Traffic Impact

LOS	V/C Ratio	Project Related Increase in V/C Ratio
City of Hav	<u>vthone</u>	
С	>0.7000 < 0.800	Equal to or greater than 0.040
D	>0.8000 < 0.900	Equal to or greater than 0.020
E	>0.900 < 1.000	Equal to or greater than 0.010
F	>1.000	Equal to or greater than 0.010
City of Law	ındale [1]	
С	>0.7000 < 0.800	Equal to or greater than 0.040
D	>0.8000 < 0.900	Equal to or greater than 0.020
E	>0.900 < 1.000	Equal to or greater than 0.010
F	>1.000	Equal to or greater than 0.010
City Of Rec	dondo Beach	
С	>0.7000 < 0.800	Equal to or greater than 0.040
D	>0.8000 < 0.900	Equal to or greater than 0.020
Ε	>0.900 < 1.000	Equal to or greater than 0.010
F	>1.000	Equal to or greater than 0.010
City Of Ma	nhattan Beach	
D	>0.8000 < 0.900	Equal to or greater than 0.020
Е	>0.900 < 1.000	Equal to or greater than 0.010
F	>1.000	Equal to or greater than 0.010
City Of El S	egundo	
Е	>0.900 < 1.000	Equal to or greater than 0.020
F	>1.000	Equal to or greater than 0.020

^{[1] -} For the purpose of this traffic impact analysis, Los Angeles County significant impact criteria was used

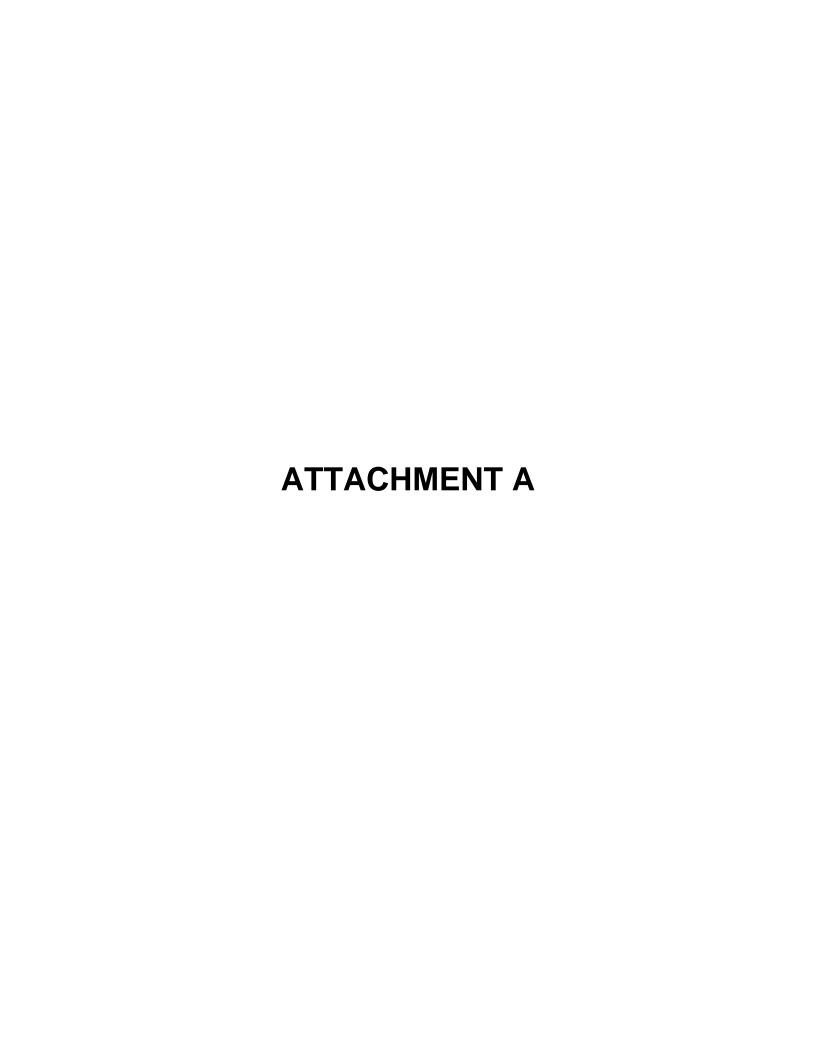
TABLE 5
FUTURE LEVEL OF SERVICE AND SIGNIFICANT IMPACT ANALYSIS

сими	LATIVE LEVE	L OF SERV	ICE				
		Without P	roject	With Pro	ject		
Intersection	Peak Hour	V/C or Delay	LOS	V/C or Delay	LOS	Change in V/C	Significant Impact? [1]
Site #17 – Marine/Redondo Beach Alternative							
1. Aviation Blvd/Marine Ave [1][3][4]	AM PM	0.942 0.953	E E	0.943 0.953	E E	0.001 0.000	No
2. Redondo Beach Ave/Marine Ave [3]	AM PM	0.567 0.879	A D	0.569 0.883	A D	0.002 0.004	No
3. Inglewood Ave/Marine Ave [2][3]	AM PM	0.935 0.929	E E	0.935 0.929	E E	0.000 0.000	No
4. Inglewood Ave/I-405 NB Ramps [2][3]	AM PM	0.772 0.800	C C	0.773 0.801	C D	0.001 0.001	No
5. Inglewood Ave/I-405 SB Ramps [3]	AM PM	0.801 0.911	D E	0.801 0.911	D E	0.000 0.000	No
6. Redondo Beach Ave/Manhattan Beach Blvd [3]	AM PM	0.980 0.895	E D	0.983 0.896	E D	0.003 0.001	No
7. Aviation Blvd/Manhattan Beach Blvd [3][4]	AM PM	0.928 1.151	E F	0.928 1.151	E F	0.000 0.000	No
Division 22 Northern Expansion Alternative					ш		
1. Aviation Blvd/Marine Ave [1][3][4]	AM PM	0.942 0.953	E E	0.943 0.953	E E	0.001 0.000	No
2. Redondo Beach Ave/Marine Ave [3]	AM PM	0.567 0.879	A D	0.567 0.879	A D	0.000 0.000	No
3. Rosecrans Ave/Aviation Blvd [1][4][5]	AM PM	0.801 1.085	D F	0.805 1.088	D F	0.004 0.003	No
4. Rosecrans Ave/I-405 NB Ramps [1]	AM PM	0.828 0.907	D E	0.831 0.910	D E	0.003 0.003	No

Note: Intersection Capacity Utilization (ICU) methodology was used to calculate level of service for the above intersection.

- [1] Intersection is under City of Hawthorne jurisdiction
- [2]- Intersection is under City of Lawndale jurisdiction
- [3]- Intersection is under City of Redondo Beach jurisdiction
- [4]- Intersection is under City of Manhattan Beach jurisdiction
- [5]- Intersection is under City of El Segundo jurisdiction

Please note that some of the above intersection may have shared jurisdiction



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ATTACHMENT A-1	
EXISTING TRAFFIC VOLUMES	

	ENSING TRAFFIC VOLUMES																							
		AM							PM															
Intersection	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1 Aviation Blvd/Marine Ave	156	1,667	187	110	848	134	159	348	53	122	485	235	155	940	147	208	1,729	223	138	643	184	120	406	170
2 Redondo Beach Ave/Marine Ave	170	18	236	11	14	11	19	498	67	290	913	11	77	13	438	39	37	11	28	944	183	226	550	9
3 Inglewood Ave/Marine Ave	357	648	80	116	568	218	159	241	331	248	780	135	273	756	127	202	887	157	248	665	548	173	403	152
4 Inglewood Ave/I-405 NB Ramps	0	765	600	0	778	543	0	0	0	453	0	368	0	745	806	0	1,314	329	0	0	0	489	0	421
5 Inglewood Ave/I-405 SB Ramps	0	1,221	437	0	836	404	145	0	970	0	0	0	0	1,470	324	0	1,258	457	155	0	1,143	0	0	0
6 Redondo Beach Ave/Manhattan Beach Blvd	102	248	144	64	38	64	130	939	24	70	1,455	412	24	51	84	490	173	148	32	1,398	45	121	1,254	85
7 Aviation Blvd/Manhattan Beach Blvd	63	1,538	186	107	683	134	208	715	112	294	752	330	145	699	195	343	1,484	217	161	711	211	502	770	213
8 Aviation Blvd/Rosecrans Ave	202	1,240	428	83	567	441	168	557	64	617	1,287	435	207	630	492	346	1,656	723	346	1,678	196	471	1,008	168
9 Rosecrans Ave/I-405 NB Ramps	661	0	92	0	0	0	0	588	666	0	857	607	529	0	240	0	0	0	0	1,469	865	0	786	465

Source: Fehr & Peers, 2010

ATTACHMENT A-2 CUMULATIVE BASE (2018) TRAFFIC VOLUMES																											
							AM												PM	1							
Intersection	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR			
1 Aviation Blvd/Marine Ave	168	1,800	202	119	916	145	172	376	57	132	524	254	167	1,015	159	225	1,867	241	149	694	199	130	438	184			
2 Redondo Beach Ave/Marine Ave	184	19	255	12	15	12	21	538	72	313	986	12	83	14	473	42	40	12	30	1,020	198	244	594	10			
3 Inglewood Ave/Marine Ave	386	700	86	125	613	235	172	260	357	268	842	146	295	816	137	218	958	170	268	718	592	187	435	164			
4 Inglewood Ave/I-405 NB Ramps	0	826	648	0	840	586	0	0	0	489	0	397	0	805	870	0	1,419	355	0	0	0	528	0	455			
5 Inglewood Ave/I-405 SB Ramps	0	1,319	472	0	903	436	157	0	1,048	0	0	0	0	1,588	350	0	1,359	494	167	0	1,234	0	0	0			
6 Redondo Beach Ave/Manhattan Beach Blvd	110	268	156	69	41	69	140	1,014	26	76	1,571	445	26	55	91	529	187	160	35	1,510	49	131	1,354	92			
7 Aviation Blvd/Manhattan Beach Blvd	68	1,661	201	116	738	145	225	772	121	318	812	356	157	755	211	370	1,603	234	174	768	228	542	832	230			
8 Rosecrans/Aviation	218	1,339	462	90	612	476	181	602	69	666	1,390	470	224	680	531	374	1,788	781	374	1,812	212	509	1,089	181			
9 Rosecrans/I-405 NB Ramps	714	0	99	0	0	0	0	635	719	0	926	656	571	0	259	0	0	0	0	1,587	934	0	849	502			
Source: Fehr & Peers, 2010																											

ATTACHMENT A-3 ASSIGNED PROJECT TRIPS - SITE 17

ASSIGNED PROJECT TRUE 5																								
	AM							PM																
Intersection	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1 Aviation Blvd/Marine Ave	*	*	*	1	*	*	*	*	*	*	*	1	*	*	*	1	*	*	*	*	*	*	*	1
2 Redondo Beach Ave/Marine Ave	1	*	5	*	*	*	*	*	1	4	*	*	1	*	4	*	*	*	*	*	1	5	*	*
3 Inglewood Ave/Marine Ave	*	*	*	*	*	*	1	1	*	*	1	*	*	*	*	*	*	1	*	1	*	*	1	*
4 Inglewood Ave/I-405 NB Ramps	*	*	2	*	*	1	*	*	*	1	*	2	*	*	2	*	*	1	*	*	*	1	*	2
5 Inglewood Ave/I-405 SB Ramps	*	*	1	*	*	2	1	*	2	*	*	*	*	*	1	*	*	2	1	*	2	*	*	*
6 Redondo Beach Ave/Manhattan Beach Blvd	*	*	*	4	*	1	*	*	*	*	*	3	*	*	*	4	*	*	1	*	*	*	*	4
7 Aviation Blvd/Manhattan Beach Blvd	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	1	*	*	*	*

Note: Asterisk (*) identifies turning movements with negligible amounts of project traffic

Source: Fehr & Peers, 2010

ATTACHMENT A-4 ASSIGNED PROJECT TRIPS - DIV 22 AM BT SBR EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR EBL EBT EBR WBL WBT WBT

			AIVI								PIVI														
	Intersection	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
ľ	1 Aviation Blvd/Marine Ave	*	*	*	1	1	1	*	*	*	*	*	*	*	1	*	*	*	*	1	*	*	*	*	1
	2 Redondo Beach Ave/Marine Ave	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*
	3 Rosecrans/Aviation	1	1	7	*	*	*	*	*	1	6	*	*	1	*	6	*	1	*	*	*	1	8	*	*
L	4 Rosecrans/I-405 NB Ramps	2	*	*	*	*	*	*	1	3	*	1	*	3	*	*	*	*	*	*	1	3	*	1	*

Note: Asterisk (*) identifies turning movements with negligible amounts of project traffic

Source: Fehr & Peers, 2010

ATTACHMENT A-5										
CUMULATIVE PLUS PROJECT TRAFFIC VOLUMES (SITE 17) AM PM										
WBL WBT WBR										
130 438 185										
249 594 10										
187 436 164										
529 0 457										
0 0 0										
131 1,354 96										
542 832 230										
0 131 1,										

ATTACHMENT A-6 CUMULATIVE PLUS PROJECT TRAFFIC VOLUMES (DIV 22)																								
AM								PM																
Intersection	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1 Aviation Blvd/Marine Ave	168	1,800	202	120	917	146	172	376	57	132	524	254	167	1,016	159	225	1,867	241	150	694	199	130	438	185
2 Redondo Beach Ave/Marine Ave	184	19	255	12	15	12	21	539	72	313	986	12	83	14	473	42	40	12	30	1,020	198	244	595	10
3 Rosecrans/Aviation	387	701	93	125	613	235	172	260	358	274	842	146	296	816	143	218	959	170	268	718	593	195	435	164
4 Rosecrans/I-405 NB Ramps	2	826	648	0	840	586	0	1	3	489	1	397	3	805	870	0	1,419	355	0	1	3	528	1	455
Source: Fehr & Peers, 2010																								



Figure 1 shows locations of the four candidate sites. Following is a brief description of these sites:

- Site 5: Manchester/Portal Manchester/Portal is a 28.4-acre site in the City of Los Angeles containing primarily industrial uses that include Merle Norman Cosmetics, an Enterprise Rent-A-Car facility, an LAX professional office building, and the Gateway Shopping Center along Manchester Avenue. Rail access to the site is proposed via an at-grade connection at the southern end. Vehicular access to the site is proposed to be provided from three driveways along northbound Bellanca Avenue. Figure 2 shows the proposed site plan for Site 5. As shown in Figure 2, a total of 126 parking spaces are proposed on this site.
- Site 11: Imperial/Aviation Imperial/Aviation is a 29.8-acre vacant site in the City of Los Angeles owned by the Los Angeles World Airports. A large portion of the site is below ground level. Rail access to the site is proposed via an underground connection across Aviation Boulevard and under 111th Street into the site. Vehicular access to the site is provided via driveways along 111th Street. Figure 3 shows the proposed site plan for Site 11. As shown in Figure 3, a total of 126 parking spaces are proposed on this site.
- Site 14: Arbor Vitae/Bellanca Arbor Vitae/Bellanca is a 30.5-acre site in the City of Los Angeles containing primarily industrial uses, which include Neutrogena Corporation and Dollar Rent-A-Car facility. Rail access to the site would be an at-grade connection on the southeast portion along an existing Harbor Subdivision spur. Vehicular access to the site is proposed from driveways along eastbound Arbor Vitae Street. Figure 4 shows the proposed site plan for Site 14. As shown in Figure 4, a total of 123 parking spaces are proposed on this site.
- Site 15: Manchester/Aviation Manchester/Aviation is a 24.7-acre site in the City of Inglewood containing primarily industrial uses, which include a National/Alamo Rent-A-Car facility and Crimson Technical College. Rail access is proposed at the southern end along Portal Avenue and would require an aerial crossing at Manchester Avenue over the existing Harbor Subdivision tracks. Vehicular access is proposed from a driveway along southbound Aviation Boulevard. Figure 113 shows the proposed site plan for Site 15.

STUDY SCOPE

This study evaluates the potential for project-generated traffic impacts on the street system surrounding the project site. The site access plan was evaluated to ensure it is adequate to accommodate anticipated flows. Peak hour traffic impacts for the project were evaluated for the peak hours during typical weekday morning (7:00 to 9:00 AM) and afternoon (4:00 to 6:00 PM) peak periods. The following traffic scenarios were analyzed in the study:

- Existing Conditions The analysis of existing AM and PM weekday peak hour traffic conditions
 provides a basis for the assessment of future traffic conditions. The existing conditions analysis
 includes a description of key area streets and highways, traffic volumes, and current intersection
 and roadway operating conditions.
- Cumulative Base (Year 2018) Conditions This scenario projects the future traffic growth and intersection operating conditions that could be expected from regional growth and known related projects in the vicinity of the project site. These analyses provide the baseline conditions against which project impacts are evaluated.



Cumulative plus Project (Year 2018) Conditions – This analysis identifies the incremental impacts
of the proposed project on future traffic operating conditions by adding the traffic expected to be
generated by the proposed project to the cumulative base traffic forecasts.

Following is a list of study intersections identified in the vicinity of each of the four candidate project site alternatives under each of the three traffic scenarios described above:

Site 5: Manchester/Portal (Figure 6)

- 1. Manchester Avenue & Airport Boulevard
- 2. Arbor Vitae Street & Airport Boulevard
- 3. Manchester Avenue & Aviation Boulevard
- 4. Arbor Vitae Street & Aviation Boulevard

Site 11: Imperial/Aviation (Figure 7)

- 1. 111th Street & Aviation Boulevard
- 2. Imperial Highway & Aviation Boulevard
- 3. 111th Street & La Cienega Boulevard
- 4. Imperial Highway & La Cienega Boulevard
- 5. I-405 Southbound Ramps & La Cienega Boulevard
- 6. Imperial Highway & I-105 Eastbound On-/Westbound Off-Ramps

Site 14: Arbor Vitae/Bellanca (Figure 8)

- 1. Arbor Vitae Street & Airport Avenue
- 2. Century Boulevard & Airport Boulevard
- 3. Arbor Vitae Street & Aviation Boulevard
- 4. Century Boulevard & Aviation Boulevard

Site 15: Manchester/Aviation (Figure 9)

- 1. Manchester Avenue & Airport Boulevard
- 2. Arbor Vitae Street & Airport Boulevard
- 3. Manchester Avenue & Aviation Boulevard
- 4. Arbor Vitae Street & Aviation Boulevard

EXISTING TRAFFIC CONDITIONS

This section describes the peak hour traffic volumes, the methodology used to analyze the intersection operating conditions, and the resulting levels of service (LOS) for the selected study intersections under existing conditions.

Existing Traffic Volumes

Intersection vehicular turning movement count data for weekday morning and evening peak periods was obtained from previous traffic studies prepared for projects in the vicinity of the proposed sites and collected in Year 2008. A comparative analysis of historic traffic count data at key intersections indicated negligible to negative growth in traffic within the sub-region. Therefore, no growth adjustment was applied to traffic counts from Year 2008 to estimate Year 2010 traffic volumes. Attachment A contains the original traffic



count data. Figures 10 through 13 show existing weekday morning and evening peak hour traffic volumes at the study intersections for each of the four project site alternatives.

Level of Service Methodology

All of the study intersections under each of the four candidate sites analyses are controlled by traffic signals. In accordance with *Traffic Study Policies and Procedures* (LADOT, March 2002), this study is required to use the Critical Movement Analysis (CMA) method of intersection capacity calculation (*Transportation Research Circular No. 212*, Transportation Research Board, 1980) to analyze signalized intersections. The CMA operational method determines an intersections volume-to-capacity (V/C) ratio at intersections based on the amount of traffic traveling through the intersection, the travel lane geometries, and other factors affecting capacity such as on-street parking, bus operations near the intersection, and pedestrian volumes at the street crosswalks. These characteristics are used to evaluate the operation of each intersection, which is described generally in terms of LOS.

LOS categories range from excellent, nearly free-flow traffic at LOS A to overloaded, stop-and-go conditions at LOS F. The LOS definitions and the relationship between LOS and V/C ratio using CMA methodology are provided in Table 1. The LOS definitions and the ranges of control delay shown in Table 1 represent average conditions for all vehicles at an intersection across an entire hour. Delays longer than the average condition are experienced by motorists on certain movements and/or during peak times within the peak hour. LADOT has designated LOS D as the minimum acceptable LOS at arterial and collector street intersections.

A credit of 10% or 0.10 in the V/C ratio was applied to all the analyzed intersections since all study intersections are currently installed with LADOT's Automated Traffic Surveillance and Control (ATSAC) and the ATCS technology.

Existing Levels of Service

The results of the analysis of existing weekday morning and afternoon peak hour conditions at the study intersections are summarized in Table 2. Detailed LOS calculations are provided in Attachment B. As shown in the table, all but one study intersection currently operates at LOS D or better during analyzed time periods under the four candidate site analyses. Only one intersection is currently operating at LOS E or F during at least one of the analyzed peak hours:

 Manchester Avenue & Airport Boulevard analyzed under Sites 5 and 15 alternatives (LOS E in the in the PM peak hour)

FUTURE TRAFFIC CONDITIONS

To evaluate the potential impacts of the proposed project on the surrounding street system, it was necessary to develop estimates of future traffic conditions in the area both without and with the proposed project's traffic. First, estimates of traffic growth were developed for the study area to forecast future conditions without the project. These forecasts included traffic increases due to general regional ambient traffic growth. These projected traffic volumes, identified herein as the cumulative base conditions, represent the future study year conditions without the proposed project. The traffic generated by the proposed project was then estimated and assigned to the surrounding street system. The project traffic was added to the cumulative base to form the cumulative plus project traffic conditions, which were analyzed to determine the incremental traffic impacts attributable to the project itself.



Future (Year 2018) Base without Project Traffic Projections

The traffic volume growth reflected in the development of the future base without conditions takes into account the expected growth in traffic over existing conditions due to the effect of overall growth and development outside the study area. Based on historic trends and projected growth in the region over the next eight years, it was established that an ambient growth rate factor of 1% per year should be applied to adjust the existing base year traffic volumes to reflect the effects of regional growth and development by the Year 2018. An adjustment of 8% was applied to existing weekday peak hour traffic counts to reflect the effect of ambient growth by the Year 2012. The resulting future (Year 2018) base traffic volumes are shown in Figures 14 through 17 for each of the four project site alternatives.

Future (Year 2018) plus Project Traffic Projections

The traffic projections for the proposed project were developed using three steps: estimating the trip generation of the project, determining trip distribution, and assigning the project traffic to the roadway system.

Project Trip Generation

The trip generation estimates for the project were prepared using empirical data collected at an existing LRT maintenance facility, MTA Division 22 serving the Metro Green Line at 14724 Aviation Boulevard in Lawndale. Classified driveway traffic data were collected at this maintenance facility using a video camera for a 24-hour period. Data related to number of passenger cars and trucks going in and out of the site were collected on a typical weekday. This empirical data can be found in Attachment C. A passenger car equivalent (PCE) factor of 2.0 was used to convert truck trips in the PCEs for the purpose of trip generation estimates. The truck PCE trips were combined with the passenger car vehicles trips to arrive at total inbound/outbound daily trips. Figure 18 shows trips generated by MTA Division 22 by each hour of the day.

Using the above empirical data, weekday morning and evening peak hour trip generation of the survey facility were determined. As shown in Table 3, Division 22 currently generates a total of 13 trips in the morning peak hour (7 inbound/6 outbound) and 11 trips during the evening peak hours (6 inbound/5 outbound).

MTA Division 22 serves a total of 39 Light Rail Vehicles (LRVs). The proposed project is expected to serve a total of 60 LRVs. Trip generation for the proposed facility was estimated by applying to the MTA Division 22 trips a factor proportional to the size of the facility in terms of number of LRVs served. Thus, a factor of 1.54 was applied to Division 22 traffic count data including both passenger cars and trucks to calculate trip generation for the proposed Crenshaw/LAX Transit Corridor LRT maintenance facility.

After applying a PCE factor of 2.0 to convert truck trips into PCEs, as shown in Table 4, the proposed project is estimated to generate a total of 18 trips during the morning peak hour (8 inbound/10 outbound) and 20 trips during the evening peak hours (11 inbound/9 outbound) Figure 19 shows a chart of the proposed project trip projections.

Each of the four candidate sites, except for Site 11 (Imperial/Aviation) involve removal or relocation of existing properties currently operating at the sites. It is assumed these uses will most likely relocate within the same sub-region. Therefore, to be conservative, no trip credit was taken for existing uses as part of project trip generation estimates.



Project Traffic Distribution

The geographic distribution of trips generated by the project were dependant on location of residential areas from which the project will draw home-work trips; location of each of the four candidate sites with respect to access to regional freeway and roadway network; and level of accessibility of routes to and from the proposed candidate sites. On a sub-regional level, approximately 70% of the trips were estimated to use the freeways and 30% on the major roadways adjacent to the four analyzed sites.

Project Traffic Assignment

The traffic to be generated by the proposed project at each of the analyzed sites was assigned to the street network using the distribution described above. Figures 20 through 23 illustrate the assignment of proposed project-generated peak hour traffic volumes at the analyzed intersections under each of the four site alternatives.

The proposed project traffic volumes were added to future (Year 2018) base traffic projections, resulting in a future (Year 2018) plus project morning and evening peak hour traffic volumes. Figures 24 through 27 show the future plus project volumes at each of the study intersections under the four analyzed site alternatives.

Future Base and Future plus Project Levels of Service

Future (Year 2018) Base Levels of Service

The results of the analysis of future (Year 2018) base weekday morning and afternoon peak hour conditions at the study intersections are summarized in Table 5. Detailed LOS calculations are provided in Attachment B. As shown in the table, all but one study intersection are projected to operate at LOS D or better during analyzed time periods under the four candidate site analyses. Only one intersection is projected to operate at LOS E or F during at least one of the analyzed peak hours:

 Manchester Avenue & Airport Boulevard analyzed under Sites 5 and 15 alternatives (LOS F in the in the PM peak hour)

Future (Year 2018) plus Project Levels of Service

The results of the analysis of future (Year 2018) base plus project weekday morning and afternoon peak hour conditions at the study intersections are summarized in Table 5. Detailed LOS calculations are provided in Attachment B. As shown in the table, similar to the future base traffic conditions, all but one study intersection is projected to operate at LOS D or better during analyzed time periods under the four candidate site analyses. Only one intersection is expected to operate at LOS E or F during at least one of the analyzed peak hours:

 Manchester Avenue & Airport Boulevard analyzed under Sites 5 and 15 alternatives (LOS F in the in the PM peak hour) To: Mr. Mike Sullivan July 1, 2010

Page 7



INTERSECTION TRAFFIC IMPACT ANALYSIS

The traffic impact analysis compares the projected LOS at each study intersection under the cumulative base and cumulative plus project conditions to estimate the incremental increase in the V/C ratio caused by the proposed project. This provides the information needed to assess the potential impact of the project using significant criteria established by LADOT.

Criteria for Determination of Significant Traffic Impact

The City of Los Angeles' established threshold criteria were used to determine whether the proposed project would have a significant traffic impact at the study intersections. Under the City's guidelines, a project impact would be considered significant if the following conditions are met:

	ction Conditions with Project Traffic	
		Project-related Increase
LOS	V/C Ratio	in V/C Ratio
С	> 0.700 - 0.800	Equal to or greater than 0.040
D	> 0.800 - 0.900	Equal to or greater than 0.020
E, F	> 0.900	Equal to or greater than 0.010

Project Impacts

Table 5 shows, using the criteria for determination of significant impacts, the proposed project would not create significant traffic impacts at any of the study intersections during the morning or the evening peak hours under any of the four analyzed site alternatives. Therefore, no mitigation measures would be required.

REGIONAL TRANSPORTATION SYSTEM ANALYSIS

This section presents the regional transportation system impact analysis for the proposed project. This analysis was conducted in accordance with the transportation impact analysis procedures outlined in 2004 Congestion Management Program for Los Angeles County (CMP) (Metro, July 2004).

CMP Traffic Impact Analysis Criteria

The CMP guidelines require that the first issue addressed is the determination of the geographic scope of the study area. The criteria for determining the study area for CMP arterial monitoring intersections and for freeway monitoring locations are:

- All CMP arterial monitoring intersections where the proposed project will add 50 or more trips during either the AM or PM weekday peak hours of adjacent street traffic.
- All CMP mainline freeway monitoring locations where the proposed project will add 150 or more trips, in either direction, during either the AM or PM weekday peak hours.

The two CMP arterial monitoring intersections nearest to the project site are:



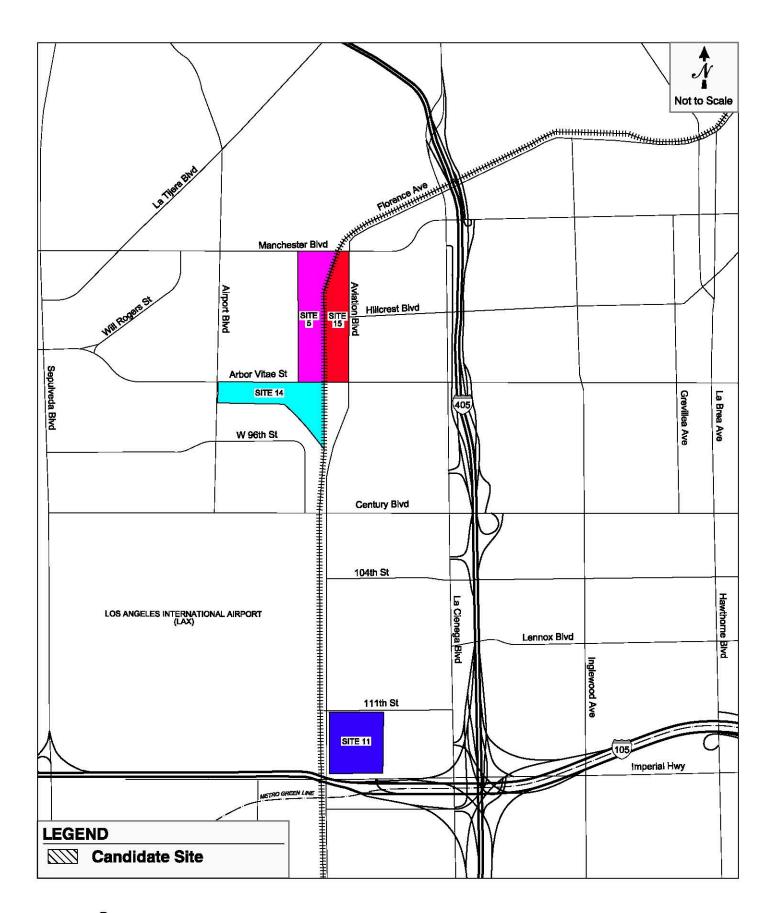
- Manchester Avenue & Sepulveda Boulevard (City of Los Angeles)
- Manchester Avenue & La Brea Boulevard (City of Inglewood)

Based on the project trip generation estimates previously presented and a review of the project traffic volumes shown in Figures 24 - 27, the proposed project is not expected to add more than 50 net vehicles per hour (vph) at either of the two intersection during the AM or PM peak hours. As a result, no further CMP arterial monitoring analysis is required. Therefore, project impact on CMP arterial system is determined to be less than significant.

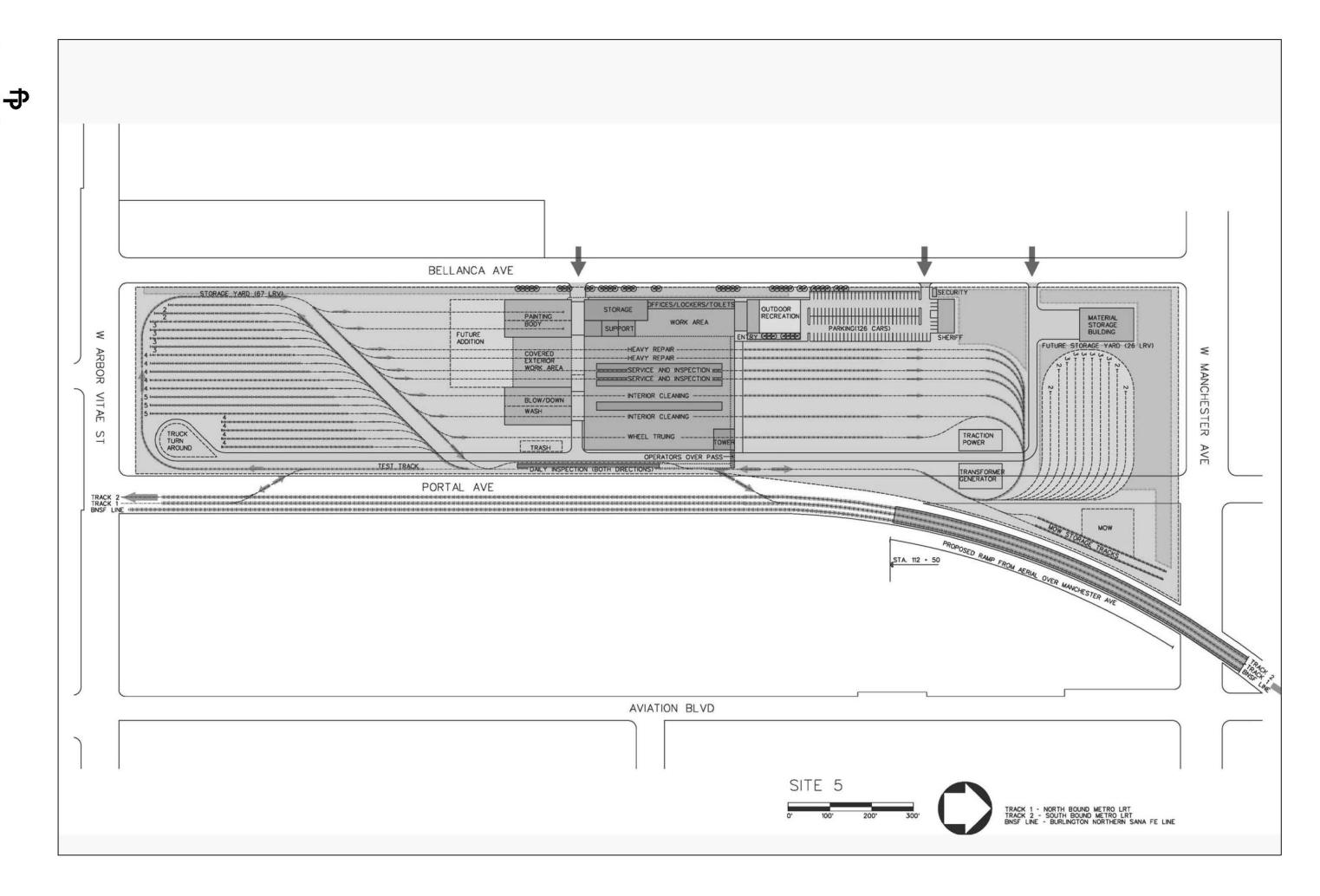
The mainline freeway monitoring locations nearest to the project site are:

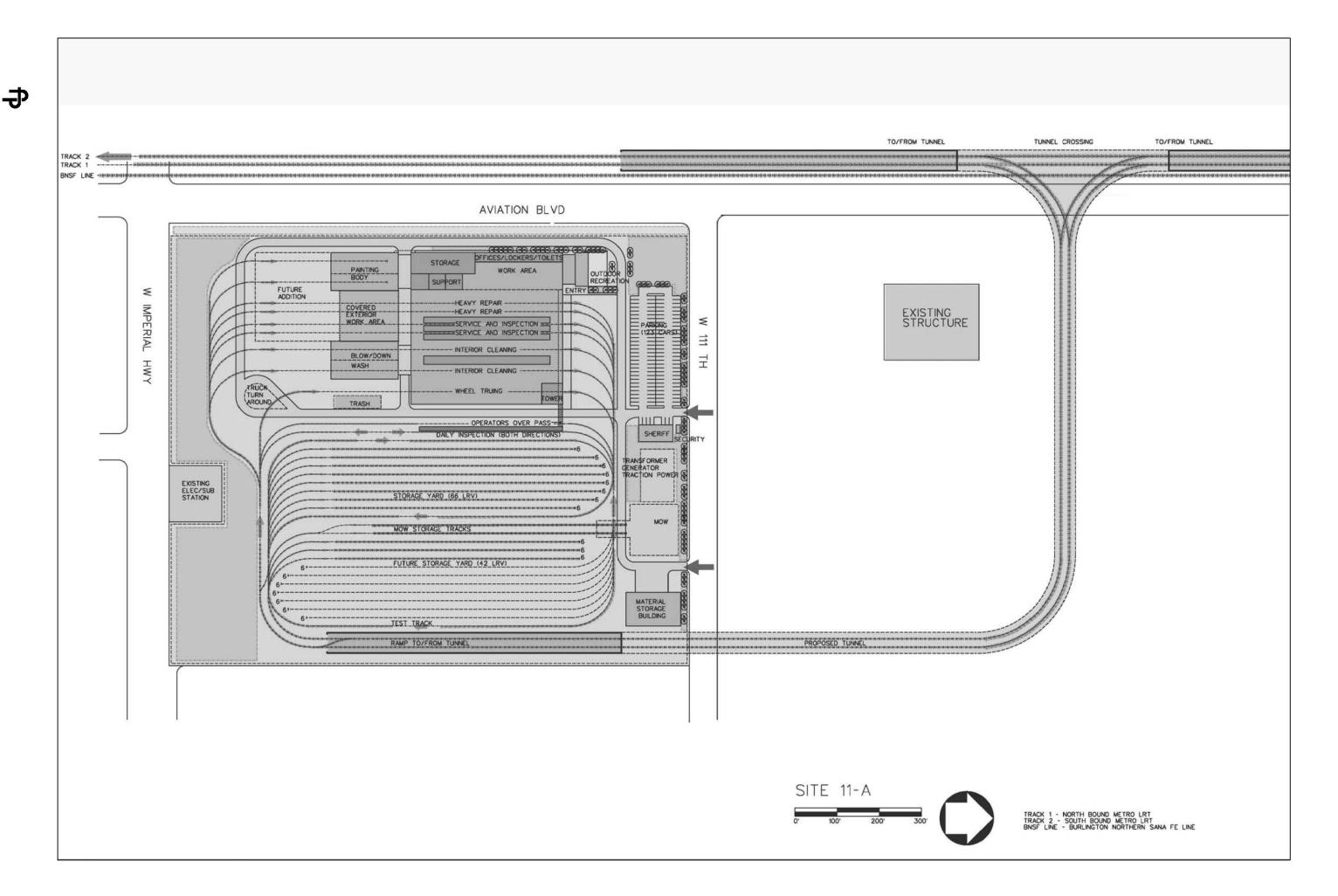
- I-105 Freeway east of Sepulveda Boulevard
- I-405 Freeway north of La Tijera Boulevard

Based on the incremental project trip generation estimates and the project trip assignment, the proposed project would not add sufficient new traffic to exceed the freeway analysis criteria at these locations. Because incremental project-related traffic in any direction during either weekday peak hour is projected to be below the minimum criterion of 150 vph, no further CMP freeway analysis is required. Therefore, project impact on CMP freeway system is determined to be less than significant.









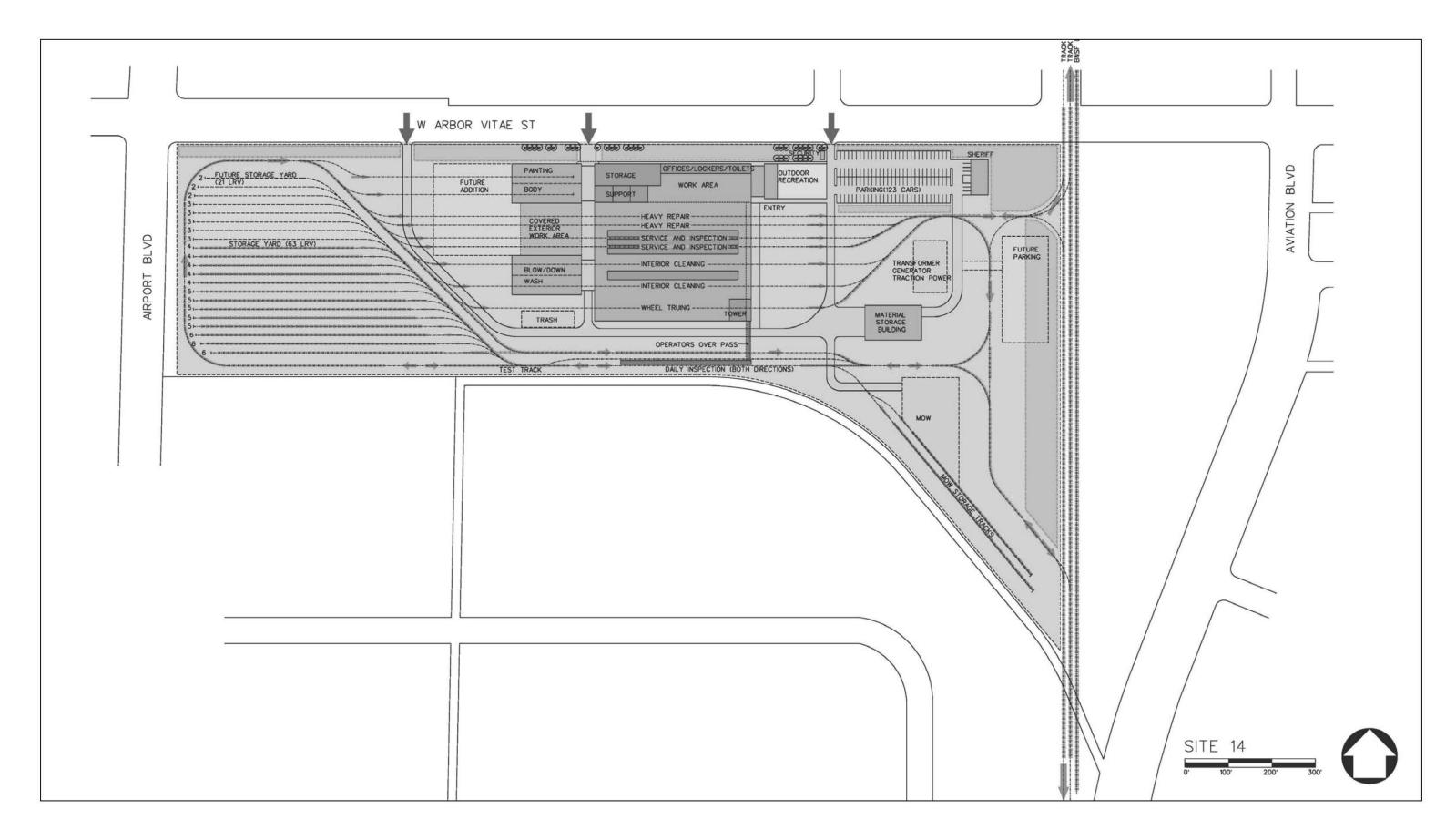
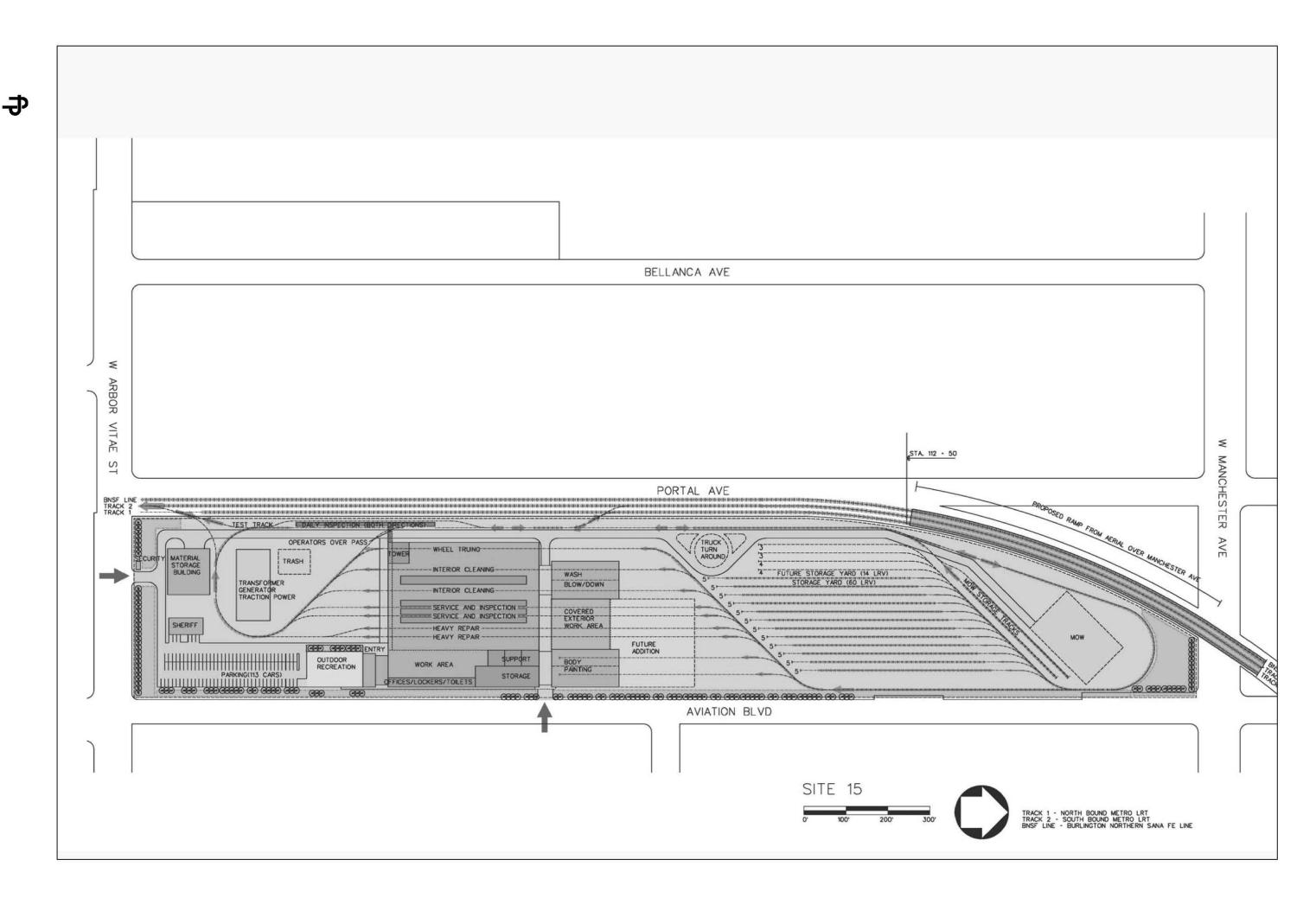
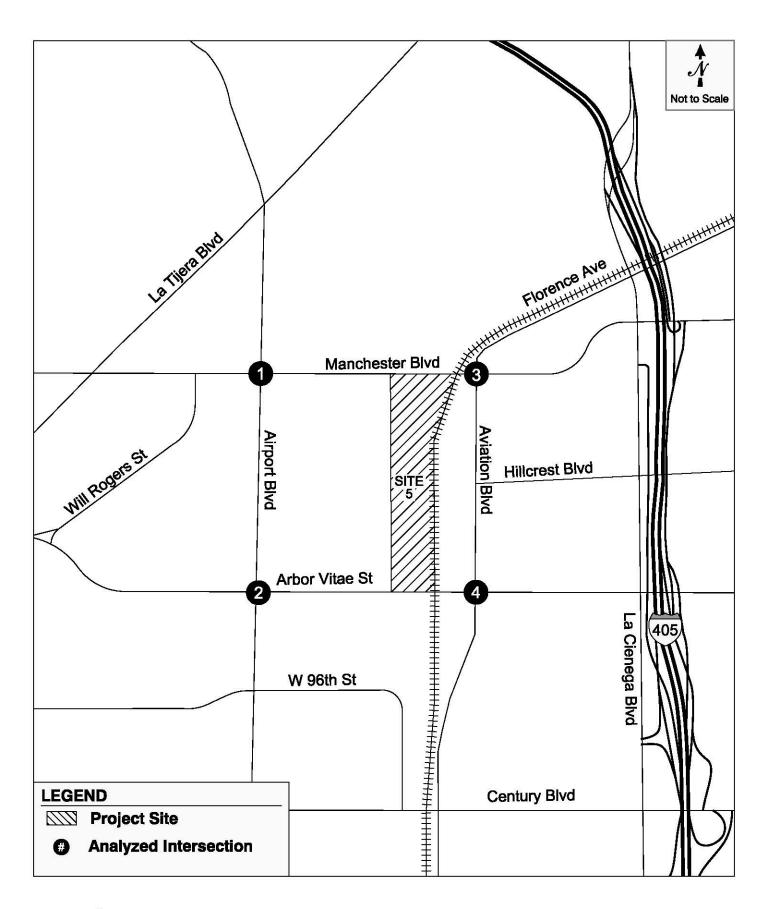


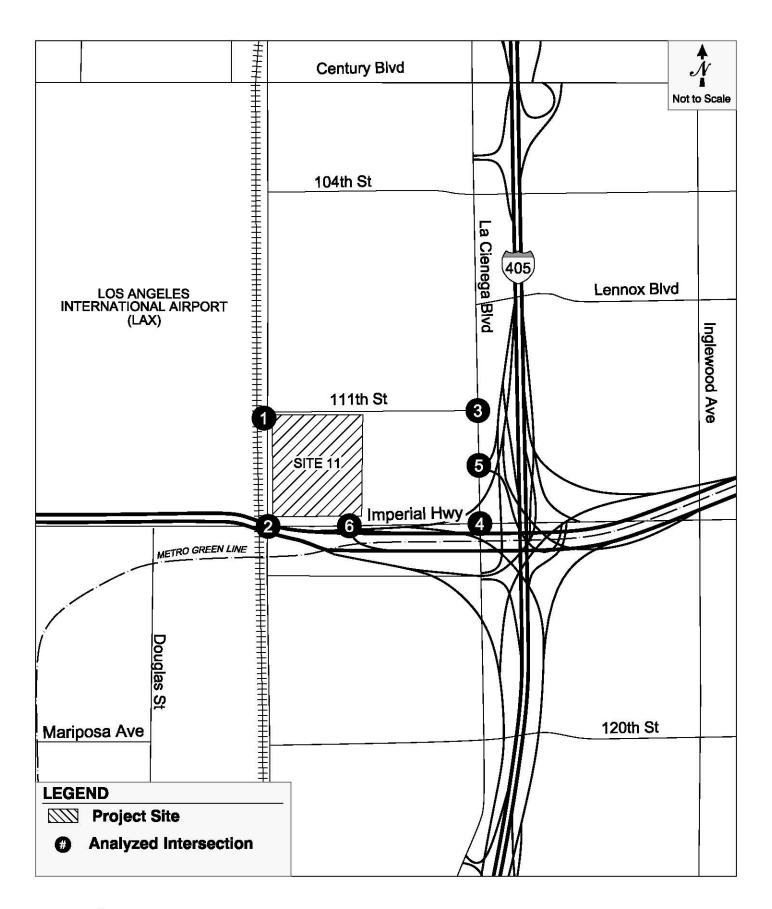


FIGURE 4



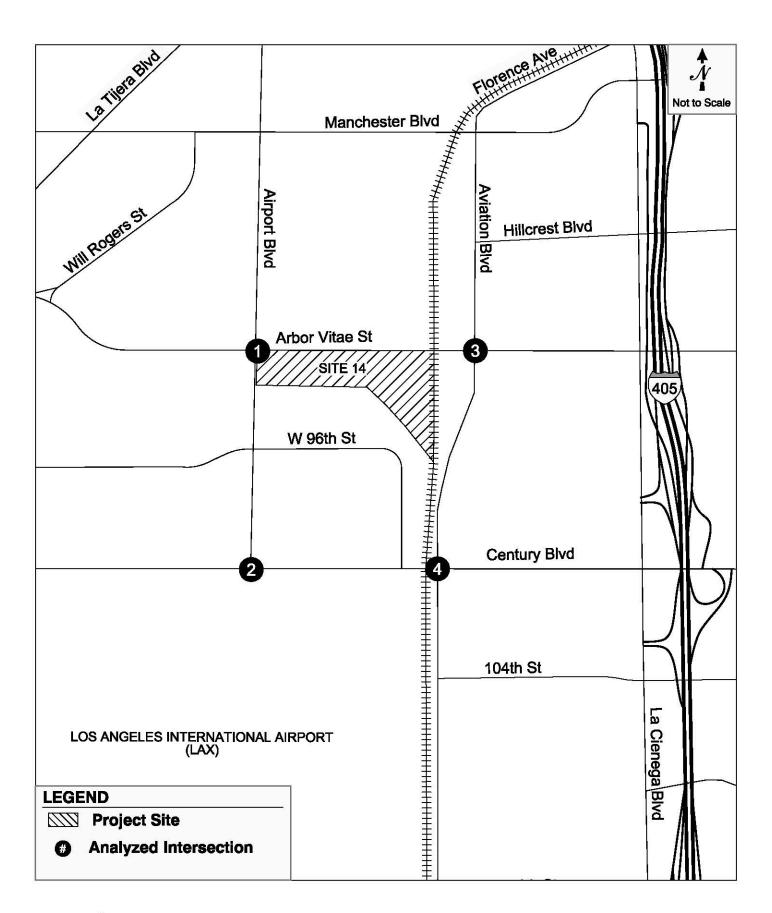






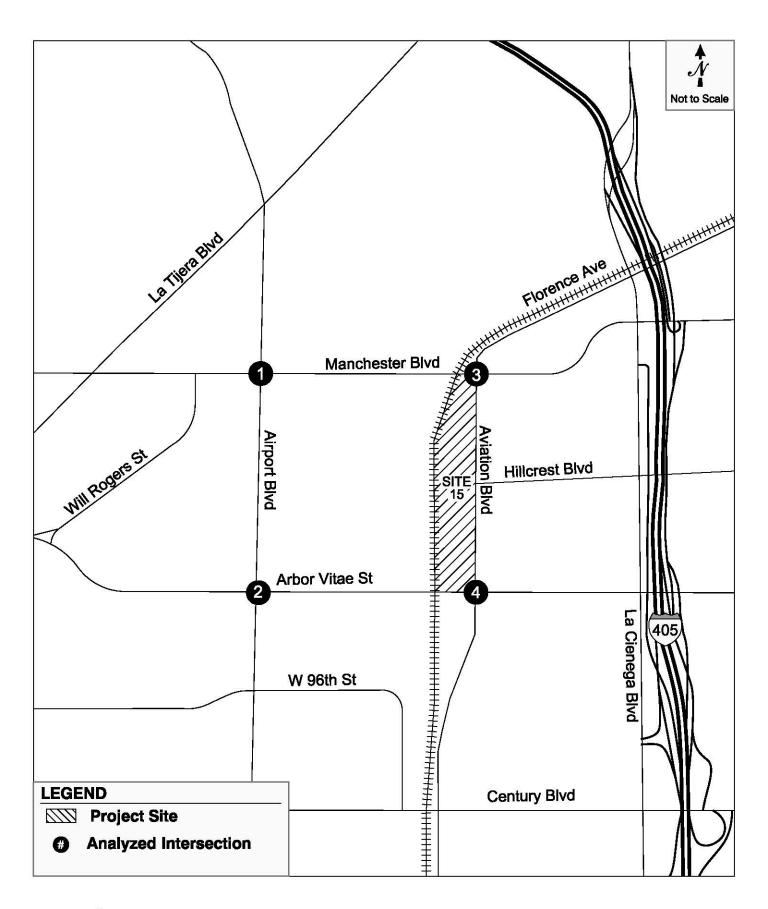


LOCATION OF ANALYZED INTERSECTIONS SITE 11:IMPERIAL/AVIATION

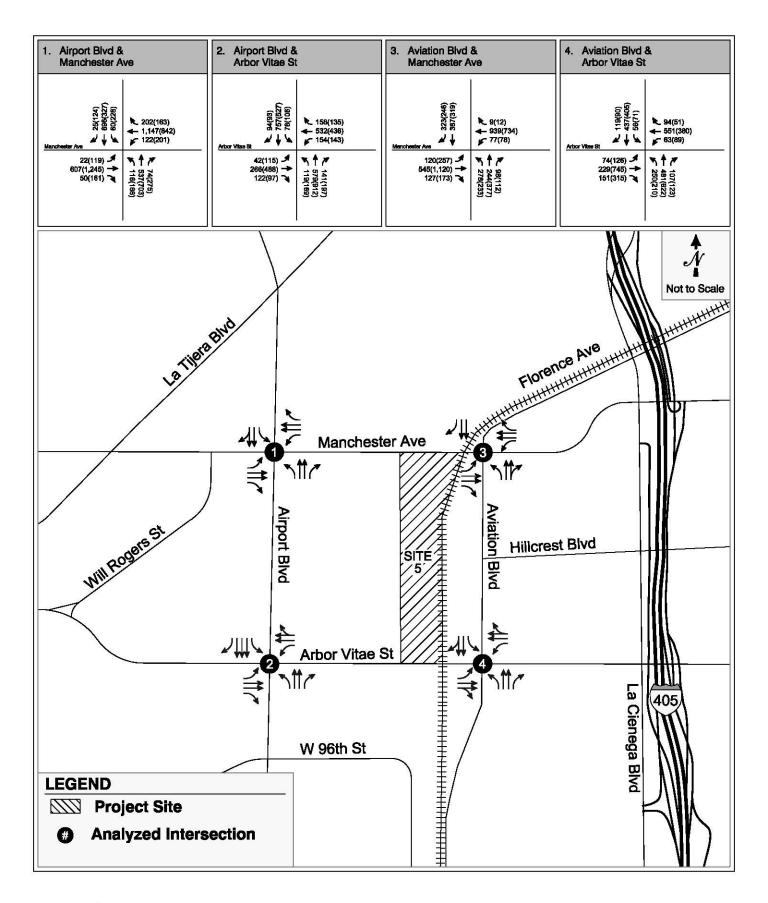




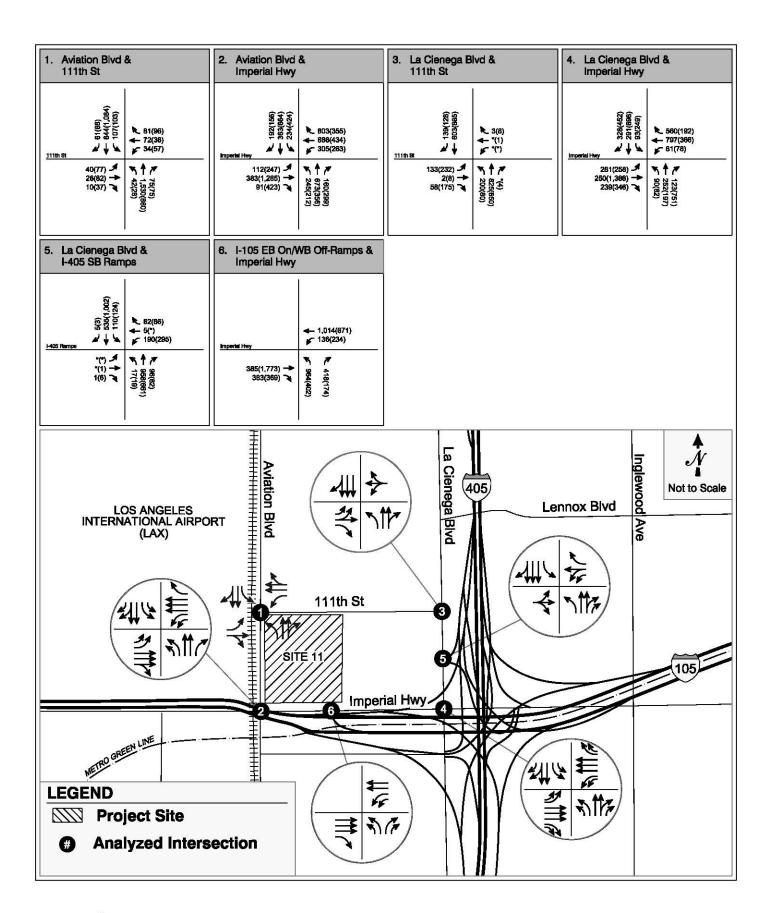
LOCATION OF ANALYZED INTERSECTIONS SITE 14: ARBOR VITAE/BELLANCA



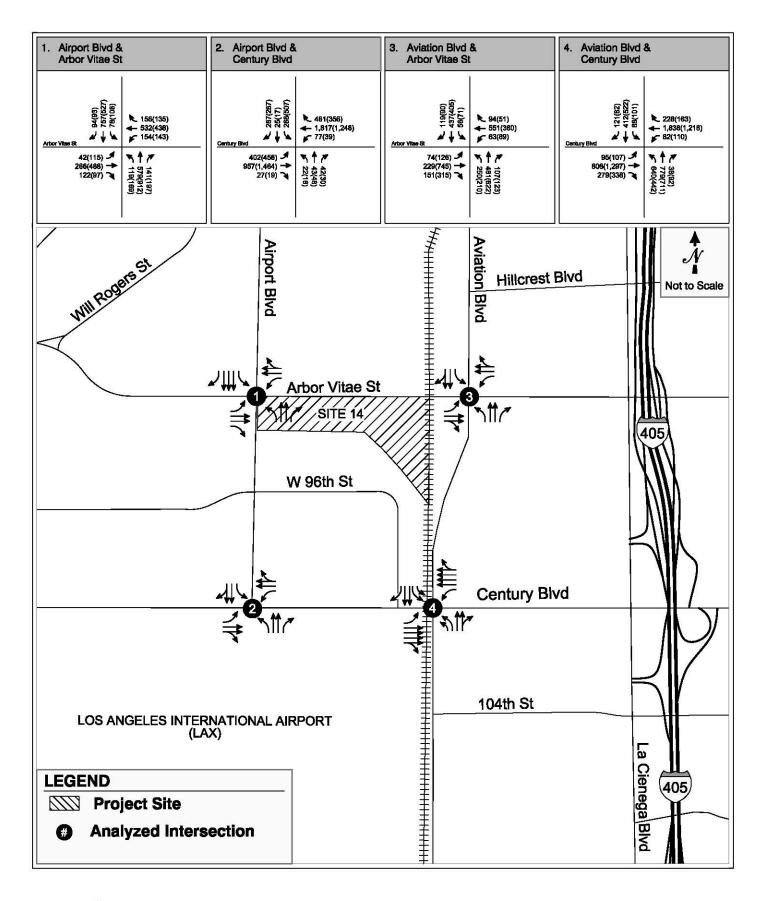




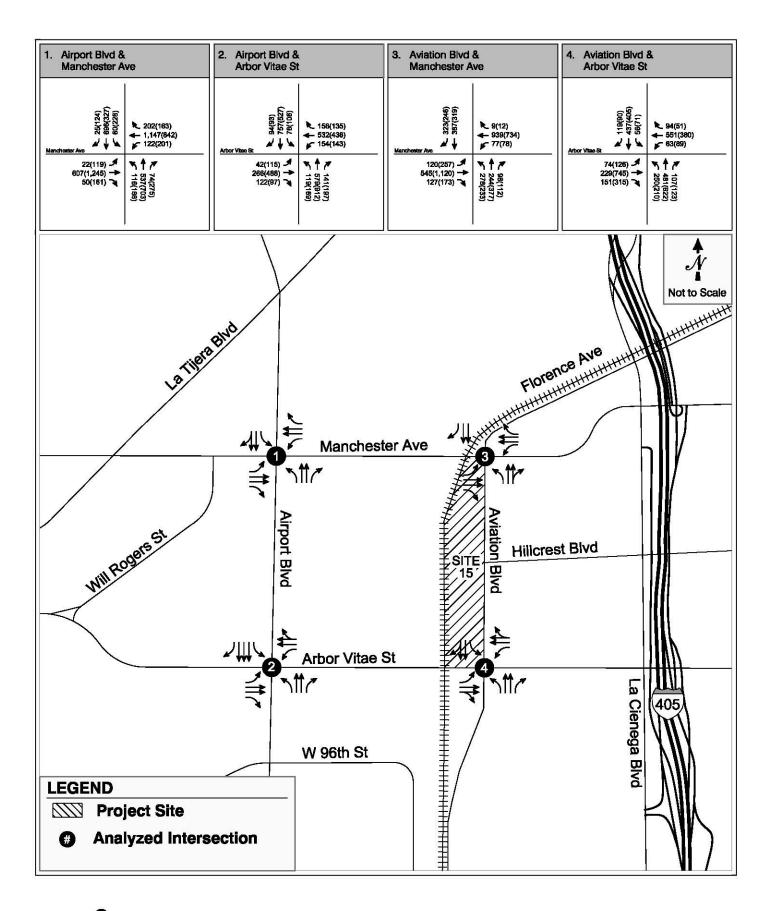




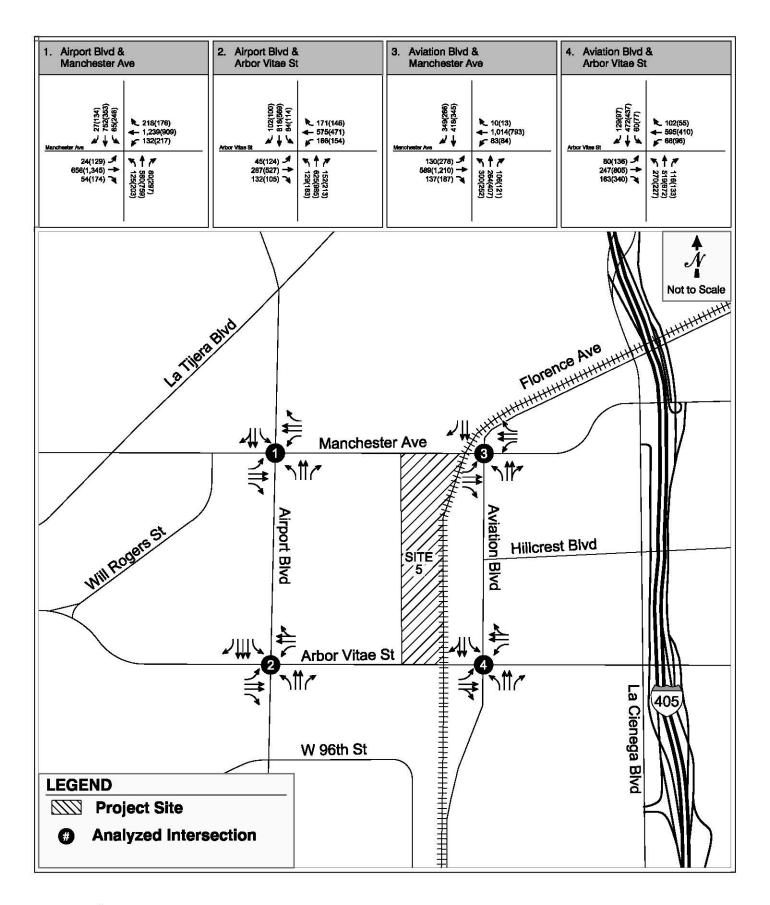






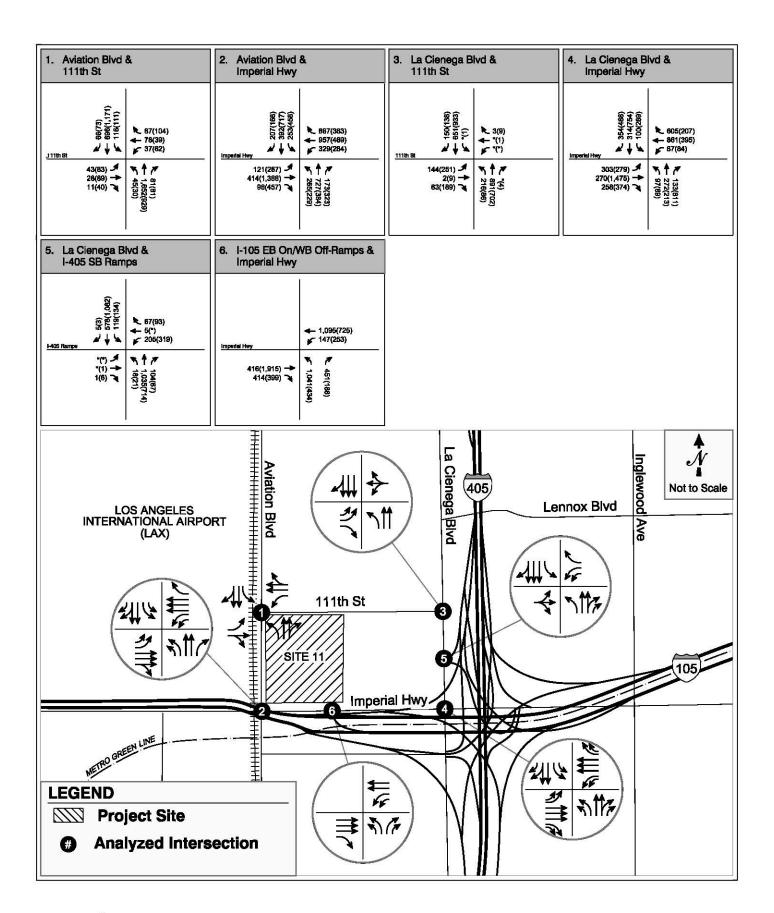






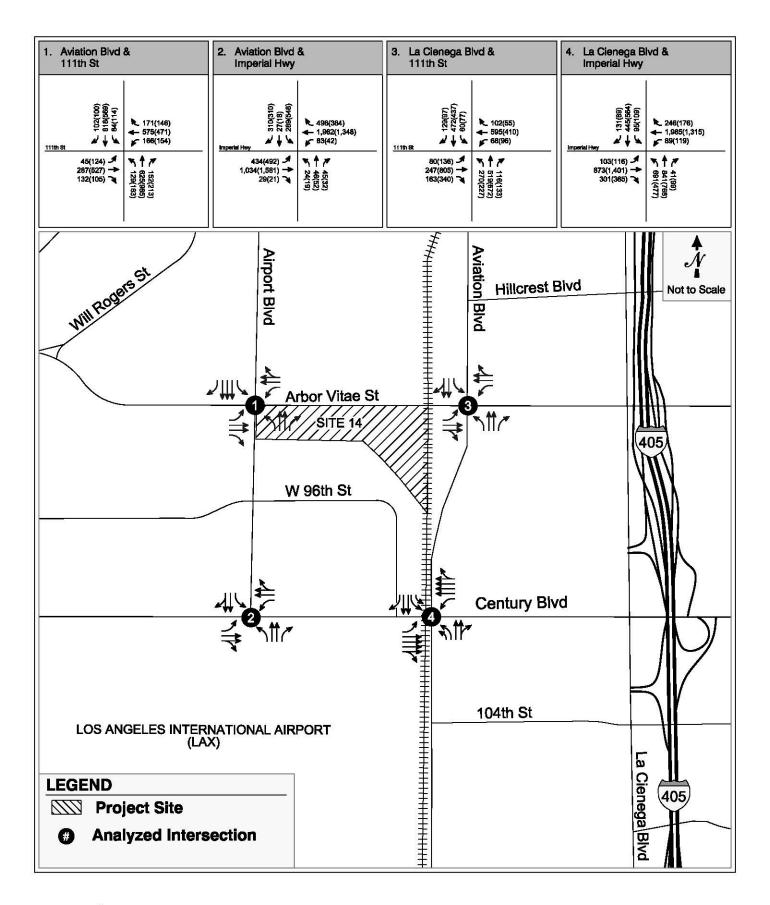


FUTURE (YEAR 2018) BASE TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 5: MANCHESTER/PORTAL



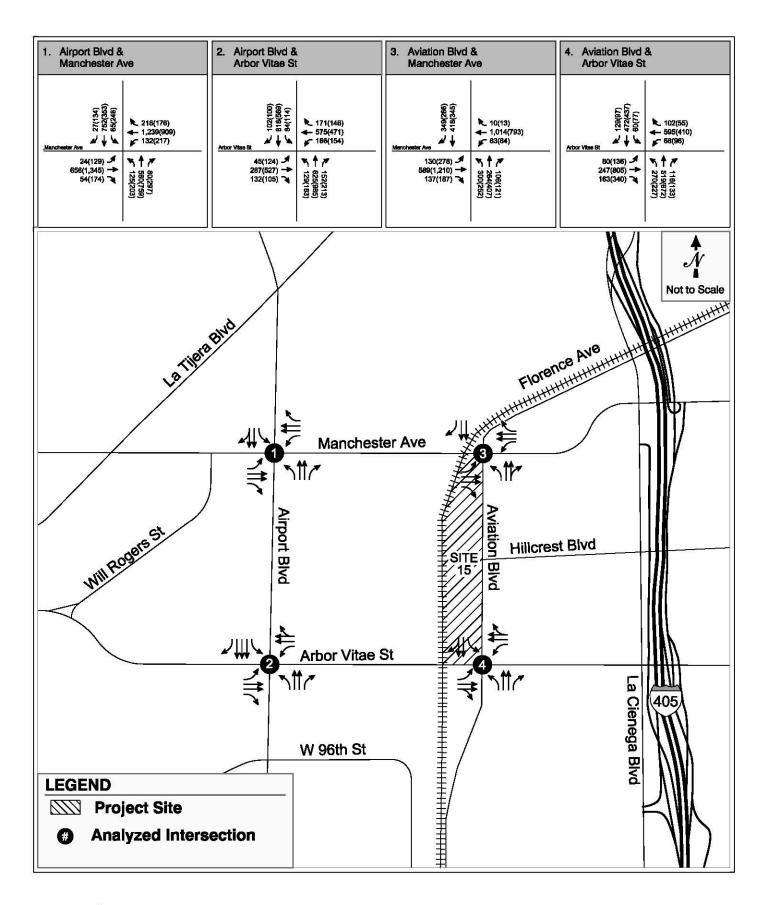


FUTURE (YEAR 2018) BASE TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 11: IMPERIAL/AVIATION





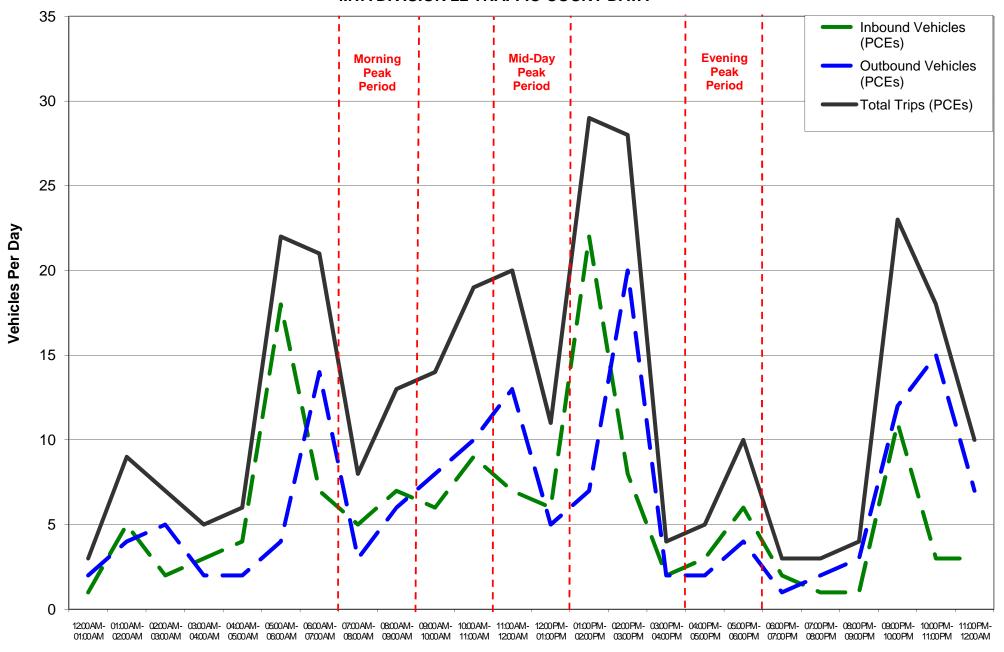
FUTURE (YEAR 2018) BASE TRAFFIC VOLUMES
AND LANE CONFIGURATIONS
SITE 14: ARBOR VITAE/BELLANCA





FUTURE (YEAR 2018) BASE TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 15: MANCHESTER/AVIATION

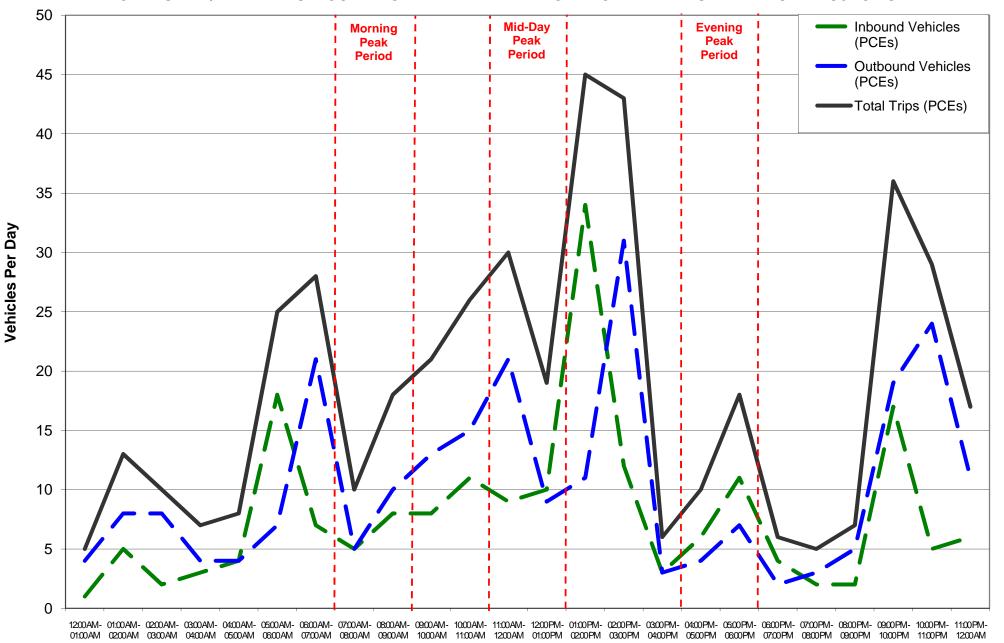
FIGURE 18
MTA DIVISION 22 TRAFFIC COUNT DATA



Time of Day

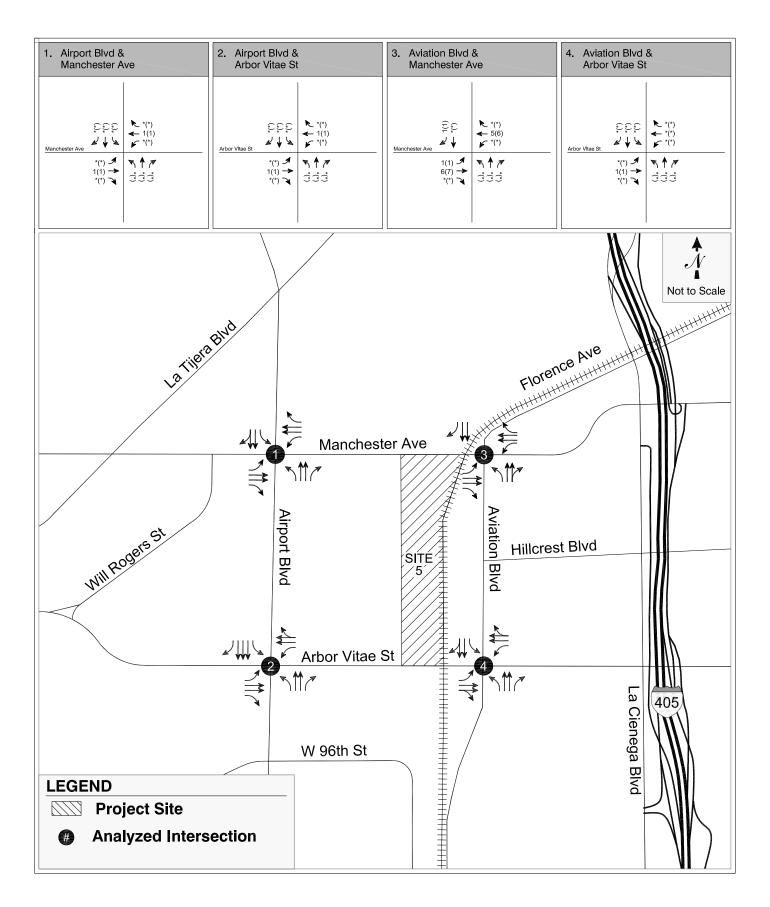
Traffic count conducted on Thursday, June 10, 2010 at MTA Division 22 Metro Green Line O & M Facility located at 14724 Aviation Blvd, Lawndale, CA 90260 PCEs - Passenger Car Equivalent

FIGURE 19
CRENSHAW/LAX TRANSIT CORRIDOR LRT MAINTAINANCE FACILITY TRIP GENERATION PROJECTION



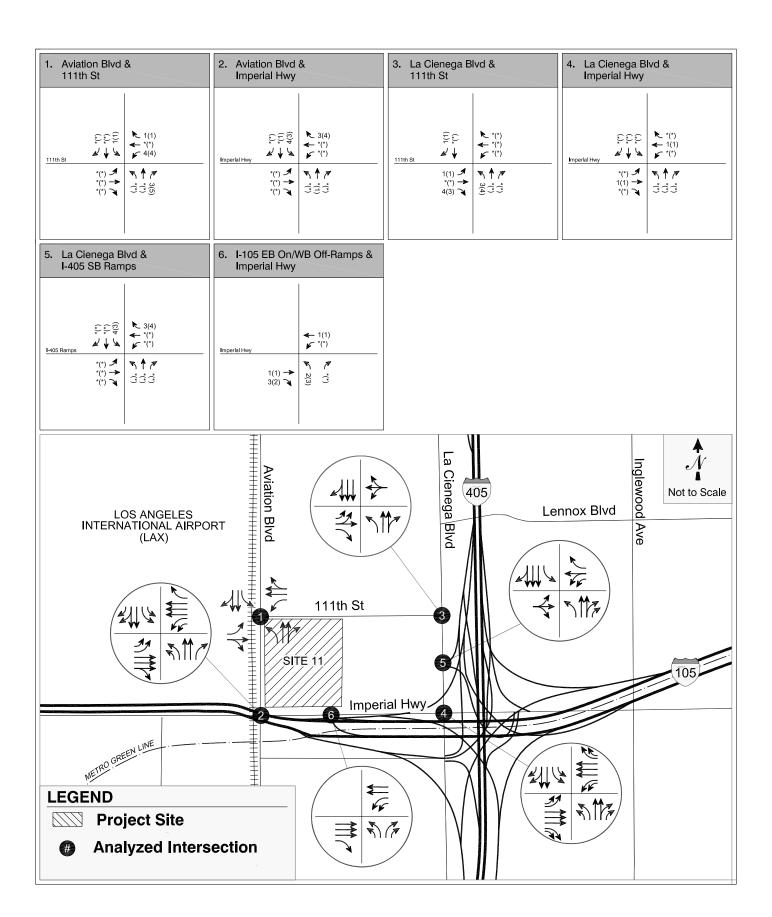
Time of Day

Traffic projections based on Traffic counts collected at MTA Division 22 Metro Green Line O & M Facility located at 14724 Aviation Blvd, Lawndale, CA 90260 PCEs - Passenger Car Equivalent



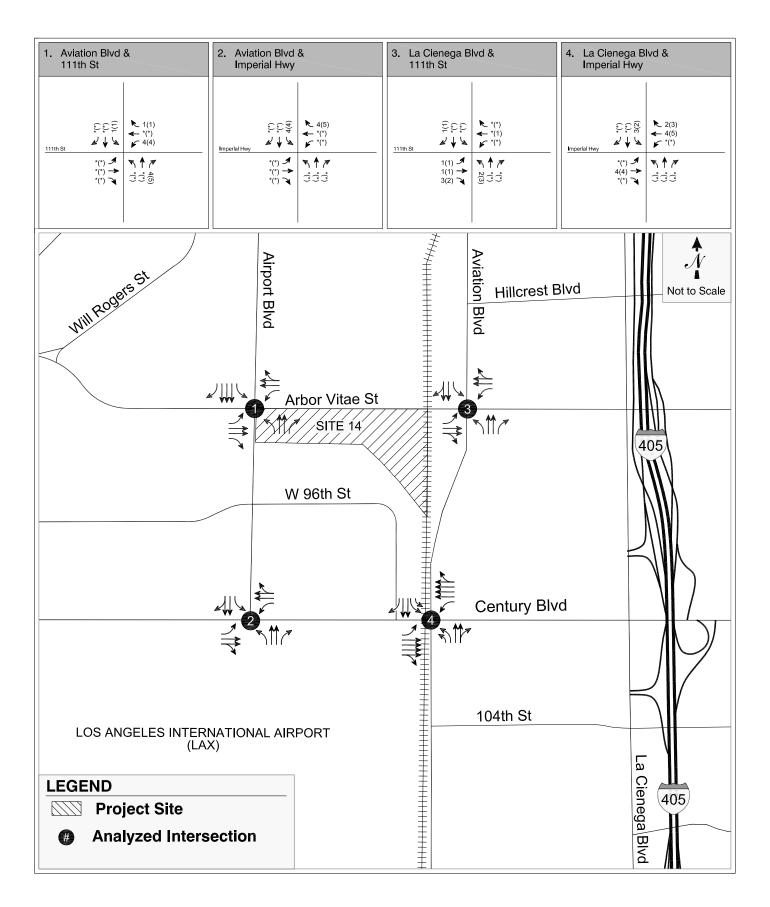


PROJECT ONLY TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 5: MANCHESTER/PORTAL



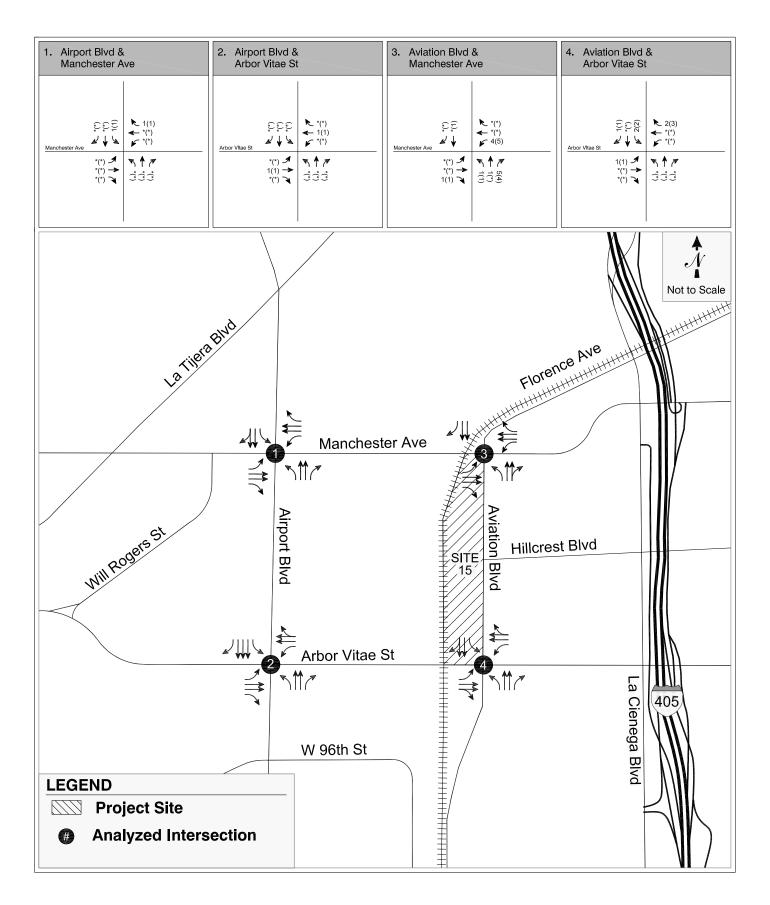


PROJECT ONLY TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 11: IMPERIAL/AVIATION



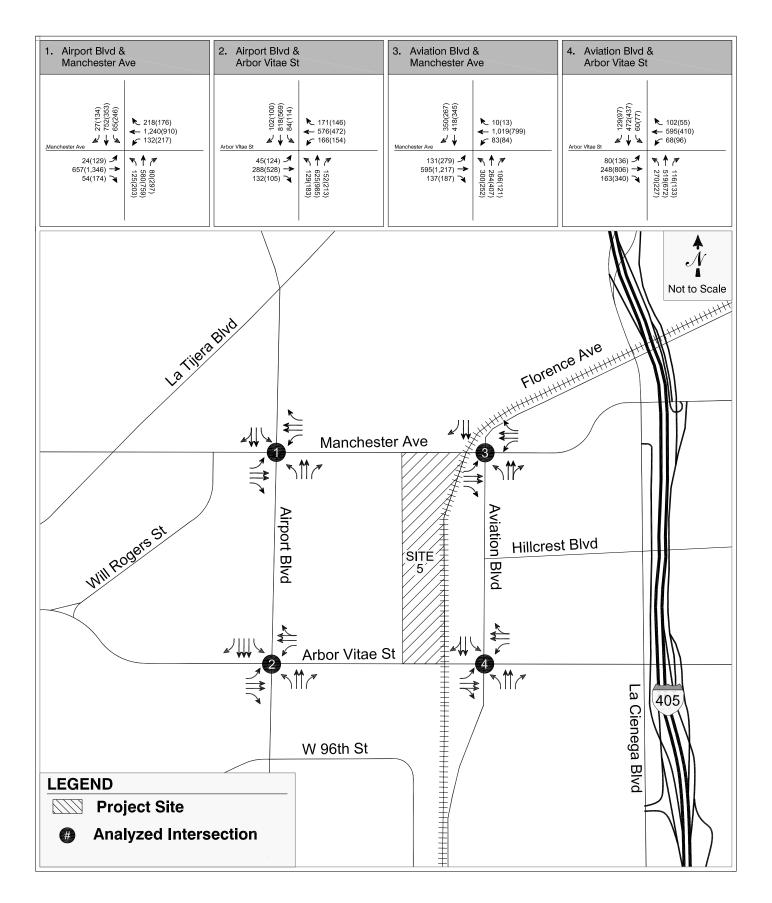


PROJECT ONLY TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 14: ARBOR VITAE/BELLANCA



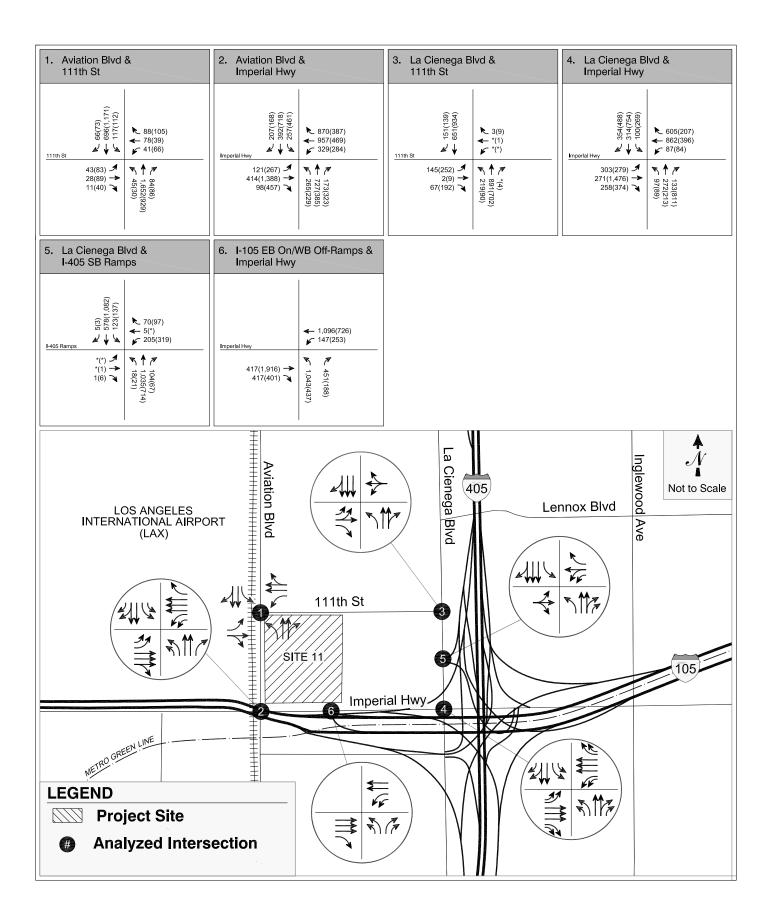


PROJECT ONLY TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 15: MANCHESTER/AVIATION



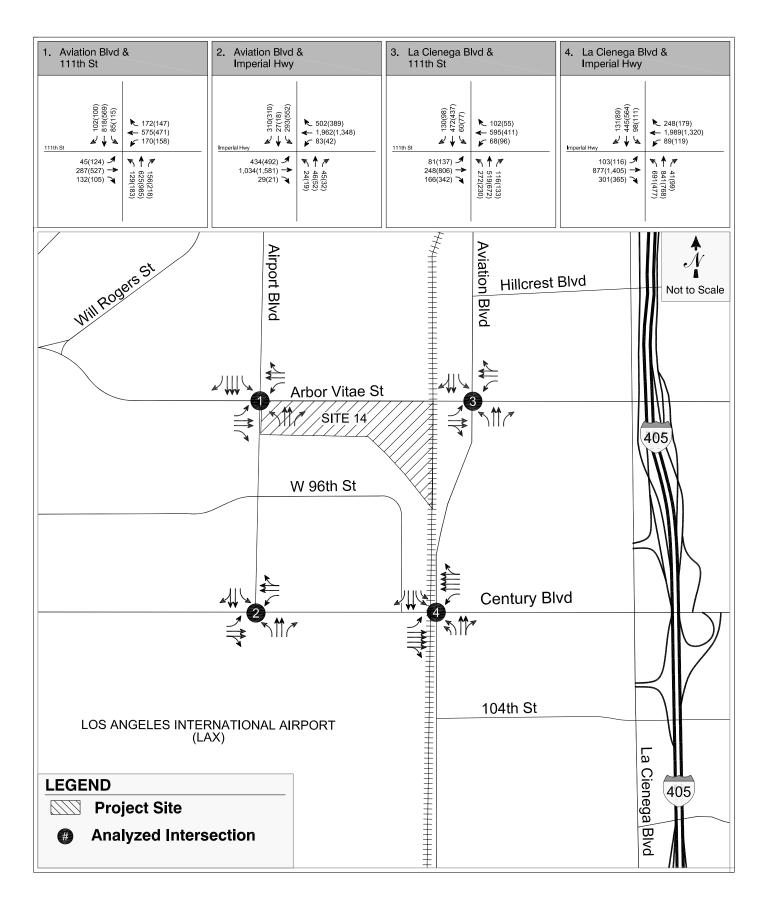


FUTURE (YEAR 2018) PLUS PROJECT TRAFFIC VOLUMES AND LANE CONFIGURATIONS SITE 5: MANCHESTER/PORTAL



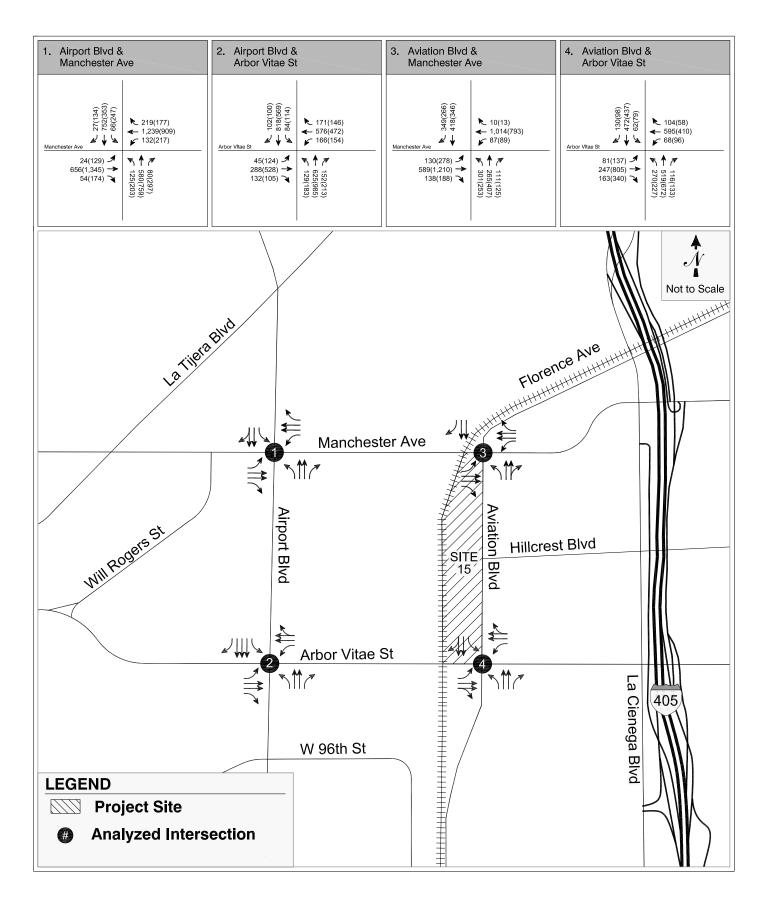


FUTURE (YEAR 2018) PLUS PROJECT TRAFFIC VOLUMES
AND LANE CONFIGURATIONS
SITE 11: IMPERIAL/AVIATION





FUTURE (YEAR 2018) PLUS PROJECT TRAFFIC VOLUMES
AND LANE CONFIGURATIONS
SITE 14: ARBOR VITAE/BELLANCA





FUTURE (YEAR 2018) PLUS PROJECT TRAFFIC VOLUMES
AND LANE CONFIGURATIONS
SITE 15: MANCHESTER/AVIATION

TABLE 1
LEVEL OF SERVICE DEFINITIONS FOR SIGNALIZED INTERSECTIONS

Lavalat Carria	Volume/Capacity	Definition
Level of Service	Ratio	Definition
А	0.000 - 0.600	EXCELLENT. No vehicle waits longer than one red light and no approach phase is fully used.
В	0.601 - 0.700	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.
С	0.701 - 0.800	GOOD. Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	0.801 - 0.900	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	0.901 - 1.000	POOR. Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	>1.000	FAILURE. Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.

Source: Highway Capacity Manual, Special Report 209, Transportation Research Board, 1994.

TABLE 2
EXISTING BASE YEAR (2010) INTERSECTION LEVEL OF SERVICE ANALYSIS

	Existing Bas	e Year	
	Peak	(Year 2010) Es	
Intersection	Hour	V/C or Delay	LOS
SITE !	5		
*1 Manchester Av	A.M.	0.680	B
Airport Bl	P.M.	0.921	E
*2 Arbor Vitae St	A.M.	0.451	A
Airport Bl	P.M.	0.600	A
*3 Manchester Av	A.M.	0.723	СВ
Aviation Bl	P.M.	0.650	
*4 Arbor Vitae St	A.M.	0.517	A
Aviation Bl	P.M.	0.618	B
SITE 1	1		
*1 111th St	A.M.	0.615	B
Aviation Bl	P.M.	0.431	A
*2 Imperial Hwy	A.M.	0.821	D
Aviation Bl	P.M.	0.754	C
*3 111th St	A.M.	0.264	A
La Cienega Bl	P.M.	0.311	A
*4 Imperial Hwy	A.M.	0.404	A
La Cienega Bl	P.M.	0.647	B
*5 I-405 SB On/Off Ramps	A.M.	0.400	A
La Cienega Bl	P.M.	0.344	A
*6 Imperial Hwy	A.M.	0.628	B
I-105 EB-On/WB-Off Ramps	P.M.	0.560	A
SITE 1	4		
*1 Arbor Vitae St	A.M.	0.451	A
Airport Bl	P.M.	0.600	A
*2 Century BI	A.M.	0.535	A
Airport BI	P.M.	0.464	A
*3 Arbor Vitae St	A.M.	0.517	A
Aviation Bl	P.M.	0.618	B
*4 Century BI	A.M.	0.751	C
Aviation BI	P.M.	0.644	B
SITE 1	5		
*1 Manchester Av	A.M.	0.680	B
Airport Bl	P.M.	0.921	E
*2 Arbor Vitae St	A.M.	0.451	A
Airport Bl	P.M.	0.600	A
*3 Manchester Av	A.M.	0.723	C
Aviation Bl	P.M.	0.650	B
*4 Arbor Vitae St	A.M.	0.517	A
Aviation BI	P.M.	0.618	B

Notes: Intersections analyzed using Critical Movement Analysis (CMA) methodology.

^{*} Intersection is currently operating under ATSAC & ATCS system.

TABLE 3
TRAFFIC DATA FROM MTA DIVISION 22 SURVEY

Traffic counts data by Each Hour of the Day

Time Period	Inbound (PCEs) [1]	Outbound (PCEs) [1]	Total (PCEs) [1]
12:00 AM - 01:00 AM	1	2	3
01:00 AM - 02:00 AM	5	4	9
02:00 AM - 03:00 AM	2	5	7
03:00 AM - 04:00 AM	3	2	5
04:00 AM - 05:00 AM	4	2	6
05:00 AM - 06:00 AM	18	4	22
06:00 AM - 07:00 AM	7	14	21
07:00 AM - 08:00 AM	5	3	8
08:00 AM - 09:00 AM	7	6	13
09:00 AM - 10:00 AM	6	8	14
10:00 AM - 11:00 AM	9	10	19
11:00 AM - 12:00 AM	7	13	20
12:00 PM - 01:00 PM	6	5	11
01:00 PM - 02:00 PM	22	7	29
02:00 PM - 03:00 PM	8	20	28
03:00 PM - 04:00 PM	2	2	4
04:00 PM - 05:00 PM	3	2	5
05:00 PM - 06:00 PM	6	4	10
06:00 PM - 07:00 PM	2	1	3
07:00 PM - 08:00 PM	1	2	3
08:00 PM - 09:00 PM	1	3	4
09:00 PM - 10:00 PM	11	12	23
10:00 PM - 11:00 PM	3	15	18
11:00 PM - 12:00 AM	3	7	10
TOTAL	142	153	295

Morning Peak Period	7:00 - 8:00	7:15 - 8:15	7:30 - 8:30	7:45-8:45	8:00 - 9:00
Trips (PCEs) [1]	8	9	8	11	13
Evening Peak Period	4:00 - 5:00	4:15 - 5:15	4:30 - 5:30	4:45 - 5:45	5:00 - 6:00
Trips (PCEs) [1]	5	6	10	11	10

	Inbound	Outbound	Total
Morning Peak Hour Trips (PCEs)	7	6	13
Evening Peak Hour Trips (PCEs)	6	5	11

Note:

Source: 24-hour classified video counts were conducted on Thursday June 10, 2010 at Metro Division 22 Green Line LRT Maintenance Facility located at 14724 Aviation Boulevard, Lawndale, California.

[1] - A Passenger Car Equivalent (PCE) factor of 2.0 was applied to truck count

TABLE 4
PROPOSED CRENSHAW O & M FACILITY TRIP GENERATION PROJECTIONS

Traffic Projection by Each Hour of the Day [2]

Time Period	Inbound (PCEs) [1]	Outbound (PCEs) [1]	Total (PCEs) [1]
12:00 AM - 01:00 AM	1	4	5
01:00 AM - 02:00 AM	5	8	13
02:00 AM - 03:00 AM	2	8	10
03:00 AM - 04:00 AM	3	4	7
04:00 AM - 05:00 AM	4	4	8
05:00 AM - 06:00 AM	18	7	25
06:00 AM - 07:00 AM	7	21	28
07:00 AM - 08:00 AM	5	5	10
08:00 AM - 09:00 AM	8	10	18
09:00 AM - 10:00 AM	8	13	21
10:00 AM - 11:00 AM	11	15	26
11:00 AM - 12:00 AM	9	21	30
12:00 PM - 01:00 PM	10	9	19
01:00 PM - 02:00 PM	34	11	45
02:00 PM - 03:00 PM	12	31	43
03:00 PM - 04:00 PM	3	3	6
04:00 PM - 05:00 PM	6	4	10
05:00 PM - 06:00 PM	11	7	18
06:00 PM - 07:00 PM	4	2	6
07:00 PM - 08:00 PM	2	3	5
08:00 PM - 09:00 PM	2	5	7
09:00 PM - 10:00 PM	17	19	36
10:00 PM - 11:00 PM	5	24	29
11:00 PM - 12:00 AM	6	11	17
Total	193	249	442

Morning Peak Period	7:00 - 8:00	7:15 - 8:15	7:30 - 8:30	7:45-8:45	8:00 - 9:00
Trips (PCEs) [1]	10	12	11	15	18

Evening Peak Period	4:00 - 5:00	4:15 - 5:15	4:30 - 5:30	4:45 - 5:45	5:00 - 6:00
Trips (PCEs) [1]	10	11	18	20	18

	Inbound	Outbound	Total
Morning Peak Hour Trips (PCEs)	8	10	18
Evening Peak Hour Trips (PCEs)	11	9	20

Note:

[2] - Metro Division 22 LRT Maintenance Facility currently serves 39-LRV fleet. AM and PM peak hour traffic was adjusted with a factor of 1.54 (60/39) to adjust for the 60 LRV service capacity that are proposed at the Crenshaw/LAX Transit Corridor LRT Maintenance Facility.

^{[1] -} A Passenger Car Equivalent (PCE) factor of 2.0 was applied to truck count

TABLE 5 FUTURE (YEAR 2018) INTERSECTION LEVEL OF SERVICE AND SIGNIFICANT IMPACT ANALYSIS

	Peak	Future Base (Without F		Future Base (With Pro		Change in	Significant
Intersection	Hour	V/C or Delay	LOS	V/C or Delay	LOS	V/C	Impact?
		S	ITE 5			<u>'</u>	
*1 Manchester Av	A.M.	0.743	C	0.743	C	0.000	NO
Airport Bl	P.M.	1.003	F	1.003	F	0.000	NO
*2 Arbor Vitae St	A.M.	0.496	A	0.497	A	0.001	NO
Airport BI	P.M.	0.656	В	0.656	В	0.000	NO
*3 Manchester Av	A.M.	0.788	C	0.791	C	0.003	NO
Aviation Bl	P.M.	0.710	C	0.713	C	0.003	NO
*4 Arbor Vitae St	A.M.	0.567	A	0.567	A	0.000	NO
Aviation Bl	P.M.	0.675	B	0.675	B	0.000	NO
		SI	TE 11			U	
*1 111th St	A.M.	0.672	B	0.673	B	0.001	NO
Aviation BI	P.M.	0.475	A	0.475	A	0.000	NO
*2 Imperial Hwy	A.M.	0.894	D	0.897	D	0.003	NO
Aviation Bl	P.M.	0.822	D	0.824	D	0.002	NO
*3 111th St	A.M.	0.292	A	0.295	A	0.003	NO
La Cienega Bl	P.M.	0.344	A	0.349	A	0.005	NO
*4 Imperial Hwy	A.M.	0.444	A	0.444	A	0.000	NO
La Cienega Bl	P.M.	0.707	C	0.707	C	0.000	NO
*5 I-405 SB On/Off Ramps	A.M.	0.440	A	0.443	A	0.003	NO
La Cienega Bl	P.M.	0.379	A	0.381	A	0.002	NO
*6 Imperial Hwy	A.M.	0.687	B	0.687	B	0.000	NO
I-105 EB-On/WB-Off Ramps	P.M.	0.613	B	0.640	B	0.027	NO
		SI	TE 14			<u>II</u>	
*1 Arbor Vitae St	A.M.	0.496	A	0.497	A	0.001	NO
Airport BI	P.M.	0.656	B	0.657	B	0.001	NO
*2 Century BI	A.M.	0.587	A	0.587	A	0.000	NO
Airport BI	P.M.	0.509	A	0.509	A	0.000	NO
*3 Arbor Vitae St	A.M.	0.567	A	0.569	A	0.002	NO
Aviation Bl	P.M.	0.675	B	0.679	B	0.004	NO
*4 Century BI	A.M.	0.819	D	0.820	D	0.001	NO
Aviation BI	P.M.	0.704	C	0.704	C	0.000	NO
		SI	TE 15	•		•	
*1 Manchester Av	A.M.	0.743	C	0.743	C	0.000	NO
Airport BI	P.M.	1.003	F	1.003	F	0.000	NO
*2 Arbor Vitae St	A.M.	0.496	A	0.497	A	0.001	NO
Airport Bl	P.M.	0.656	B	0.656	B	0.000	NO
*3 Manchester Av	A.M.	0.788	C	0.789	C	0.001	NO
Aviation BI	P.M.	0.710	C	0.715	C	0.005	NO
*4 Arbor Vitae St	A.M.	0.567	A	0.568	A	0.001	NO
Aviation BI	P.M.	0.675	B	0.676	B	0.001	NO

Notes: Intersections analyzed using Critical Movement Analysis (CMA) methodology.

* Intersection is currently operating under ATSAC & ATCS system.

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2006 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Carl	on Mono	oxide a)					Ozone b)						Nitrog	en Dioxide	c)		Sulfu	· Dioxide d)	
	2006									No	. Days St	andard E	xceeded									
				Max.	Max		Max.	Max.	Fourth	Health						Max	Max	Annual		Max.	Max.	Annual
			No.	Conc.	Conc.	No.	Conc.	Conc.	High	Advisory	Fee	deral	St	tate	No.	Conc.	Conc.	Average	No.	Conc.	Conc.	Average
	_ 0 0 0		Davs	in	in	Days	in	in	Conc.	≥ 0.15		> 0.08	> 0.09		Days	in	in	AAM	Days	in	in	AAM
Source	e/Receptor Area	Station	of	ppm	ppm	of	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	of	ppm	ppm	Conc.	of	ppm	ppm	Conc.
No.	Location	No.	Data	1-hour	8-hour	Data	1-hour	8-hour	8-hour	1-hour	1-hour		1-hour		Data	1-hour	24-hour	ppm	Data	1-hour	24-hour	ppm
	ANGELES COUNTY	110.	Dutt	1 Hour	o nour	Duu	1 Hour	o nour	o nour	1 Hour	1 Hour	o nour	1 11041	o nour	Dun	1 Hour	2 · nour	PP···	Dutt	1 Hour	2.11041	PP···
1	Central LA	087	362	3	2.6	362	0.11	0.079	0.077	0	0	0	8	4	360	0.11	0.06	0.0288	365	0.03	0.006	0.0019
2	Northwest Coastal LA County	091	365	3	2.0	365	0.11	0.074	0.069	0	0	0	3	0	365	0.08	0.05	0.0233				0.0017
3	Southwest Coastal LA County	820	363	3	2.3	360	0.10	0.066	0.062	0	0	0	0	0	351	0.10	0.05	0.0175	363	0.02	0.006	0.0020
4	South Coastal LA County 1	072	360	4	3.4	364	0.08	0.058	0.058	0	0	0	0	0	357	0.10	0.05	0.0215	364	0.03	0.010	0.0012
4	South Coastal LA County 2	077																				
6	West San Fernando Valley	074	365	5	3.4	361	0.16	0.108	0.105	1	6	17	32	39	363	0.07	0.04	0.0174				
7	East San Fernando Valley	069	365	4	3.5	365	0.17	0.128	0.099	2	6	12	25	23	365	0.10	0.05	0.0274	360	0.01	0.004	0.0006
8	West San Gabriel Valley	088	360	4	2.8	365	0.15	0.117	0.095	1	5	7	25	24	365	0.12	0.06	0.0245				
9	East San Gabriel Valley 1	060	365	2	1.7	364	0.17	0.120	0.091	2	7	10	23	19	365	0.11	0.07	0.0258				
9	East San Gabriel Valley 2	591	363	2	2.0	363	0.18	0.128	0.107	2	10	15	37	31	362	0.10	0.06	0.0206				
10	Pomona/Walnut Valley	075	365	3	2.1	365	0.15	0.128	0.109	2	9	16	32	30	365	0.10	0.06	0.0307				
11	South San Gabriel Valley	085	232*	3*	2.7*	250*	0.13*	0.095*	0.080*	0*	1*	3*	9*	5*	204*	0.10*	0.06*	0.0283*				
12	South Central LA County	084	365	8	6.4	365	0.09	0.066	0.064	0	0	0	0	0	363	0.14	0.08	0.0306				
13	Santa Clarita Valley	090	363	2	1.3	359	0.16	0.120	0.112	1	20	40	62	64	359	0.08	0.04	0.0184				
ORA	NGE COUNTY																					
16	North Orange County	3177	362	6	3.0	362	0.15	0.114	0.092	1	3	4	8	9	361	0.09	0.05	0.0224				
17	Central Orange County	3176	365	5	3.0	365	0.11	0.088	0.072	0	0	1	5	3	343	0.11	0.06	0.0197				
18	North Coastal Orange County	3195	365	4	3.0	365	0.07	0.064	0.062	0	0	0	0	0	361	0.10	0.05	0.0145	353	0.01	0.004	0.0013
19	Saddleback Valley	3812	365	2	1.8	356	0.12	0.105	0.092	0	0	6	13	17								
RIV	ERSIDE COUNTY																					
22	Norco/Corona	4155																				
23	Metropolitan Riverside County 1	4144	365	3	2.1	365	0.15	0.116	0.113	1	8	30	45	59	365	0.08	0.05	0.0199	365	0.01	0.004	0.0013
23	Metropolitan Riverside County 2	4146	365	4	2.3																	
23	Mira Loma	5214	364	4	2.7	364	0.16	0.119	0.107	1	4	25	39	48	332	0.08	0.05	0.0194				
24	Perris Valley	4149				351	0.17	0.122	0.114	3	12	53	76	84					<u>_</u>			
25	Lake Elsinore	4158	362	1	1.0	362	0.14	0.109	0.102	0	3	24	40	58	352	0.07	0.05	0.0151				
29	Banning Airport	4164				357	0.14	0.115	0.104	0	8	44	57	78	355	0.11	0.04	0.0161				
30	Coachella Valley 1**	4137	365	2	1.0	361	0.13	0.109	0.101	0	2	23	37	67	359	0.09	0.05	0.0103				
30	Coachella Valley 2**	4157				364	0.10	0.089	0.087	0	0	7	4	29								
SAN	BERNARDINO COUNTY																					
32	Northwest San Bernardino Valley	5175	360	3	1.8	365	0.17	0.130	0.114	2	14	25	50	54	337	0.10	0.07	0.0310				
33	Southwest San Bernardino Valley	5817																				
34	Central San Bernardino Valley 1	5197	365	3	2.0	361	0.16	0.123	0.116	1	12	29	47	49	362	0.09	0.06	0.0270	365	0.01	0.003	0.0019
34	Central San Bernardino Valley 2	5203	364	3	2.3	362	0.15	0.127	0.119	3	10	29	52	57	362	0.09	0.05	0.0252				
35	East San Bernardino Valley	5204				365	0.16	0.135	0.125	5	11	36	60	64								
37	Central San Bernardino Mountains	5181				365	0.16	0.142	0.112	2	9	59	71	96								
38	East San Bernardino Mountains	5818																				
	DISTRICT MAXIMUM			8	6.4		0.18	0.142	0.125	5	20	59	76	96		0.14	0.08	0.0310		0.03	0.010	0.0020
	SOUTH COAST AIR BASIN			8	6.4		0.18	0.142	0.125	10	35	86	102	121		0.14	0.08	0.0310		0.03	0.010	0.0020

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

* Less than 12 full months of data. May not be representative.

** Salton Sea Air Basin.



The map showing the locations of source/receptor areas can be accessed via the Internet at http://www.aqmd.gov/telemweb/areamap.aspx. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. The 8-hour average California ozone standard of 0.07 ppm was established effective May 17, 2006.

c) - The state standard is 1-hour average NO₂ > 0.25 ppm. The federal standard is annual arithmetic mean NO₂ > 0.0534 ppm. Air Resources Board has approved to lower the NO₂ 1-hour standard to 0.18 ppm and establish a new annual standard of 0.030 ppm. The revisions are expected to become effective later in 2007.

d) - The state standards are 1-hour average $SO_2 > 0.25$ ppm and 24-hour average $SO_2 > 0.04$ ppm. The federal standards are annual arithmetic mean $SO_2 > 0.03$ ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO_2 standards were not exceeded.

2006 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Suspen	ded Particula	ates PM10 e)				Fine Particu	lates PM2.5	; f)		Pa	rticulates T	(SPg)	Le	adg)	Su	lfate g)
2006				No. (%)	Samples					No. (%)	Samples							No.	(%) Samples
				Exce	eeding				98th	Excee	eding								Exceeding
			Max.	Star	ndard	Annual		Max.	Percentile	Standard	Standard	Annual		Max.	Annual	Max.	Max.	Max.	Standard
		No.	Conc.	Federal	State	Average	No.	Conc.	Conc.	Federal i)	Federal i)	Averages	No.	Conc.	Average	Monthly	Quarterly	Conc.	State
		Days	in	> 150	> 50	AAM h)	Days	in	in	> 35	> 65	AAMj)	Days	in	AAM	Average	Average	in	≥ 25
Source/Receptor Area	Station	of	μg/m ³	$\mu g/m^3$	μg/m ³	Conc.	of	$\mu g/m^3$	μg/m ³	$\mu g/m^3$	$\mu g/m^3$	Conc.	of	μg/m ³	Conc.	Conc.k)	Conc. k)	μg/m ³	μg/m ³
No. Location	No.	Data	24-hour	24-hour	24-hour	$\mu g/m^3$	Data	24-hour	24-hour	24-hour	24-hour	$\mu g/m^3$	Data	24-hour	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	24-hour	24-hour
LOS ANGELES COUNTY																			
1 Central LA	087	59	59	0	3(5.1)	30.3	330	56.2	38.9	11(3.3)	0	15.6	59	109	63.3	0.02	0.01	18.2	0
Northwest Coastal LA CountySouthwest Coastal LA County	091 820	51	 45	0	0	26.5							56 56	76 84	40.2 43.1	0.01	0.01	12.2 13.6	0
4 South Coastal LA County 1	072	61	78	0	6(9.8)	31.1	290*	58.5*	34.9*	5(1.7)*	0*	14.2*	62	157	62.9	0.01	0.01	17.8	0
4 South Coastal LA County 2	077	58	117	ő	19(32.7)	45.0	320	53.6	35.3	6(1.9)	0	14.5	59	192	71.1	0.01	0.01	18.8	0
6 West San Fernando Valley	074						92	44.1	32.0	1(1.1)	0	12.9							
7 East San Fernando Valley	069	54	71	0	10(18.5)	35.6	104	50.7	43.4	6(5.8)	0	16.6							
8 West San Gabriel Valley	088						113	45.9	32.1	1(0.9)	0	13.4	60	123	42.8			28.7	1(1.7)
9 East San Gabriel Valley 1	060	58	81	0	7(12.1)	31.9	278*	52.8*	38.5*	8(2.9)*	0*	15.5*	59	142	68.4			20.8	0
9 East San Gabriel Valley 2	591																		
10 Pomona/Walnut Valley	075 085							72.2		7(6)	1(0.0)	167	 58	760	 79.3	0.02	0.02	20.6	1/1.7)
South San Gabriel ValleySouth Central LA County	085						116 107	55.0	43.1 44.5	7(6) 4(3.7)	1(0.9) 0	16.7 16.7	58	768 147	79.3 68.4	0.03 0.02	0.02	28.6 24.1	1(1.7) 0
13 Santa Clarita Valley	090	58	53	0	1(1.7)	23.4		33.0								0.02		24.1	
ORANGE COUNTY	070	50	33		1(1.7)	23.4													
16 North Orange County	3177																		
17 Central Orange County	3176	56	104	0	7(12.5)	33.4	330	56.2	40.5	8(2.4)	0	14.1							
18 North Coastal Orange County	3195																		
19 Saddleback Valley	3812	50	57	0	1(2.0)	22.8	106	47.0	25.7	1(0.9)	0	11.0							
RIVERSIDE COUNTY																			
22 Norco/Corona	4155	57	74	0	10(17.5)	36.5													
23 Metropolitan Riverside County 1	4144	118	109	0	71(60.2)	54.4	300	68.5	53.7	32(10.7)	1(0.3)	19.0	59	169	91.2	0.01	0.01	10.8	0
23 Metropolitan Riverside County 2	4146		124		41(60.5)		105	55.3	47.7	9(8.6)	0	17.0	59	131	72.9	0.01	0.01	9.9	0
23 Mira Loma 24 Perris Valley	5214 4149	59 54	124 125	0	41(69.5) 19(35.2)	64.0 45.0	113	63.0	52.5	14(12.4)	0	20.6							
25 Lake Elsinore	4158																		
29 Banning Airport	4164	55	75	0	8(14.6)	31.1													
30 Coachella Valley 1**	4137	57	73+	0+	2(3.5)+	24.5+	111	24.8	15.9	0	0	7.7							
30 Coachella Valley 2**	4157	115	122+	0+	57(49.6)+	52.7+	107	24.3	19.1	0	0	9.5							
SAN BERNARDINO COUNTY																			
32 Northwest San Bernardino Valley	5175												58	105	54.6	0.01	0.01	9.1	0
33 Southwest San Bernardino Valley	5817	62	78	0	17(27.4)	42.3	107	53.7	41.5	7(6.5)	0	18.5							
34 Central San Bernardino Valley 1	5197	60	142	0	31(51.7)	53.5	112	52.6	43.8	7(6.3)	0	17.6	59	190	101.0			10.3	0
34 Central San Bernardino Valley 2	5203	57	92	0	24(42.1)	46.0	102	55.0	48.4	8(7.8)	0	17.8	54	174	87.0	0.02	0.01	11.0	0
35 East San Bernardino Valley 37 Central San Bernardino Mountains	5204	60	103	0	12(20.0)	36.2													
37 Central San Bernardino Mountains 38 East San Bernardino Mountains	5181 5818	58	63	0	1(1.7)	26.2	42*	40.1*	40.1*	1(2.4)*	0*	11.2*							
DISTRICT MAXIMUM	2010		142+	0+	71	64.0	42	72.2	53.7	32	1	20.6		768	101.0	0.03	0.02	28.7	
			142+	0+	75	64.0		72.2	53.7	32	1	20.6		768	101.0	0.03	0.02	28.7	1
SOUTH COAST AIR BASIN			142+	U+	13	04.0	<u> </u>	14.4	33.1	34	1	20.0	<u> </u>	/00	101.0	0.03	0.02	20.7	1

μg/m³ - Micrograms per cubic meter of air

AAM - Annual Arithmetic Mean

-- - Pollutant not monitored

* Less than 12 full months of data. May not be representative.

** Salton Sea Air Basin. e) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

f) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

- g) Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.
- h) Federal annual PM10 standard (AAM > 50 μg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 μg/m³.
- i) U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m³ to 35 µg/m³; effective December 17, 2006.
- j) Federal PM2.5 standard is annual average (AAM) > $15 \mu g/m^3$. State standard is annual average (AAM) > $12 \mu g/m^3$.
- k) Federal lead standard is quarterly average > $1.5 \,\mu\text{g/m}^3$; and state standard is monthly average $\geq 1.5 \,\mu\text{g/m}^3$. No location exceeded lead standards. Maximum monthly and quarterly lead concentrations at special monitoring sites immediately downwind of stationary lead sources were 0.24 µg/m³ and 0.22 µg/m³, respectively, both recorded at Central Los Angeles.
- + The data for the samples collected on a high-wind day (July 16, 2006) at Palm Springs and Indio (226 µg/m³ and 313 µg/m³, respectively) were excluded in accordance with EPA's Natural Events Policy.



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2007 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

	Carb	Carbon Monoxide a) Ozone											Nitrogen Dioxide d)			Sulfur Dioxide ^{e)}						
2007										No. Days Standard Exceeded												
			Max.		Max		Max.	Max.	Fourth	Health	Federal ^{b)} State ^{c)}			te c)		Max	Annual		Max.	Max.	Annual	
	Statio	on No.	No.	Conc.	Conc.	No.	Conc.	Conc.	High	Advisory						No.	Conc.	Average	No.	Conc.	Conc.	Average
Source/Receptor Area			Days	in	in	Days	in	in	Conc.	≥ 0.15	> 0.12		> 0.075	> 0.09	> 0.070	Days	in	AAM	Days	in	in	AAM
No. Location	State Code	District Code	of Data	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	Conc.	of Data	ppm 1-hour	ppm 24-hour	Conc.
LOS ANGELES COUNTY																						
1 Central LA	70087	087	359	3	2.2	355	0.115	0.102	0.072	0	0	2	3	3	6	360	0.10	0.0299	351	0.01	0.003	0.0009
2 Northwest Coastal LA County	70091	091	365	3	1.9	360	0.117	0.087	0.067	0	0	1	2	2	2	353	0.08	0.0200				
3 Southwest Coastal LA County	70111	820	361	3	2.4	361	0.087	0.074	0.066	0	0	0	0	0	1	331*	0.08	0.0140	361	0.02	0.009	0.0028
4 South Coastal LA County 1	70072	072	347*	3	2.6	365	0.099	0.073	0.056	0	0	0	0	1	1	365	0.11	0.0207	365	0.11	0.011	0.0027
4 South Coastal LA County 2	70110	077																				
6 West San Fernando Valley	70074	074	358	4	2.8	358	0.129	0.104	0.092	0	1	8	28	21	43	358	0.08	0.0186				
7 East San Fernando Valley	70069	069	365	4	2.8	365	0.116	0.096	0.088	0	0	6	13	13	19	363	0.09	0.0289	365	0.01	0.003	0.0010
8 West San Gabriel Valley	70088	088	365	3	2.4	365	0.149	0.100	0.089	0	3	6	11	13	21	365	0.09	0.0246				
9 East San Gabriel Valley 1	70060	060	365	3	2.0	365	0.158	0.112	0.096	1 0	3	13	20	22	28	365	0.12	0.0253				
9 East San Gabriel Valley 2	70591	591	365	2	2.0	364	0.147	0.116	0.104	0	3	14	26	25	40	365	0.11	0.0227				
10 Pomona/Walnut Valley	70075	075	365	3	2.1	365	0.153	0.108	0.102	1	2	10	18	19	25	365	0.10	0.0318				
11 South San Gabriel Valley	70185	085 084	365	5 8	2.9	364	0.135	0.100	0.079	0	2 0	2 0	5	6	9 2	361	0.11	0.0249 0.0291				
12 South Central LA County	70084		365	2	5.1	365	0.102	0.077	0.056	0	2	, ,	1 44	_		365 339*	0.10					
13 Santa Clarita Valley	70090	090	361		1.2	357	0.135	0.110	0.101	0		16	44	31	64	339**	0.08	0.0196				
ORANGE COUNTY														_								
16 North Orange County	30177	3177	360	6	3.3	365	0.152	0.107	0.082	1	1	2	8	7	9	365	0.08	0.0219				
17 Central Orange County 18 North Coastal Orange County	30178	3176	346*	4 5	2.9	365	0.127	0.099	0.073	0	0	1	1	2	7 2	359	0.10	0.0208	250	0.01	0.004	0.0010
18 North Coastal Orange County19 Saddleback Valley	30195 30002	3195 3812	362 364	3	3.1 2.1	362 365	0.082 0.108	0.072 0.089	0.065 0.080	0	0	0 2	0 5	0 5	10	362	0.07	0.0132	358	0.01	0.004	0.0010
	30002	3612	304	J	2.1	303	0.100	0.009	0.000		0		- 3	3	10				1			
RIVERSIDE COUNTY 22 Norco/Corona	33155	4155																				
23 Metropolitan Riverside County 1	33144	4133	364	4	2.9	365	0.131	0.111	0.099	0	2	15	46	31	69	364	0.07	0.0206	323*	0.02	0.002	0.0017
23 Metropolitan Riverside County 1 23 Metropolitan Riverside County 2	33144	4144	365	4	2.9		0.131	0.111	0.099			15				304	0.07	0.0200	323	0.02	0.002	0.0017
23 Mira Loma	33140	5214	359	3	2.1	360	0.118	0.104	0.092	0	0	10	23	16	48	349*	0.07	0.0181				
24 Perris Valley	33149	4149				365	0.139	0.116	0.103	0	4	37	73	66	88							
25 Lake Elsinore	33158	4158	365	2	2.3	359	0.130	0.108	0.097	0	3	19	35	26	55	358	0.06	0.0174				
29 Banning Airport	33164	4164				365	0.129	0.113	0.095	0	1	12	43	28	63	363	0.08	0.0177				
30 Coachella Valley 1**	33137	4137	365	2	1.0	365	0.126	0.101	0.097	o o	1	20	58	29	83	365	0.06	0.0103				
30 Coachella Valley 2**	33155	4157				365	0.106	0.094	0.087	0	0	6	29	8	48							
SAN BERNARDINO COUNTY																						
32 Northwest San Bernardino Valley	36175	5175	365	2	1.6	365	0.145	0.115	0.112	0	7	18	35	32	55	327*	0.10	0.0276				
33 Southwest San Bernardino Valley	36025	5817																				
34 Central San Bernardino Valley 1	36197	5197	359	3	1.8	359	0.144	0.122	0.112	0	9	19	43	40	60	358	0.09	0.0239	359	0.01	0.004	0.0019
34 Central San Bernardino Valley 2	36203	5203	365	4	2.3	365	0.153	0.121	0.117	1	8	24	51	48	74	351	0.08	0.0245				
35 East San Bernardino Valley	36204	5204				365	0.149	0.124	0.112	0	7	25	58	54	79							
37 Central San Bernardino Mountains	36181	5181				365	0.171	0.137	0.126	4	13	59	93	67	115							
38 East San Bernardino Mountains	36001	5818																				
DISTRICT MAXIMUM				8	5.1		0.171	0.137	0.126	4	13	59	93	67	115		0.12	0.0318		0.11	0.011	0.0028
SOUTH COAST AIR BASIN				8	5.1		0.171	0.137	0.126	5	18	79	108	96	128		0.12	0.0318		0.11	0.011	0.0028
ppm - Parts Per Million parts of air, by volur	me		ΔΔ	M – Δnı	nual Arith	metic M	ean		- Pollutar	t not monit	ored											

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

** Salton Sea Air Basin.



The map showing the locations of source/receptor areas can be accessed via the Internet at http://www.aqmd.gov/telemweb/areamap.aspx. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

^{*} Less than 12 full months of data; may not be representative.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.

c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.

d) - The federal standard is annual arithmetic mean NO₂ > 0.0534 ppm. California Air Resources Board has revised the NO₂ 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.

e) - The state standards are 1-hour average $SO_2 > 0.25$ ppm and 24-hour average $SO_2 > 0.04$ ppm. The federal standards are annual arithmetic mean $SO_2 > 0.03$ ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO_2 standards were not exceeded.

2007 AIR QUALITY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Suspended Particulates PM10 f)							Fine Partic	ulates PM2.	5 ^{g)}			Particulate	es h)	Lead h)		Sulfate h)	
2007		on No.	No. Days	Max. Conc.	Exce	Samples eeding dards State > 50	Annual Average Conc. i)	No. Days	Max. Conc.	98 th Percentile Conc. in	No. (%) S Excee Federal S Current > 35 ^{j)}	ding	Annual Average Conc. k)	No. Days	Max. Conc.	Annual Average Conc.	Max. Monthly Average	Max. Quarterly Average	Max. Conc. l)	%Samples Exceeding State Standard ≥ 25
Source/Receptor Area	State	District	of	μg/m ³	μg/m ³	$\mu g/m^3$	(AAM)	of	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	(AAM)	of	$\mu g/m^3$	(AAM)	Conc. I)	Conc. l)	$\mu g/m^3$	μg/m ³
No. Location	Code	Code	Data	24-hour	24-hour	24-hour	μg/m ³	Data	24-hour	24-hour	24-hour	24-hour	μg/m ³	Data	24-hour	μg/m ³	$\mu g/m^3$	$\mu g/m^3$	24-hour	24-hour
LOS ANGELES COUNTY																				
1 Central LA	70087	087	57	78	0	5(9)	33.3	324	64.2	51.2	20(0.6)	0	16.8	58	194	73.5				
2 Northwest Coastal LA County	70091	091												57	180	57.6				
3 Southwest Coastal LA County	70111	820	56	96	0	2(4)	27.7							55	286	51.8				
4 South Coastal LA County 1	70072	072	58	75+	0+	5(9)+	30.2+	332	82.9	40.8	12(3.6)	1(0.3)	14.6	59	732	76.5				
4 South Coastal LA County 2	70110	077 074	57	123+	0+	17(30)+	41.7+	326 95	68.0	33.7	6(1.8)	1(0.3)	13.7	58	694	79.4				
6 West San Fernando Valley	70074			100		11(20)	40.0		43.3	33.4	1(1.1)	0	13.1							
7 East San Fernando Valley8 West San Gabriel Valley	70069 70088	069 088	55	109	0	11(20)	40.0	98 108	56.5 68.9	47.7 45.4	9(9.2) 3(2.8)	1(0.9)	16.8 14.3	 56	123	46.3				
9 East San Gabriel Valley 1	70060	060	57	83+	0+	11(19)+	35.6+	292*	63.8	49.3	19(6.5)	0	15.9	58	243	77.8				
9 East San Gabriel Valley 2	70591	591													2-3					
10 Pomona/Walnut Valley	70075	075																		
11 South San Gabriel Valley	70185	085						101	63.6	49.5	5(5.0)	0	16.7	55	196	76.0				
12 South Central LA County	70084	084						106	49.0	46.1	4(3.8)	0	15.9	59	327	78.8				
13 Santa Clarita Valley	70090	090	58	131+	0+	5(9)+	29.9+				′									
ORANGE COUNTY																				
16 North Orange County	30177	3177																		
17 Central Orange County	30178	3176	59	75+	0+	5(9)+	31.0+	336	79.4	46.5	14(4.2)	1(0.3)	14.5							
18 North Coastal Orange County	30195	3195																		
19 Saddleback Valley	30002	3812	58	74	0	3(5)	23.0	98	46.9	35.0	2(2.0)	0	11.3							
RIVERSIDE COUNTY																				
22 Norco/Corona	33155	4155	59	93+	0+	10(17)+	39.6+													
23 Metropolitan Riverside County 1	33144	4144	116	118+	0+	66(51)+	54.7+	295*	75.7	54.3	33(11.2)	3(1.0)	19.1	57	237	111.0				
23 Metropolitan Riverside County 2 23 Mira Loma	33146	4146	 56	142	0	41(72)		101	68.6	57.3	8(7.9)	1(1.0)	18.1	60	674	88.9				
24 Perris Valley	33165 33149	5214 4149	59	142 120+	0+	41(73) 32(54)+	68.5 54.8+	110	69.7	60.1	13(11.8)	1(0.9)	21.0							
25 Lake Elsinore	33158	4158																		
29 Banning Airport	33164	4164	49*	78	0	7(14)	33.3													
30 Coachella Valley 1**	33137	4137	55	83	0	6(11)	30.5	104	32.5	20.5	0	0	8.7							
30 Coachella Valley 2**	33155	4157	87*	146+	0+	51(59)+	53.5+	97	26.8	26.5	0	0	9.8							
SAN BERNARDINO COUNTY																				
32 Northwest San Bernardino Valley	36175	5175												60	206	63.5				
33 Southwest San Bernardino Valley	36025	5817	58	115+	0+	14(24)+	43.4+	102	72.8	53.0	6(5.9)	1(1.0)	17.9							
34 Central San Bernardino Valley 1	36197	5197	58	111+	0+	33(57)+	54.9+	107	77.5	64.9	10(9.3)	2(1.9)	19.0	58	242	96.2	_			
34 Central San Bernardino Valley 2	36203	5203	58	136+	0+	28(48)+	51.4+	99	72.1	68.4	11(11.1)	3(3.0)	18.3	59	536	106.9				
35 East San Bernardino Valley	36204	5204	60	97	0	19(32)	39.7													
37 Central San Bernardino Mountains	36181	5181	54	89	0	2(4)	27.2	 54	15.1	24.0	1(1.0)	0	10.4							
38 East San Bernardino Mountains	36001	5818						54	45.4	34.0	1(1.9)	-	10.4						1	
DISTRICT MAXIMUM				146+	0+	66+	68.5+		82.9	68.4	33	3	21.0		732	111.0	-			
SOUTH COAST AIR BASIN				142+	0+	79+	68.5+	Dol	82.9	68.4	48	8	21.0		732	111.0				

μg/m³ - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.



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^{*} Less than 12 full months of data; may not be representative.

^{**} Salton Sea Air Basin.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

i) - Federal annual PM10 standard (AAM > 50 μg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 μg/m³.

j) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m³ to 35 µg/m³; effective December 17, 2006.

k) - Federal PM2.5 standard is annual average (AAM) > 15 μ g/m³. State standard is annual average (AAM) > 12 μ g/m³.

Federal lead standard is quarterly average > 1.5 μg/m³; and state standard is monthly average ≥ 1.5 μg/m³. Lead and sulfate data analysis is incomplete and data is not available at this time.

^{+ -} The following PM10 data samples were excluded from compliance consideration in accordance with the EPA Exceptional Event Regulation: 210 and 157 ug/m3 on March 22 and April 6, respectively, at Coachella Valley 2 (high wind events); 167 ug/m3 on April 12 at Perris Valley (high wind event); 165 and 155 ug/m3 on July 5 at East San Gabriel 1 and Central San Bernardino Valley 1, respectively (fireworks displays); and high concentration throughout the District on October 21, with a maximum concentration of 559 ug/m3 at Metropolitan Riverside County 1 (high wind and wildfire event).

2008 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

0000			Carb	on Mono	oxide ^{a)}					Ozo	one					Nit	rogen Dio	xide ^{d)}		Sulfur	Dioxide e	e)
2008											No. I	Days Stan	dard Exce	eded								
4000				Max.	Max		Max.	Max.	Fourth	Health	_	Federal b	p)	Sta	te ^{c)}		Max	Annual		Max.	Max.	Annual
	Statio	on No.	No.	Conc.	Conc.	No.	Conc.	Conc.	High	Advisory						No.	Conc.	Average	No.	Conc.	Conc.	Average
Source/Receptor Area	~		Days	in	in	Days	in	in	Conc.	≥ 0.150	> 0.12	> 0.08	> 0.075	> 0.09	> 0.070	Days	in	AAM	Days	in	in	AAM
No. Location	State Code	District Code	of Data	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	Conc.	of Data	ppm 1-hour	ppm 24-hour	Conc.
LOS ANGELES COUNTY																						
1 Central LA	70087	087	366	3	2.1	356	0.109	0.090	0.073	0	0	1	3	3	7	343	0.12	0.0275	366	0.01	0.002	0.0003
2 Northwest Coastal LA County	70091	091	366	3	2.0	366	0.11	0.097	0.073	0	0	1	2	3	8	364	0.09	0.0184				
3 Southwest Coastal LA County	70111	820	358	4	2.5	360	0.086	0.075	0.065	0	0	0	0	0	1	359	0.10	0.0143	357	0.02	0.005	0.0014
4 South Coastal LA County 1	70072	072	366	3	2.6	366	0.093	0.074	0.064	0	0	0	0	0	1	366	0.13	0.0208	366	0.09	0.012	0.0022
4 South Coastal LA County 2	70110	077													<u> </u>							
6 West San Fernando Valley	70074	074	366	4	2.9	366	0.123	0.103	0.095	0	0	14	25	23	40	366	0.09	0.0180				
7 East San Fernando Valley	70069	069	366	3	2.6	366	0.133	0.109	0.092	0	1	8	17	20	35	364	0.11	0.0285	366	0.01	0.003	0.0008
8 West San Gabriel Valley	70088	088	366	3	2.1	366	0.122	0.100	0.091	0	0	6	16	16	26	365	0.11	0.0235				
9 East San Gabriel Valley 1	70060	060	366	2	1.6	366	0.135	0.111	0.101	0	7	14	28	34	39	366	0.10	0.0230				
9 East San Gabriel Valley 2	70591	591	366	3	3.0	366	0.156	0.118	0.112	2	12	25	45	48	61	366	0.10	0.0182				
10 Pomona/Walnut Valley	70075	075	366	3	2.0	366	0.141	0.110	0.100	0	5	19	35	32	47	366	0.11	0.0302				
11 South San Gabriel Valley	70185	085	357	3	2.1	366	0.107	0.093	0.077	0	0	1	5	7	13	341	0.10	0.0263				
12 South Central LA County	70084	084	310*	6*	4.3*	310*	0.078*	0.060*	0.055*	0*	0*	0*	0*	0*	0*	305*	0.12*	0.0301*				
13 Santa Clarita Valley	70090	090	363	2	1.1	363	0.160	0.131	0.108	2	8	35	60	54	81	363	0.07	0.0165				
ORANGE COUNTY																						
16 North Orange County	30177	3177	366	5	2.9	366	0.104	0.084	0.078	0	0	0	5	7	15	361	0.09	0.0206				
17 Central Orange County	30178	3176	366	4	3.6	366	0.105	0.086	0.076	0	0	1	4	2	10	366	0.09	0.0203				
18 North Coastal Orange County	30195	3195	366	3	2.0	366	0.094	0.079	0.075	0	0	0	3	0	6	365	0.08	0.0132	366	0.01	0.003	0.0011
19 Saddleback Valley	30002	3812	365	2	1.1	365	0.118	0.104	0.092	0	0	6	15	9	25							
RIVERSIDE COUNTY																						
22 Norco/Corona	33155	4155																				
23 Metropolitan Riverside County 1	33144	4144	366	3	2.0	366	0.146	0.116	0.111	0	8	38	64	54	88	366	0.09	0.0192	366	0.01	0.003	0.0009
23 Metropolitan Riverside County 2	33146	4146	366	7	2.0											70*	0.09*	0.0258*				
23 Mira Loma	33165	5214	366	3	1.9	366	0.135	0.107	0.104	0	4	23	47	38	62	366	0.10	0.0174				
24 Perris Valley	33149	4149				366	0.142	0.114	0.106	0	4	41	77	65	94							
25 Lake Elsinore	33158	4158	365	1	1.0	365	0.139	0.118	0.108	0	6	32	69	49	92	362	0.06	0.0129				
29 Banning Airport	33164	4164				365	0.149	0.120	0.108	0	10	45	74	57	95	366	0.08	0.0128				
30 Coachella Valley 1**	33137	4137	366	1	0.6	366	0.11	0.101	0.098	0	0	20	51	26	70	366	0.05	0.0093				
30 Coachella Valley 2**	33155	4157				355	0.12	0.092	0.090	0	0	11	27	11	44							
SAN BERNARDINO COUNTY																						
32 Northwest San Bernardino Valley	36175	5175	365	2	1.6	365	0.155	0.122	0.111	2	9	30	50	51	65	365	0.09	0.0235				
33 Southwest San Bernardino Valley	36025	5817						2.														
34 Central San Bernardino Valley 1	36197	5197	363	2	1.9	364	0.162	0.124	0.111	1	8	35	58	55	82	364	0.10	0.0207	364	0.01	0.003	0.0018
34 Central San Bernardino Valley 2	36203	5203	366	2	1.8	366	0.157	0.122	0.113	2	11	43	62	62	90	366	0.09	0.0217				
35 East San Bernardino Valley	36204	5204				366	0.154	0.120	0.112	1	12	50	75	72	100							
37 Central San Bernardino Mountains	36181	5181				362	0.176	0.126	0.120	2	16	67	97	78	115							
38 East San Bernardino Mountains	36001	5818																				
DISTRICT MAXIMUM			366	7	4.3	366	0.176	0.131	0.120	2	17	75	97	79	115		0.13	0.0302		0.09	0.012	0.0022
SOUTH COAST AIR BASIN	•			7	4.3		0.176	0.131	0.120	7	28	80	120	102	140		0.13	0.0302		0.09	0.012	0.0022
ppm - Parts Per Million parts of air, by yolur	no		Λ Λ	M - An	nual Arith	metic M	200		Pollutar	nt not monit	orad											

ppm - Parts Per Million parts of air, by volume.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

- c) The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.
- d) The federal standard is annual arithmetic mean NO₂ > 0.0534 ppm. California Air Resources Board has revised the NO₂ 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.
- e) The state standards are 1-hour average $SO_2 > 0.25$ ppm and 24-hour average $SO_2 > 0.04$ ppm. The federal standards are annual arithmetic mean $SO_2 > 0.03$ ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO_2 standards were not exceeded.



The map showing the locations of source/receptor areas can be accessed via the Internet at http://www.aqmd.gov/telemweb/areamap.aspx. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

** Salton Sea Air Basin.

^{*} Less than 12 full months of data; may not be representative.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.

2008 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

-				Suanand	ad Dartianl	ates PM10 ^{f)}		Ī		Eina Partia	ulates PM2	5 g)		т	Particulates	TCDh)	La	ad h)	Cui	Ifate h)
2008				Max.	No. (%) Samples	Annual Averag		Max.	98 th	No. (%) Exce	Samples eding Standard	Annual	r	Max.	Annual	Max.	Max.	Max.	%Samples Exceeding State
			No.	Conc.	Federal	State	e i)	No.	Conc.	Percentile	Current	Old	Average	No.	Conc.	Average	Monthly	Quarterly	Conc.	Standard
	Statio	n No.	Days	in	> 150	> 50	Conc. 1)	Days	in	Conc. in	> 35 ^{j)}	> 65 ^{j)}	Conc. k)	Days	in	Conc.	Average	Average	in	≥ 25
Source/Receptor Area	State	District	of	μg/m ³	μg/m ³	μg/m ³ 24-	(AAM)	of	μg/m ³	μg/m ³	μg/m ³	μg/m ³	(AAM)	of	μg/m ³	(AAM)	Conc. 1)	Conc. 1)	$\mu g/m^3$	μg/m ³
No. Location	Code	Code	Data	24-hour	24-hour	hour	μg/m ³	Data	24-hour	24-hour	24-hour	24-hour	μg/m ³	Data	24-hour	μg/m ³	μg/m ³	μg/m ³	24-hour	24-hour
LOS ANGELES COUNTY													\							
1 Central LA	70087	087	42*	66*	0*	3(7%)*	32.2*	337	78.3	40.4	10(3.0)	1(0.3)	15.7							
2 Northwest Coastal LA County	70091	091																		
3 Southwest Coastal LA County 4 South Coastal LA County 1	70111 70072	820 072	60 57	50 62	0	0(0%)	25.6	246	57.2	38.9	8(2.3)	0	14.2							
4 South Coastal LA County 1 4 South Coastal LA County 2	70072	072	58	81	0	1(2%) 9(16%)	29.1 35.8	346 349	60.9	36.4	7(2.0)	0	14.2 13.7							
6 West San Fernando Valley	70074	074						113	50.5	26.2	2(1.8)	0	11.9	 			-		-	
7 East San Fernando Valley	70074	069	54	66	0	7(13%)	35.6	116	57.5	34.6	2(1.7)	0	14.1							
8 West San Gabriel Valley	70088	088				7(1370)		118	66.0	32.1	2(1.7)	1(0.9)	12.9							
9 East San Gabriel Valley 1	70060	060	49	98	0	13(27%)	35.3	321	53.1	34.8	5(1.6)	0	14.1							
9 East San Gabriel Valley 2	70591	591				\ \														
10 Pomona/Walnut Valley	70075	075														•				
11 South San Gabriel Valley	70185	085						114.	47.3	38.0	4(3.5)	0	15.0							
12 South Central LA County	70084	084						118	44.2	36.5	3(2.5)	0	15.5							
13 Santa Clarita Valley	70090	090	57	91	0	2(4%)	25.8													
ORANGE COUNTY																				
16 North Orange County	30177	3177							1			—								
17 Central Orange County	30178	3176	58	61	0	3(5%)	28.6	336	67.9	39.4	13(3.9)	1(0.3)	13.7							
18 North Coastal Orange County	30195	3195						<u> </u>			-									
19 Saddleback Valley	30002	3812	55	42	0	0(0%)	22.6	120	32.6	27.1	0	0	10.4							
RIVERSIDE COUNTY									`											
22 Norco/Corona	33155	4155	61	86	0	9(15%)	34.4		-											
23 Metropolitan Riverside County 1	33144	4144	119	115	0	49(41%)	47.0	348	57.7	41.5	14(4.0)	0	16.4							
23 Metropolitan Riverside County 223 Mira Loma	33146 33165	4146 5214	61	135	0	35(57%)	57.4	116 111	43.0 50.9	39.1 47.1	4(3.4)	0	13.4 18.2							
24 Perris Valley	33149	4149	 45*	 85*	0*	12(27%)*	38.3*	111	30.9	47.1	10(9.0)		10.2							
25 Lake Elsinore	33158	4158				12(27/0)								†		•				
29 Banning Airport	33164	4164	56	51	0	1(2%)	26.1													
30 Coachella Valley 1**	33137	4137	52	75	0	4(8%)	24.0	110	18.1	17.1	0	0	7.2							
30 Coachella Valley 2**	33157	4157	114	128	0	27(24%)	39.9	113	21.6	18.8	0	0	8.4							
SAN BERNARDINO COUNTY																			Ì	
32 Northwest San Bernardino Valley	36175	5175				-:-														
33 Southwest San Bernardino Valley	36025	5817	62	90	0	15(24%)	38.8	113	54.2	45.0	6(5.3)	0	15.8							
34 Central San Bernardino Valley 1	36197	5197	60	75	0	14(23%)	40.3	112	49.0	47.1	6(5.4)	0	15.4							
34 Central San Bernardino Valley 2	36203	5203	60	76	0	19(32%)	42.7	110	43.5	40.1	3(2.7)	0	13.5	,		- \$1101011111111111111111111111111111111				
35 East San Bernardino Valley	36204	5204	61	58	0	4(7%)	29.0				'									
37 Central San Bernardino Mountains	36181	5181	46	46	0	0(0%)	25.0													
38 East San Bernardino Mountains	36001	5818				<u>-</u>		58	36.8	33.3	1(1.7)	0	9.2							
DISTRICT MAXIMUM				135	0	59	57.4		78.3	47.1	14	1	18.2							
SOUTH COAST AIR BASIN				135	0	68	57.4		78.3	47.1	28	2	18.2							
ug/m ³ - Micrograms per cubic meter of air			Λ	$\Delta M - \Delta nnn$	al A mithana	tio Moon		Dol	lutant not r	nonitomad				_					_	

μg/m³ - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

- h) Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.
- i) Federal annual PM10 standard (AAM > 50 μg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 μg/m³.
- j) U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 μg/m³ to 35 μg/m³; effective December 17, 2006.
- k) Federal PM2.5 standard is annual average (AAM) > 15 μg/m³. State standard is annual average (AAM) > 12 μg/m³.
- l) Federal lead standard is quarterly average > 1.5 μg/m³, and state standard is monthly average ≥ 1.5 μg/m³. U.S. EPA has established the federal standard of 0.15 ug/m³, rolling 3-month average, as of October 15, 2008.

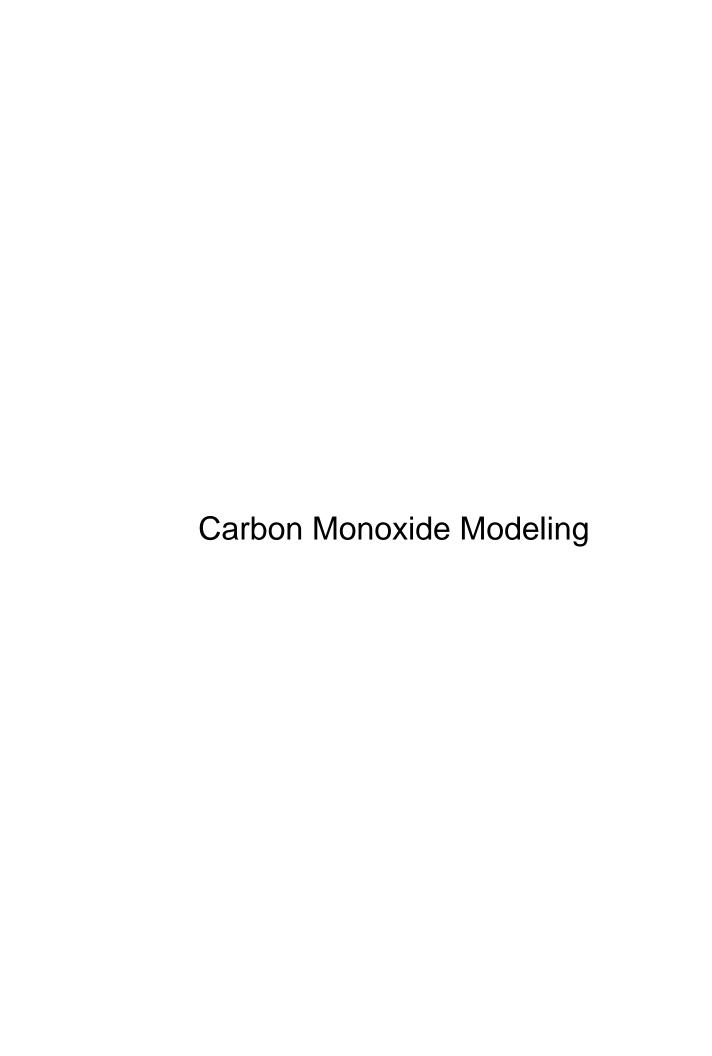
** Salton Sea Air Basin.



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^{*} Less than 12 full months of data; may not be representative.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every 6 days.



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No. Call Data Passenger Cars Call Data Data	otal	0.06	4.13	0.04	4.23	0.04	3.13	0.04	3.22	0.01	1.31	0.10	1.42	0.00	0.06	0.06	6.24	6.30	0.16	0.06	15.
Procedure Proc																					2.
No. Process Process	otal Ex	0.04	1.53	0.04	1.61	0.03	1.69	0.03	1.75	0.01		0.06	0.78	0.00	0.02	0.02	5.82	5.84	0.15		10.
No.											0.06									0.01	0. 0.
Part									1.62	0.01	0.65										
Heat Note 1		0.57	52.46	0.09	53.12	0.42	36.05	0.17				0.73	21.16	0.07	1.08	1.14	15.08	16.23	1.21	0.16	128
	dle Exh tart Ex	0.00 0.05	0.00 1.69	0.00	0.00 1.74	0.00 0.03	0.00 1.08	0.00	35.54 0.00 1.10	0.16 0.00 0.02	19.61 0.02 0.62	0.72 0.00 0.00	0.03 0.64	0.00 0.02	0.01 0.03	0.01 0.05	0.32	0.33 0.05	0.00	0.00 0.02	0 3
Tright Duty Passenger Cars		7.51														J.41				1.40	
Light Duty Passenger Cars Light Duty Passenger Cars Light Duty Trucks Non-cat Cat Diesel Total Non-cat Diesel Total Non-cat Cat Diesel Total Non-cat Diesel Total Non-cat Cat Diesel Total Diesel Total Non-cat Cat Diesel Total Diesel Total Non-cat Cat Diesel Total Non-cat Cat Diesel Total Diesel Total Non-cat Cat Diesel Total Diesel Diesel Diesel Diesel Diesel Diesel																					29 280
Light Duty Passenger Cars Light Duty Trucks Light Duty Trucks Light Duty Trucks Roman Duty Trucks -	dle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.08 0.00	1.37	20.13 0.01	8.53 0.06	0.07	0.00	0.00	0.00	5.19	5.19	0.00	0.00	
Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Gasoline Trucks Diesel Total HD Urban Motor Al Non-cat Cat Diesel Total HD Urban Motor Al Trucks Cat Diesel Trucks Cat Diesel Total HD Urban Motor Al Trucks Cat Diesel Diesel Trucks Cat Diesel Dies																					
Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Medium Duty Trucks																					
Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Gasoline Trucks Gaso	dle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	290.16 0.00	29.54 0.01	118.86 0.73	0.02	0.77	0.03	0.23	0.26	2.37	2.64	0.00	0.00	
		13.58	46.16	0.06	59.79	8.10	29.86	0.06				0.26	23.21	2.46	3.49	5.95	10.80	16.75	0.71	6.51	144
		0.25	1.71				0.83	0.00		0.01	0.31	0.00			0.00	0.01	0.00	0.01	0.00	0.17	
Light Duty Passenger Cars Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Gasoline Trucks Diesel Total HD Urban Motor All Non-cat Cat Diesel Total Trucks Trucks Buses Cycles Vehic Cehicles 53488 3319590 10057 3383130 28066 1711100 13597 1752760 9384 660504 23882 693770 5831 53389 59220 73865 133086 4283 135702 6102 MT/1000 878 114657 222 115757 665 63801 439 64905 211 26031 1266 27508 56 1395 1451 7774 9225 467 1001 218 rips 216127 21008800 55414 21280400 115372 10857700 83427 11055500 84436 649850 287862 6862150 102177 714404 816581 1324740 2141330 17131 271376 41628 Cun Exh 6.67 12.96 0.06 19.69 5.21 9.32 0.06 14.59 1.79 6.81 0.26 8.85 0.46 1.66 2.13 10.09 12.22 0.67 4.24 6 dle Exh 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	ot Soak	0.71	3.94	0.00	4.65	0.38	1.82	0.00	2.20	0.08	0.78	0.00	0.86	0.05	0.02	0.08	0.00	0.08	0.00	0.15	34
Light Duty Passenger Cars Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Medium Duty Trucks		7.99	25.60		33.65		16.41		22.39		13.27			1.86	3.08	4.94	10.80	15.75	0.69	5.03	93
HeavyDutyTrucks Non-cat Cat Diesel Total Trucks Trucks Buses cycles Vehicles 7 HeavyDutyTrucks Diesel Total Non-cat Cat Diesel Total Non-cat Cat Diesel Total Trucks Trucks Buses cycles Vehicles 8 HeavyDutyTrucks Diesel Total Non-cat Cat Diesel Total Non-cat Cat Diesel Total Trucks Trucks Buses cycles Vehicles 8 HeavyDutyTrucks Diesel Total Non-cat Cat Diesel T	dle Exh	0.00 1.32	0.00 12.64	0.00	0.00 13.97	0.00	0.00 7.09	0.00	0.00 7.80	0.00	0.13 6.33	0.00	0.13	0.00 1.39	0.04	0.05 2.77	0.71 0.00	0.76 2.77	0.00	0.00 0.78	32
Heavy Duty Trucks Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Gasoline Trucks Diesel Total HD Urban Motor Al Non-cat Cat Diesel Total Non-cat Cat Diesel Total Non-cat Cat Diesel Total Trucks Trucks Buses cycles Vehic Vehicles 53488. 3319590. 10057. 3383130. 28066. 1711100. 13597. 1752760. 9384. 660504. 23882. 693770. 5831. 53389. 59220. 73865. 133086. 4283. 135702. 6102 NMY/1000 878. 114657. 222. 115757. 665. 63801. 439. 64905. 211. 26031. 1266. 27508. 56. 1395. 1451. 7774. 9225. 467. 1001. 218			10.00		10.50		0.20					0.00		0.46	1.66	0.12	10.00	10.00	0.67	4 04	
Heavy Duty Trucks Light Duty Passenger Cars Light Duty Trucks Medium Duty Trucks Gasoline Trucks Diesel Total HD Urban Motor- Al Non-cat Cat Diesel Total Non-cat Cat Diesel Total Non-cat Cat Diesel Total Non-cat Cat Total Trucks Trucks Buses cycles Vehic	MT/1000	878.	114657.	222.	115757.	665.	63801.	439.	64905.	211.	26031.	1266.	27508.	56.	1395.	1451.	7774.	9225.	467.	1001.	2188
Heavy Duty Trucks		Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel ******	******	Non-cat	Cat *****	Diesel	Total	Non-cat	Cat	Total	Trucks	Trucks	Buses	*****	Vehicl
uissions: Tons Per Day		*****	******											H	eavy I	uty T	rucks				

n Date en Year	Emfac2007 2008/09/1 2030 A Annual	16 10:48:0	7	he range 1	986 to 203) selected														
ea M Stat	Los Angel	Interim (sing I/M s	chedule for	r area 59 Lo	s Angeles	s (SC)												
			*****	*****	*****	******	*****	******	******	*****	******	******						******	*****	*****
	Tio	tht Duty P	assenger C	arg		- Light Duty	Trucks -			Medium Du	tv Trucks		H	eavy l			Total HD	Urban	Motor-	All
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total	Trucks	Trucks	Buses	cycles	Vehicle
******** Tehicles	*******	4001890.			******	********** 2217610.		*********	********* 0.	*******		.*******	******	*******	05067	111200	107357	.*******	*******	
MT/1000	0.		254. 5.		0.	76242.	1718. 43.	2219330. 76285.	0.	890264. 31776.	39215. 1859.	929479. 33634.	0.	85967. 1765.	85967. 1765.	111390. 11757.	197357. 13522.	5439. 594.	178673. 1307.	
rips		24723600.		24724800.		13511000.		13519100.	0.	8715590.	490349.	9205940.	0.	836623.	836623.	1996980.	2833610.	21758.	357311.	
								Total (Organic Gas	Emissions										
un Exh	0.00	2.78	0.00	2.78	0.00	3.17	0.00	3.18	0.00	1.68	0.18	1.86	0.00	0.16	0.16	3.24	3.39	0.33	4.25	15
dle Exh	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.16		0.04	0.04	0.60	0.64	0.00	0.00	0.
Start Ex	0.00	1.79	0.00	1.79	0.00	1.86	0.00	1.86	0.00	2.11	0.00	2.11	0.00	0.51	0.51	0.00	0.51	0.03	0.87	7.
otal Ex	0.00	4.57	0.00	4.57	0.00	5.03	0.00	5.03	0.00	3.95	0.18	4.13	0.00	0.71	0.71	3.83	4.55	0.36	5.12	23.
Diurnal	0.00	0.91	0.00	0.91	0.00	1.02	0.00	1.02	0.00	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.
Hot Soak	0.00	2.39		2.39	0.00	2.03	0.00	2.03	0.00	0.92	0.00	0.92	0.00	0.02	0.02	0.00	0.02	0.00	0.12	5.
Running Resting	0.00	5.73 0.93	0.00	5.73 0.93	0.00	7.60 1.10	0.00	7.60 1.10	0.00	4.50 0.46	0.00	4.50 0.46	0.00	0.28	0.28	0.00	0.28	0.02	0.44	18
_																				
otal 	0.00	14.52	0.00	14.52	0.00	16.78	0.00	16.78	0.00	10.25	0.18	10.43	0.00	1.02	1.02	3.83	4.86	0.39	6.20	53
un Exh	0.00	84.99	0.00	85.00	0.00	92.75	0.03	Carbor 92.78	n Monoxide 0.00	Emissions 44.93	1.52	46.45	0.00	4.28	4.28	18.43	22.71	2.62	32.67	282
dle Exh	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.94	0.04	0.98	0.00	0.26	0.26	2.92	3.18	0.00	0.00	
Start Ex	0.00	27.47			0.00	27.47	0.00	27.47	0.00	26.79	0.00	26.79	0.00	8.08	8.08	0.00	8.08	0.33	4.09	94.
otal Ex	0.00	112.46	0.00	112.47	0.00	120.22	0.03	120.25	0.00	72.65	1.56	74.21	0.00	12.62	12.62	21.34	33.97	2.96	36.77	380.
								Oxides	of Nitroge	n Emission	 3									
Run Exh	0.00	6.20			0.00	7.97	0.07	8.04	0.00	4.84	3.04	7.87	0.00	0.90	0.90	32.24	33.13	5.12	1.59	61
dle Exh Start Ex	0.00	0.00		0.00 1.40	0.00	0.00 1.79	0.00	0.00 1.79	0.00	0.01 7.09	0.11	0.12 7.09	0.00	0.00	0.00 1.13	8.60 0.00	8.60 1.13	0.00	0.00	8 11
otal Ex	0.00	7.60	0.01	7.60	0.00	9.76	0.07	9.83	0.00	11.94	3.15	15.09	0.00	2.03	2.03	40.84	42.87	5.17	1.72	82
un Exh	0.00	55.83	0.00	55.83	0.00	42.67	0.02	Carbon I 42.69	Dioxide Emi 0.00	ssions (00) 24.46	1.06	25.52	0.00	1.37	1.37	22.51	23.88	1.17	0.25	149
dle Exh	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.04	0.00	0.01	0.01	0.46	0.47	0.00	0.00	
Start Ex	0.00	1.91	0.00	1.91	0.00	1.33	0.00	1.33	0.00	0.83	0.00	0.83	0.00	0.03	0.03	0.00	0.03	0.00	0.02	4
otal Ex	0.00	57.73	0.00	57.74	0.00	44.01	0.02	44.02	0.00	25.32	1.07	26.39	0.00	1.41	1.41	22.97	24.38	1.18	0.27	153
									PM10 Emissi	ons										
un Exh	0.00	1.95			0.00	2.71	0.00	2.71	0.00	1.11	0.04	1.15	0.00	0.01	0.01	1.72	1.74	0.10	0.03	7
dle Exh	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	
tart Ex	0.00	0.17	0.00	0.17	0.00	0.20	0.00	0.20	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
otal Ex	0.00	2.12	0.00	2.12	0.00	2.91	0.00	2.91	0.00	1.21	0.04	1.25	0.00	0.02	0.02	1.74	1.76	0.10	0.03	8
ireWear	0.00	1.13	0.00	1.13	0.00	0.67	0.00	0.67	0.00	0.31	0.02	0.33	0.00	0.02	0.02	0.35	0.38	0.01	0.01	2
BrakeWr	0.00	1.77	0.00	1.77	0.00	1.05	0.00	1.05	0.00	0.44	0.03	0.47	0.00	0.03	0.03	0.29	0.32	0.01	0.01	3
otal	0.00	5.02	0.00	5.02	0.00	4.64	0.00	4.64	0.00	1.95	0.09	2.05	0.00	0.07	0.07	2.39	2.46	0.11	0.05	14.
Lead	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
Ox	0.00	0.56	0.00	0.56	0.00	0.42	0.00	0.42	0.00	0.24	0.01	0.25	0.00	0.01	0.01	0.22	0.23	0.01	0.00	1.
14-	0.00	5929.99	0.00	E020 00	0.00	4525.00	0.00			000 gallon		2604 22	0.00	146.55	146.55	0.00	146 55	20 53	24.05	12260
Sasoline	0.00	0.00	0.00		0.00	4525.98 0.00	0.00	4525.98 1.47	0.00	2604.83	0.00 96.16	2604.83 96.16	0.00	0.00	0.00	0.00 2067.46	146.55 2067.46	20.51 88.10	0.00	13262 2253

Title : EMFAC 2008 & 2030 Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2008/09/16 10:48:07

Scen Year: 2008 -- All model years in the range 1965 to 2008 selected

Season : Annual

Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average County Average Los Angeles

Table 1: Running Exhaust Emissions (grams/mile; grams/idle-hour)

Pollutant Name: Carbon Monoxide Temperature: 63F Relative Humidity: 66%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
0	0.000	0.000	23.201	45.489	0.000	0.000	5.129
20	3.749	4.697	5.694	11.048	10.245	24.978	4.746

Title : EMFAC 2008 & 2030

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2008/09/16 10:48:07

Scen Year: 2030 -- All model years in the range 1986 to 2030 selected

Season : Annual
Area : Los Angeles

Year: 2030 -- Model Years 1986 to 2030 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Los Angeles County Average

Table 1: Running Exhaust Emissions (grams/mile; grams/idle-hour)

Pollutant Name: Carbon Monoxide Temperature: 63F Relative Humidity: 66%

 Speed MPH
 LDA
 LDT
 MDT
 HDT
 UBUS
 MCY
 ALL

 0
 0.000
 0.000
 23.690
 39.598
 0.000
 0.000
 5.472

 20
 0.752
 1.305
 1.474
 1.700
 4.726
 15.975
 1.166

Title : Crenshaw-Prairie Transit Version : Emfac2007 V2.3 Nov 1 2006 Run Date : 2008/01/30 15:29:19

Scen Year: 2008 -- All model years in the range 1965 to 2008 selected

Season : January
Area : Los Angeles County Average

I/M Stat : Enhanced Interim (2005) -- Using I/M schedule for area 59 Los Angeles (SC)

Emissions: Tons Per Day

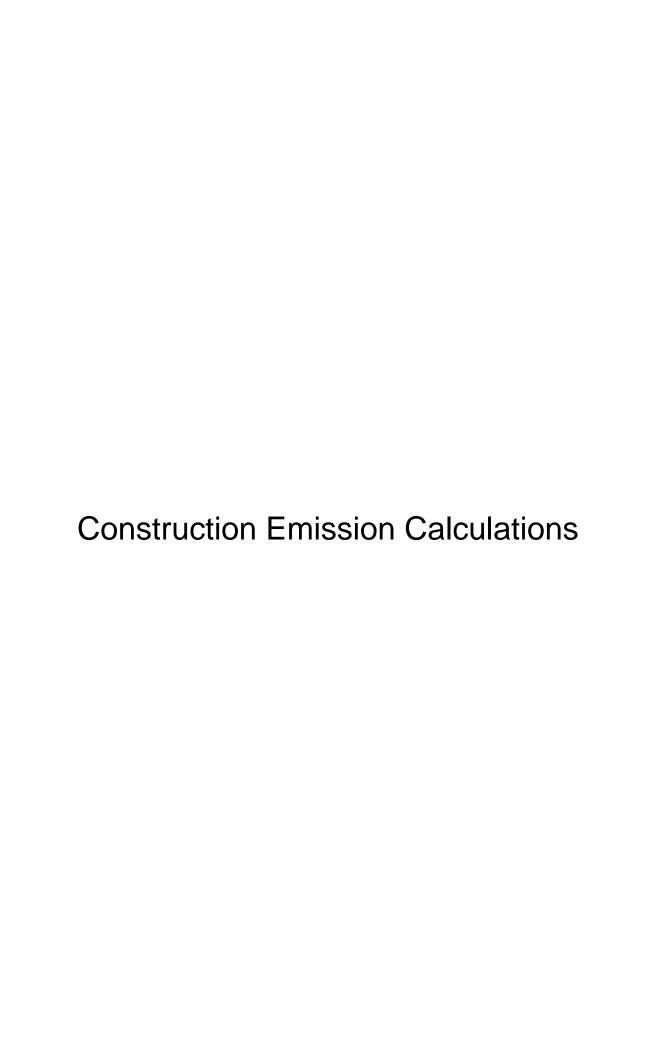
	Lig	tht Duty Pa	ssenger Ca	ars		- Light Duty	/ Trucks -			Medium Du	ty Trucks		H Gaso				s Total HD	Urban	Motor-	All
******	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total	Trucks	Trucks	Buses	cycles	Vehicles
Vehicles	53488.	3319590.	10057.	3383130.	28066.	1711100.	13597.	1752760.	9384.	660504.	23882.	693770.	5831.	53389.	59220.	73865.	133086.	4283.	135702.	6102740.
VMT/1000	878.	114657.	222.	115757.	665.	63801.	439.	64905.	211.	26031.	1266.	27508.	56.	1395.	1451.	7774.	9225.	467.	1001.	218863.
Trips	216127.	21008800.	55414.	21280400.	115372.	10857700.	83427.	11056500.	84436.	6489850.	287862.	6862150.	102177.	714404.	816581.	1324740.	2141330.	17131.	271376.	41628900.
								Total (rganic Gas	Emissions										
Run Exh	7.33	12.61	0.06	19.99	5.75	9.11	0.06	14.91	1.97	6.63	0.26	8.85	0.51	1.61	2.12	10.09	12.21	0.66	4.59	61.22
Idle Exh Start Ex	0.00 1.61	0.00 15.11	0.00	0.00 16.72	0.00	0.00 8.47	0.00	0.00 9.33	0.00 0.78	0.13 7.61	0.00	0.13 8.39	0.00 1.79	0.04 1.65	0.05 3.45	0.77	0.82 3.45	0.00	0.00	0.95 38.86
Start Ex										7.01										
Total Ex	8.93	27.72	0.06	36.71	6.61	17.57	0.06	24.24	2.75	14.37	0.26	17.38	2.31	3.30	5.61	10.86	16.48	0.69	5.55	101.03
Diurnal	0.14	1.24	0.00	1.38	0.07	0.58	0.00	0.65	0.01	0.21	0.00	0.22	0.00	0.01	0.01	0.00	0.01	0.00	0.11	2.37
Hot Soak	0.95	4.40	0.00	5.36	0.52 1.69	2.04 11.97	0.00	2.55	0.11	0.88 6.33	0.00	0.99 6.67	0.07 0.57	0.03	0.10	0.00	0.10 0.98	0.00	0.20 1.03	9.20
Running Resting	4.83	14.57 0.78	0.00	19.40 0.87	0.05	0.37	0.00	13.66	0.34	0.14	0.00	0.14	0.57	0.40	0.98	0.00	0.98	0.02	0.06	41.76 1.50
Total	14.95	48.71	0.06	63.72	8.94	32.53	0.06	41.53	3.21	21.93	0.26	25.39	2.96	3.74	6.70	10.86	17.56	0.71	6.95	155.86
Run Exh	82.73	295.04	0.22	377.99	62.91	228.13	0.34	Carbor 291.37	Monoxide 33.28	Emissions 116.02	1.20	150.50	14.80	26.59	41.39	38.03	79.42	4.50	55.27	959.06
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.73	0.02	0.77	0.03	0.23	0.26	3.21	3.47	0.00	0.00	4.24
Start Ex	7.50	166.27	0.00	173.77	4.07	103.63	0.00	107.70	4.52	91.52	0.00	96.03	12.89	27.88	40.77	0.00	40.77	0.33	3.21	421.82
Total Ex	90.22	461.32	0.22	551.76	66.98	331.76	0.34	399.07	37.81	208.27	1.22	247.30	27.72	54.71	82.42	41.24	123.66	4.83	58.48	1385.11
								Oxides	of Nitroge	n Emission	 s									
Run Exh	4.71	33.76	0.37	38.85	3.54	34.84	0.74	39.12	1.55	23.02	8.91	33.48	0.42	6.91	7.33	136.64	143.97	9.78	1.58	266.78
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.07	0.00	0.00	0.00	4.96	4.96	0.00	0.00	5.03
Start Ex	0.36	9.49	0.00	9.86	0.19	7.74	0.00	7.93	0.13	10.25	0.00	10.38	0.22	2.85	3.06	0.00	3.06	0.03	0.10	31.37
Total Ex	5.07	43.26	0.37	48.70	3.73	42.58	0.74	47.05	1.69	33.28	8.97	43.94	0.64	9.76	10.40	141.60	152.00	9.81	1.68	303.18
								Carbon I	ioxide Emi	ssions (00	0)									
Run Exh	0.52	49.54	0.09	50.15	0.39	34.16	0.17	34.73	0.16	19.22	0.72	20.10	0.04	1.04	1.08	14.77	15.85	1.21	0.15	122.19
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.01	0.01	0.30	0.30	0.00	0.00	0.33
Start Ex	0.05	1.69	0.00	1.74	0.03	1.08	0.00	1.10	0.02	0.62	0.00	0.64	0.02	0.03	0.05	0.00	0.05	0.00	0.02	3.55
Total Ex	0.57	51.23	0.09	51.89	0.42	35.24	0.17	35.83	0.18	19.86	0.73	20.77	0.07	1.08	1.14	15.06	16.21	1.21	0.16	126.07
								I	M10 Emissi	ons.										
Run Exh	0.03	1.40	0.04	1.47	0.03	1.56	0.03	1.62	0.01	0.65	0.06	0.72	0.00	0.01	0.02	5.72	5.74	0.15	0.05	9.74
Idle Exh Start Ex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.12
						1.69		1.75		0.71					0.02			0.15	0.05	10.20
Total Ex	0.04	1.53	0.04	1.61	0.03	1.69	0.03	1.75	0.01	0.71	0.06	0.78	0.00	0.02	0.02	5.85	5.86	0.15	0.05	10.20
TireWear	0.01	1.01	0.00	1.02	0.01	0.56	0.00	0.57	0.00	0.25	0.02	0.27	0.00	0.02	0.02	0.23	0.25	0.00	0.00	2.11
BrakeWr	0.01	1.59	0.00	1.60	0.01	0.88	0.01	0.90	0.00	0.36	0.02	0.38	0.00	0.02	0.02	0.19	0.21	0.01	0.01	3.10
Total	0.06	4.13	0.04	4.23	0.04	3.13	0.04	3.22	0.01	1.31	0.10	1.42	0.00	0.06	0.06	6.26	6.32	0.16	0.06	15.42
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.50	0.00	0.51	0.01	0.34	0.00	0.35	0.00	0.19	0.01	0.20	0.00	0.01	0.01	0.14	0.16	0.01	0.00	1.23
									sumption (000 gallon	s)									
Gasoline	75.47	5327.65	0.00	5403.13	55.79	3666.61	0.00		25.21	2071.53	0.00	2096.75	11.87	120.29	132.16	0.00	132.16	9.71		11391.81
Diesel	0.00	0.00	8.03	8.03	0.00	0.00	15.19	15.19	0.00	0.00	65.40	65.40	0.00	0.00	0.00	1355.56	1355.56	101.16	0.00	1545.34

Title : Crenshaw-Prairie Transit Version : Emfac2007 V2.3 Nov 1 2006 Run Date : 2008/01/30 15:29:19

Scen Year: 2030 -- All model years in the range 1986 to 2030 selected

Season : January

	T 4 m	ht Duty Pa	G			- Light Dut	Thougha			- Medium Du	ter Thomas		H				s Total HD	I I solo o so	Makan	All
	Non-cat	nt Duty Pa Cat	ssenger Ca Diesel	ars Total	Non-cat	- Light Dut	y irucks Diesel		Non-cat	- Medium Du Cat	Diesel	Total	Non-cat	Cat	Total	Trucks	Trucks	Urban Buses	Motor- cvcles	Vehicles
******	******	******	******			******	******	******	******	******	******	******	******	******	******	******	******	******	******	******
Vehicles		4001890.		4002150.		2217610.	1718.		0.		39215.	929479.	0.	85967.	85967.	111390.	197357.	5439.	178673.	
VMT/1000 Trips		127668. 24723600.	1100	127673. 24724800.	0.	76242. 13511000.	43.	76285. 13519100.	0. 0.	31776. 8715590.	1859. 490349.	33634. 9205940.	0. 0.	1765. 836623.	1765. 836623.	11757. 1996980.	13522. 2833610.	594. 21758.	1307.	253015. 50662400.
																		21730.		
									Organic Gas	Emissions										
Run Exh	0.00	2.68	0.00	2.68	0.00	3.06	0.00	3.07	0.00	1.62	0.18	1.80		0.15	0.15	3.24	3.39	0.33	4.40	15.66
Idle Exh Start Ex	0.00	0.00 2.14	0.00	0.00 2.14	0.00	0.00 2.21	0.00	0.00 2.21	0.00	0.16 2.49	0.01	0.16 2.49		0.04	0.04	0.65		0.00	0.00	0.85 8.49
Start Ex		2.14		2.14						2.49		2.49								0.49
Total Ex	0.00	4.82	0.00	4.82	0.00	5.27	0.00	5.28	0.00	4.27	0.18	4.45	0.00	0.79	0.79	3.88	4.68	0.37	5.42	25.01
Diurnal	0.00	0.54	0.00	0.54	0.00	0.55	0.00	0.55	0.00	0.22	0.00	0.22		0.00	0.00	0.00		0.00	0.14	1.45
Hot Soak	0.00	2.46	0.00	2.46	0.00	2.08	0.00	2.08	0.00	0.95	0.00	0.95		0.02	0.02	0.00		0.00	0.14	5.65
Running	0.00	6.84	0.00	6.84	0.00	9.33	0.00	9.33	0.00	5.36	0.00	5.36		0.31	0.31	0.00		0.03	0.56	22.43
Resting	0.00	0.59	0.00	0.59	0.00	0.65	0.00	0.65	0.00	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.58
Total	0.00	15.24	0.00	15.24	0.00	17.88	0.00	17.89	0.00	11.07	0.18	11.25	0.00	1.13	1.13	3.88	5.01	0.39	6.32	56.11
								Carbo	n Monoxide	Emissions										
Run Exh	0.00	82.03	0.00	82.03	0.00	89.66	0.03	89.70		43.44	1.52	44.96	0.00	4.17	4.17	18.43	22.60	2.58	35.44	277.30
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.04	0.98		0.26	0.26	3.92		0.00	0.00	5.16
Start Ex	0.00	34.63	0.00	34.63	0.00	34.62	0.00	34.62	0.00	34.27	0.00	34.27	0.00	10.47	10.47	0.00	10.47	0.41	4.92	119.33
Total Ex	0.00	116.66	0.00	116.66	0.00	124.29	0.03	124.32	0.00	78.65	1.56	80.21	0.00	14.91	14.91	22.35	37.26	2.99	40.36	401.79
									of Nitroge	n Emission										
Run Exh	0.00	7.13	0.01	7.13	0.00	9.17	0.07	9.24	0.00	5.53	3.17	8.70		1.01	1.01	33.72		5.38	1.80	66.99
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.12		0.00	0.00	8.21	8.22	0.00	0.00	8.34
Start Ex	0.00	1.52	0.00	1.52	0.00	1.94	0.00	1.94	0.00	7.52	0.00	7.52	0.00	1.19	1.19	0.00	1.19	0.06	0.13	12.35
Total Ex		8.64	0.01	8.65	0.00	11.11	0.07	11.18	0.00	13.06	3.28	16.34		2.20	2.20	41.94		5.44	1.93	87.68
								Carbon	Dioxide Emi	ssions (00	 O)									
Run Exh	0.00	54.45	0.00	54.45	0.00	41.66	0.02	41.68	0.00	23.98	1.06	25.05	0.00	1.37	1.37	22.51	23.88	1.17	0.25	146.47
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.04		0.01	0.01	0.43	0.44	0.00	0.00	0.48
Start Ex	0.00	1.91	0.00	1.91	0.00	1.33	0.00	1.33	0.00	0.83	0.00	0.83	0.00	0.03	0.03	0.00	0.03	0.00	0.02	4.12
Total Ex	0.00	56.35	0.00	56.36	0.00	42.99	0.02	43.01	0.00	24.85	1.07	25.91	0.00	1.41	1.41	22.94	24.35	1.18	0.27	151.07
									 PM10 Emissi	ons										
Run Exh	0.00	1.95	0.00	1.95	0.00	2.71	0.00	2.71		1.11	0.04	1.15		0.01	0.01	1.72		0.10	0.03	7.68
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.02		0.00	0.00	0.02
Start Ex	0.00	0.17	0.00	0.17	0.00	0.20	0.00	0.20	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
Total Ex	0.00	2.12	0.00	2.12	0.00	2.91	0.00	2.91	0.00	1.21	0.04	1.25	0.00	0.02	0.02	1.74	1.76	0.10	0.03	8.18
TireWear	0.00	1.13	0.00	1.13	0.00	0.67	0.00	0.67	0.00	0.31	0.02	0.33	0.00	0.02	0.02	0.35	0.38	0.01	0.01	2.52
BrakeWr	0.00	1.77	0.00	1.77	0.00	1.05	0.00	1.05	0.00	0.44	0.03	0.47	0.00	0.03	0.03	0.29	0.32	0.01	0.01	3.62
Total	0.00	5.02	0.00	5.02	0.00	4.64	0.00	4.64	0.00	1.95	0.09	2.05	0.00	0.07	0.07	2.39	2.46	0.11	0.05	14.32
T and		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lead SOx	0.00	0.54	0.00	0.54	0.00	0.41	0.00	0.41	0.00	0.24	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00 1.45
								Fuel Co	nsumption (000 gallon	s)									
Gasoline	0.00	5789.53	0.00	5789.53	0.00	4422.97	0.00	4422.97	0.00	2557.54	0.00	2557.54		146.95	146.95	0.00		20.52		12973.04
Diesel	0.00	0.00	0.16	0.16	0.00	0.00	1.47	1.47	0.00	0.00	96.16	96.16	0.00	0.00	0.00	2064.45	2064.45	88.10	0.00	2250.35



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EMFAC2007 RATES (gran	ns per mile)						
Vehicle Type	ROG	СО	NOX	SOX	PM10	PM2.5	CO2
Year 2016							
Haul Truck @ 30 MPH	0.546	3.156	5.75	0.015	0.258	0.237	1620.544
Water Truck @ 5 MPH	4.755	13.04	13.489	0.028	0.779	0.717	2946.429
Worker Vehicle @30 MPH	0.044	1.337	0.113	0.003	0.032	0.029	336.11
Light-Duty Trucks @ 30MPH	0.073	2.158	0.238	0.004	0.044	0.040	424.027
Assumptions:							
Construction Year	2018						
Season	Annual						
Temperature	63°F						

EQUIPMENT EMISSION I	FACTORS	(pounds pe	r hour)				
YEAR 2016							
	ROG	СО	NOX	sox	PM10	PM2.5	CO2
Excavator	0.0988	0.5213	0.6603	0.0013	0.0332	0.0306	120.0
Grader	0.1197	0.5883	0.8866	0.0015	0.0441	0.0406	133.0
Loader	0.0983	0.4557	0.7114	0.0012	0.0375	0.0345	109.0
Other Equipment	0.0720	0.3602	0.5680	0.0013	0.0234	0.0215	123.0
SOURCE: OFFROAD 2007							

Regional Construction Emissions (Sites 14, 15, and 17) - Unmitigated

EQUIPMENT					Equip	oment Emissions (ppd)		
	# Equ	ipment	ROG	со	NOX	sox	PM10	PM2.5	CO2
Excavator		2	1.98	10.43	13.21	0.03	0.66	0.61	2,400.00
Grader		4	4.79	23.53	35.46	0.06	1.76	1.62	5,320.00
Loader		2	1.97	9.11	14.23	0.02	0.75	0.69	2,180.00
	TOTAL	8	8.73	43.07	62.90	0.11	3.18	2.92	9,900.00

WORKER VEHICLES					Worker	Vehicle Emission	ıs (ppd)		
	# of Workers	Total VMT/Day	ROG	со	NOX	sox	PM10	PM2.5	CO2
	30	798.00	0.10	3.07	0.31	0.006	0.067	0.061	668.0
Cars	15.0	399.00	0.04	1.18	0.10	0.00	0.03	0.03	295.39
Trucks	15.0	399.00	0.06	1.90	0.21	0.00	0.04	0.04	372.66

HEAVY-DUTY TRUCK TRIPS						Heavy-duty Truck	k Emissions (ppd)			Ī
		Round Trip								
	Trips per Day	Length	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2
	75	20	1,500	1.80	10.43	19.00	0.05	0.85	0.78	5,354.22

WATER TRUCK USAGE [1]													
	# of Water Trucks	Hours of Operation	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2			
	3	1.00	15.00	0.16	0.43	0.45	0.00	0.03	0.02	97.35			

FUGITIVE DUST							
	Max Daily Grading (acres)						
	(acres)	PM10	PM2.5				
Grading [2]	10.00	149.0	31.0				
Stockpiling Parameters [3]	Silt Content	Precipitation Days	Mean Wind Speed Percent	TSP Fraction	Area (acres)	PM10	PM2.5
	6.9	10	100	0.5	0.42	6.450	1.342

ARCHITECTURAL COATING [4]						
	Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
Non-Residential	1	130,353	195,530	65,177	0.011579	137.22

TOTAL EMISSIONS			Emission	ns (ppd)		
	ROG	СО	NOX	sox	PM10	PM2.5
	148	57	82	0	160	36
On-Site	146	44	63	0	159	35
Off-Site	2	13	19	0	1	1
Regional Daily Maximum	148	57	82	0	160	36
THRESHOLD	75	550	100	150	150	55
IMPACT?	YES	NO	NO	NO	YES	NO

Greennous	e Gas Emissions	Calculation
CO2 (ppd)	Days	CO2 (Tons)
16,019.62	313	1,706

^[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403).

^[2] Used UREBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

^[3] Used SCAQMD's Sample 5-Acre Project Site calculation formulas for stockpiling and multplied by 2 to represent 10 acres.

Regional Construction Emissions (Sites 14, 15, and 17) - Mitigated

EQUIPMENT				Equi	oment Emissions	(ppd)		
	# Equipment	ROG	со	NOX	sox	PM10	PM2.5	CO2
Excavator	2	1.98	10.43	13.21	0.03	0.66	0.61	2,400.00
Grader	4	4.79	23.53	35.46	0.06	1.76	1.62	5,320.00
Loader	2	1.97	9.11	14.23	0.02	0.75	0.69	2,180.00
TOTAL	8	8.73	43.07	62.90	0.11	3.18	2.92	9,900.00

WORKER VEHICLES			Worker	Vehicle Emission	ıs (ppd)				
	# of Workers	Total VMT/Day	ROG	со	NOX	sox	PM10	PM2.5	CO2
	30	798.00	0.10	3.07	0.31	0.006	0.067	0.061	668.0
Cars	15.0	399.00	0.04	1.18	0.10	0.00	0.03	0.03	295.39
Trucks	15.0	399.00	0.06	1.90	0.21	0.00	0.04	0.04	372.66

HEAVY-DUTY TRUCK TRIPS						Heavy-duty Truck	k Emissions (ppd)			Ī
		Round Trip								
	Trips per Day	Length	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2
	75	20	1,500	1.80	10.43	19.00	0.05	0.85	0.78	5,354.22

WATER TRUCK USAGE [1]													
	# of Water Trucks	Hours of Operation	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2			
	3	1.00	15.00	0.16	0.43	0.45	0.00	0.03	0.02	97.35			

FUGITIVE DUST							
	Max Daily Grading (acres)						
	(40.00)	PM10	PM2.5				
Grading [2]	10.00	149.0	31.0				
Stockpiling Parameters [3]	Silt Content	Precipitation Days	Mean Wind Speed Percent	TSP Fraction	Area (acres)	PM10	PM2.5
	6.9	10	100	0.5	0.42	6.450	1.342

ARCHITECTURAL COATING [4]						
	Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
Non-Residential	1	130,353	195,530	65,177	0.011579	5.49

TOTAL EMISSIONS			Emission	ns (ppd)		
	ROG	СО	CO NOX		PM10	PM2.5
	16	57	82	0	160	36
On-Site	14	44	63	0	159	35
Off-Site	2	13	19	0	1	1
Regional Daily Maximum	16	57	82	0	160	36
THRESHOLD	75	550	100	150	150	55
IMPACT?	NO	NO	NO	NO	YES	NO

Greennous	Greenhouse Gas Emissions Calculation								
CO2 (ppd)	Days	CO2 (Tons)							
16,019.62	313	1,706							

^[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403).

^[2] Used UREBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

^[3] Used SCAQMD's Sample 5-Acre Project Site calculation formulas for stockpiling and multplied by 2 to represent 10 acres.

		Weight Conv. [a] 453.59	Time Adjustmer
Project Phase	<u>lb/day [c]</u>	<u>g/s</u>	
PM10	·		
1	155.4	1.96E+00	
PM2.5			
	32.3	4.07E-01	
[a] Weight conversion is the amount of grams	s per pound.	•	
[b] Time adjustment is the number of seconds	ls in 8 hours (1 day of grading).		
[c] Pounds per day emissions rate from const	struction emissions developed using Offroa	ad 2007 and EMFAC 2007 em	nissions factors.

Off-Road Equipment Emissions										
Daily Emissions (ppd)	СО	NO2 [1]	PM2.5	PM10						
	44	6	2.9	3.2						
Conversion to Grams/Sec	ond	NO2	PM2.5	PM10						
	0.5481	0.0798	0.0372	0.0404						

[1] Used 10% of NOX as NO2 value for input into AERMOD

Regional Construction Emissions (Division 22 Expansion) - Unmitigated

EQUIPMENT			_	Equip	oment Emissions	(ppd)		
	# Equipment	ROG	со	NOX	sox	PM10	PM2.5	CO2
Excavator	2	1.98	10.43	13.21	0.03	0.66	0.61	2,400.00
Grader	4	4.79	23.53	35.46	0.06	1.76	1.62	5,320.00
Loader	2	1.97	9.11	14.23	0.02	0.75	0.69	2,180.00
TOTAL	8	8.73	43.07	62.90	0.11	3.18	2.92	9,900.00

WORKER VEHICLES	WORKER VEHICLES				Worker Vehicle Emissions (ppd)					
	# of Workers	# of Workers Total VMT/Day		со	NOX	sox	PM10	PM2.5	CO2	
	30	798.00	0.10	3.07	0.31	0.006	0.067	0.061	668.0	
Cars	15.0	399.00	0.04	1.18	0.10	0.00	0.03	0.03	295.39	
Trucks	15.0	399.00	0.06	1.90	0.21	0.00	0.04	0.04	372.66	

HEAVY-DUTY TRUCK TRIPS Heavy-duty Truck Emissions (ppd)										Ī
	Round Trip									
	Trips per Day	Length	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2
	35	20	700	0.84	4.87	8.87	0.02	0.40	0.37	2,498.64

WATER TRUCK USAGE [1]	ATER TRUCK USAGE [1] Heavy-duty Truck Emissions (ppd)										
	# of Water Trucks	Hours of Operation	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2	
	1	1.00	5.00	0.05	0.14	0.15	0.00	0.01	0.01	32.45	

FUGITIVE DUST							
	Max Daily Grading (acres)						
	(,	PM10	PM2.5				
Grading [2]	3.50	52.1	10.8				
Stockpiling Parameters [3]	Silt Content	Precipitation Days	Mean Wind Speed Percent	TSP Fraction	Area (acres)	PM10	PM2.5
	6.9	10	100	0.5	0.16	2.460	0.512

ARCHITECTURAL COATING [4]										
	Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)				
Non-Residential	1	43,451	65,177	21,726	0.011579	45.74				

TOTAL EMISSIONS			Emission	ns (ppd)		
	ROG	СО	NOX	SOX	PM10	PM2.5
	56	51	72	0	58	14
On-Site	55	43	63	0	58	14
Off-Site	1	8	9	0	0	0
Regional Daily Maximum	56	51	72	0	58	14
THRESHOLD	75	550	100	150	150	55
IMPACT?	NO	NO	NO	NO	NO	NO

Greenhouse Gas Emissions Calculation									
CO2 (ppd)	Days	CO2 (Tons)							
13,099.14	313	1,666							

^[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403).

^[2] Used UREBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

^[3] Used SCAQMD's Sample 5-Acre Project Site calculation formulas for stockpiling and multplied by 2 to represent 10 acres.

Regional Construction Emissions (Division 22 Expansion) - Mitigated

EQUIPMENT				Equi	pment Emissions	(ppd)		
	ROG	со	NOX	sox	PM10	PM2.5	CO2	
Excavator	2	1.98	10.43	13.21	0.03	0.66	0.61	2,400.00
Grader	4	4.79	23.53	35.46	0.06	1.76	1.62	5,320.00
Loader	2	1.97	9.11	14.23	0.02	0.75	0.69	2,180.00
TOTAL	8	8.73	43.07	62.90	0.11	3.18	2.92	9,900.00

WORKER VEHICLES	Worker Vehicle Emissions (ppd)								
	# of Workers	Total VMT/Day	ROG	ROG CO		NOX SOX		PM10 PM2.5	
	30	798.00	0.10	3.07	0.31	0.006	0.067	0.061	668.0
Cars	15.0	399.00	0.04	1.18	0.10	0.00	0.03	0.03	295.39
Trucks	15.0	399.00	0.06	1.90	0.21	0.00	0.04	0.04	372.66

HEAVY-DUTY TRUCK TRIPS						Heavy-duty Truck	k Emissions (ppd)			Ī
		Round Trip								
	Trips per Day	Length	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2
	35	20	700	0.84	4.87	8.87	0.02	0.40	0.37	2,498.64

WATER TRUCK USAGE [1]	Heavy-duty Truck Emissions (ppd)									
	# of Water Trucks	Hours of Operation	VMT/day	ROG	со	NOX	sox	PM10	PM2.5	CO2
		1.00	5.00	0.05	0.14	0.15	0.00	0.01	0.01	32.45

FUGITIVE DUST							
	Max Daily Grading (acres)						
	(,	PM10	PM2.5				
Grading [2]	3.50	52.1	10.8				
Stockpiling Parameters [3]	Silt Content	Precipitation Days	Mean Wind Speed Percent	TSP Fraction	Area (acres)	PM10	PM2.5
	6.9	10	100	0.5	0.16	2.460	0.512

ARCHITECTURAL COATING [4]						
	Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
Non-Residential	1	43,451	65,177	21,726	0.011579	45.74

TOTAL EMISSIONS			Emission	ns (ppd)		
	ROG	СО	NOX	SOX	PM10	PM2.5
	56	51	72	0	58	14
On-Site	55	43	63	0	58	14
Off-Site	1	8	9	0	0	0
Regional Daily Maximum	56	51	72	0	58	14
THRESHOLD	75	550	100	150	150	55
IMPACT?	NO	NO	NO	NO	NO	NO

Greenhous	Greenhouse Gas Emissions Calculation										
CO2 (ppd)	Days CO2 (Tons)										
13,099.14	313	1,666									

^[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403).

^[2] Used UREBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

^[3] Used SCAQMD's Sample 5-Acre Project Site calculation formulas for stockpiling and multplied by 2 to represent 10 acres.

		Weight Conv. [a]	Time Adjustment
		453.59	36,0
Project Phase	lb/day [c]	<u>g/s</u>	
PM10			
	54	6.88E-01	
PM2.5			
	11	.4 1.43E-01	
[a] Weight conversion is the amount of grams	s per pound.		
[b] Time adjustment is the number of second	s in 8 hours (1 day of grading).		
[c] Pounds per day emissions rate from cons	truction emissions developed using Off	road 2007 and EMFAC 2007 em	issions factors.

Off-Road Equipment Emissions											
Daily Emissions (ppd)	СО	NO2 [1]	PM2.5	PM10							
	9	6	2.9	3.2							
Conversion to Grams/Sec	cond	NO2	PM2.5	PM10							
	0.1118	0.0794	0.0370	0.0402							

[1] Used 10% of NOX as NO2 value for input into AERMOD

Page: 1

8/28/2008 12:47:14 PM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name:

Project Name: Crenshaw Construction Paving Emissions

Project Location: Los Angeles County

On-Road Vehicle Emissions Based on: Version: Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	<u>NOx</u>	CO	<u>SO2</u>	PM10 Dust PM10 Ex	<u>khaust</u>	<u>PM10</u>	PM2.5 Dust	PM2.5 Exhaust	<u>PM2.5</u>	<u>CO2</u>
2013 TOTALS (lbs/day unmitigated)	5.06	24.01	13.13	0.01	0.04	1.59	1.63	0.01	1.46	1.47	3,061.97

Page: 2 8/28/2008 12:47:15 PM

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10 Dust	PM10 Exhaust	<u>PM10</u>	PM2.5 Dust	PM2.5 Exhaust	PM2.5	<u>CO2</u>
Time Slice 8/1/2013-8/1/2013 Active Days: 1	<u>5.06</u>	<u>24.01</u>	<u>13.13</u>	<u>0.01</u>	<u>0.04</u>	<u>1.59</u>	<u>1.63</u>	<u>0.01</u>	<u>1.46</u>	<u>1.47</u>	<u>3,061.97</u>
Asphalt 08/01/2013-08/01/2013	5.06	24.01	13.13	0.01	0.04	1.59	1.63	0.01	1.46	1.47	3,061.97
Paving Off-Gas	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.74	18.34	9.97	0.00	0.00	1.36	1.36	0.00	1.25	1.25	1,887.90
Paving On Road Diesel	0.49	5.62	2.28	0.01	0.03	0.22	0.26	0.01	0.21	0.22	1,049.80
Paving Worker Trips	0.03	0.05	0.88	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.28

Phase Assumptions

Phase: Paving 8/1/2013 - 8/1/2013 - Default Paving Description

Acres to be Paved: 0.69
Off-Road Equipment:

1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day

3 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 14\CO.ADI

**
 .....
 ** AERMOD Control Pathway
CO STARTING
      STARTING
TITLEONE Site 14 - CO
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 8
URBANOPT 9862049 Los_Angeles_County
      POLLUTID CO
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
SO STARTING

** Source Location **

*Source ID - Type - X Coord. - Y Coord. **

Location Vol. VoluME 372476.979 3757462.373 0.0

** DESCRSRC Equipment

** Source Parameters **

SRCPARAW Vol.1 0.5481 4.100 46.783 1.163

URBANSRC Vol.1

CONCUNIT 873.2 GRAMS/SEC PPM

SRCGROUP ALL

SO FINISHED

**
 SO STARTING
 **************
RE STARTING
     GRIDCART UCART1 STA
                                 XYINC 371696.85 50 30.00 3756641.16 50 30.00
      GRIDCART UCART1 END
     GRIDCART UCARTI END
DESCRRC "-""
DISCCART 372149.67 3757202.57
DISCCART 372200.97 3757196.42
DISCCART 372204.43 3757083.57
DISCCART 372746.74 3757147.17
DISCCART 372767.26 3757192.31
DISCCART 372874.46 3757118.45
DISCCART 372874.46 3757725.77
FUNINIED
DISCCART 372767.26 3757192.31
DISCCART 372894.46 3757118.45
DISCCART 372371.27 3757725.77
RE FINISHED
 ** AERMOD Meteorology Pathway
**
ME STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFFASE 10 METERS
ME FINISHED
**
 ************
 ** AERMOD Output Pathway
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST

** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED
  *******
  *** SETUP Finishes Successfully ***
  10/26/10
  **MODELOPTS: NonDFAULT CONC
                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                      *** MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
          DEPOSITION LOGIC -
  **NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**MOO PARTICLE DEPOSITION DATA PROVIDED:
**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F
  **Model Uses URBAN Dispersion Algorithm for the SBL for $\tt 1 Source(s)\tt,
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
```

```
**Model Allows User-Specified Options:
                       1. Stack-tip Downwash.
                       1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
**This Run Includes: 1 Source(s); 1 Source Group(s); and 2507 Receptor(s)
**The Model Assumes A Pollutant Type of: CO
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                            m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = Output Units = PPM
**Approximate Storage Requirements of Model = 3.9 MB of RAM.
                                                                                                                                                                                                                                                                                                                                                                  10/26/10
14:37:09
PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                                                                  *** VOLUME SOURCE DATA ***
                                                                                                                                                                                     RELEASE INIT. INIT. URBAN EMISSION RATE HEIGHT SY SZ SOURCE SCALAR VARY
                                                                                                                                                             BASE
                                      NUMBER EMISSION RATE
                                         NUMBER EMIDSIANS FALE
PART. (USER UNITS) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
            SOURCE
              ID
                                                                                                                                                                                                                                                                                                              BY
         70L1 0 0.54810E+00 372477.0 3757462.4
* AERMOD - VERSION 09292 *** *** Site 14 - CO
                                                                                                                                                                                                                                                                                                                                                                  10/26/10
14:37:09
                                                                                                                                                                                                                                                                                                                                                                  PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                FLAT
                                                                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                                                                             *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                                       SOURCE IDs
ALL VOL1 ,
*** AERMOD - VERSION 09292 ***
                                                                                                      *** Site 14 - CO
                                                                                                                                                                                                                                                                                                                                                                    14:37:09
                                                                                                                                                                                                                                                                                                                                                                  PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                FLAT
                                                                                                                                                                                                NODRYDPIAT NOWETDPIAT
                                                                                                                   *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                         *** X-COORDINATES OF GRID ***
                                                                                                                                                         (METERS)
                 371696.8, 371726.8, 371756.8, 371786.8, 371816.8, 371846.8, 371846.8, 371906.8, 371906.8, 371936.8, 371996.8, 371996.8, 37206.8, 37206.8, 372086.8, 37216.8, 372146.8, 372146.8, 372176.8, 372206.8, 372236.8, 372236.8, 37236.8, 372416.8, 372446.8, 372476.8, 372506.8, 372536.8, 372566.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 372596.8, 
                                                                                                                          *** Y-COORDINATES OF GRID ***
                                                                                                                                                        (METERS)
              3756641.2, 3756671.2, 3756701.2, 3756731.2, 3756761.2, 3756791.2, 3756821.2, 3756851.2, 3756881.2, 3756981.2, 3756941.2, 3756941.2, 3756941.2, 3757001.2, 3757001.2, 3757001.2, 3757001.2, 3757101.2, 3757101.2, 3757101.2, 3757211.2, 3757211.2, 3757211.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3757301.2, 3753001.2, 3753001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 3758001.2, 
10/26/10
                                                                                                                                                                                                                                                                                                                                                                    14:37:09
                                                                                                                                                                                                                                                                                                                                                                   PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                                                     *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                             (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)
            ( 372149.7, 3757202.6,
( 372734.4, 3757083.6,
( 372767.3, 3757192.3,
( 372371.3, 3757725.8,
                                                                                               10.0,
10.0,
10.0,
                                                                                                                               10.0,
10.0,
10.0,
                                                                                                                                                                                                              ( 372201.0, 3757196.4,
( 372746.7, 3757147.2,
( 372894.5, 3757118.4,
                                                                                                                                                                    0.0);
                                                                                                                                                                                                                                                                                                                                   10.0,
                                                                                                                                                                                                                                                                                                                                                                       0.0);
                                                                                               10.0, 10.0,

*** Site 14 - CO
                                                                                                                                                                    0.0);
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                  10/26/10
                                                                                                                                                                                                                                                                                                                                                                  14:37:09
                                                                                                                                                                                                                                                                                                                                                                  PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                               FLAT
NODRYDPLT NOWETDPLT
```

^{*} SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED * LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

```
SOURCE -- RECEPTOR LOCATION --
ID XR (METERS) YR (METERS)
                                                                                                                                                    (METERS)
                                                                                         372476 8
                                                         VOL1
                                                                                           372476.8
                                                                                                                                                       -29.37
                                                         VOL1
                                                                                           372506.8
                                                                                                                   3757391.2
                                                                                                                                                      -23.36
                                                                                          372506.8
372536.8
372386.8
372416.8
372446.8
                                                         VOI-1
                                                                                                                   3757391.2
                                                                                                                                                         -7.55
-1.48
                                                                                                                   3757421 2
                                                                                                                  3757421.2
3757421.2
3757421.2
3757421.2
                                                         VOL1
VOL1
                                                                                                                                                       -49.53
-59.37
                                                         VOL1
                                                                                                                                                        -49.68
                                                         VOL1
                                                                                           372506.8
372536.8
                                                         VOL1
                                                                                                                   3757421.2
                                                                                                                                                       -27.90
                                                                                          372536.8
372566.8
372386.8
372416.8
372446.8
372476.8
                                                         VOT-1
                                                                                                                   3757421.2
                                                                                                                                                         -1.71
-9.76
                                                                                                                  3757421.2
3757451.2
3757451.2
3757451.2
3757451.2
3757451.2
                                                         VOL1
VOL1
VOL1
VOL1
                                                                                                                                                       -9.76
-39.42
-68.44
-89.37
-68.68
                                                         VOL1
                                                         VOL1
                                                                                          372536.8
                                                                                                                  3757451.2
                                                                                                                                                        -39.67
                                                                                          372536.8
372566.8
372386.8
372416.8
372446.8
372476.8
                                                                                                                  3757451.2
3757451.2
3757481.2
3757481.2
3757481.2
3757481.2
                                                                                                                                                       -39.67
-10.02
-8.52
-37.59
-65.08
-81.80
                                                         VOT-1
                                                         VOL1
VOL1
VOL1
VOL1
                                                         VOL1
                                                                                                                                                        -65.30
                                                         VOL1
                                                                                          372536.8
372566.8
                                                                                                                  3757481.2
                                                                                                                                                       -37.83
                                                         VOL1
                                                                                                                   3757481.2
                                                                                                                                                          -8.77
                                                         VOL1
VOL1
VOL1
                                                                                           372416.8
372446.8
372476.8
                                                                                                                  3757511.2
3757511.2
3757511.2
                                                                                                                                                       -23.15
-43.24
-51.80
                                                                                                                   3757511.2
                                                                                                                                                        -43.38
                                                         VOL1
                                                                                           372506.8
                                                         VOL1
                                                                                           372536.8
                                                                                                                   3757511.2
                                                                                                                                                       -23.35
                                                         VOL1
                                                                                           372416.8
                                                                                                                   3757541.2
                                                                                                                                                         -1.47
                                                                                           372446.8
                                                                                                                   3757541.2
                                                                                                                                                       -16.23
                                                         VOI-1
                                                                                           372476.8
372506.8
                                                                                                                  3757541.2
3757541.2
                                                                                                                                                       -21.80
-16.32
 *** AERMOD - VERSION 09292 *** *** Site 14 - CO
                                                                                           372536.8
                                                                                                                 3757541.2
                                                                                                                                                         -1.63
                                                                                                                                                                                                                            14:37:09
                                                                                                                                                                                                                            PAGE
                                                                                                                     FLAT
NODRYDPLT NOWETDPLT
 **MODELOPTS: NonDEAULT CONC
                                                                                *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)
                    NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                              *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                                                               (METERS/SEC)
10/26/10
                                                                                                                                                                                                                           PAGE
 **MODELOPTS: NonDFAULT CONC
                                                                                                                       FLAT
                                                                                                                       NODRYDDIA NOWETDDIA
                                                                *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
    Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
     Profile format: FREE
    Profile format. FREE
Surface station no.:
Name: UNKNOWN
Year: 2005
                                                             Upper air station no.: :
Name: UNKNC
Year: 200
First 24 hours of scalar data
YR MO DY JDY HR HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO

05 01 01 1 1 01 -3.3 0.062 -9.000 -9.000 -999. 35. 6.5 0.26
05 01 01 1 02 -3.9 0.073 -9.000 -9.000 -999. 35. 6.5 0.26
05 01 01 1 1 03 -2.7 0.056 -9.000 -9.000 -999. 30. 5.9 0.26
05 01 01 1 1 04 -2.3 0.056 -9.000 -9.000 -999. 30. 6.8 0.26
05 01 01 1 1 04 -2.3 0.056 -9.000 -9.000 -999. 30. 6.8 0.26
05 01 01 1 0 05 -2.8 0.062 -9.000 -9.000 -999. 30. 6.8 0.26
05 01 01 1 0 06 -5.3 0.078 -9.000 -9.000 -999. 51. 8.2 0.26
05 01 01 1 0 7 -3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26
05 01 01 1 0 8 -4.9 0.078 -9.000 -9.000 -999. 51. 8.2 0.26
05 01 01 1 0 8 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26
05 01 01 1 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26
05 01 01 1 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26
05 01 01 1 1 1 1 144 0.223 1.397 0.005 862 365. -19.9 0.26
05 01 01 1 1 1 1 139.9 0.299 1.673 0.010 1212. 376. -17.3 0.26
05 01 01 1 1 2 15.0 0.122 0.797 0.010 1215. 125. -10.8 0.26
05 01 01 1 1 3 28.1 0.223 0.983 0.010 1212. 241. -354 0.28
                                                             W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD
                                                                                                                                                                                             HT REF TA
                                                                                                                                                                                                                         HT
                                                                                                                                     1.00
                                                                                                                                                     1 00
                                                                                                                                        1.00
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                                                                                                                                                     1.00
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                                                                                                                                                                                 62.
                                                                                                                                                                                                       281.4
                                                                                                                                        1.00
                                                                                                                                                     1.00
                                                                                                                                                                    1.40
                                                                                                                                                                                                       280.9
                                                                                                                                                     1.00
1.00
0.53
0.30
0.22
0.19
0.18
                                                                                                                                                                                55.
76.
78.
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9.1
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1.00
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1.00
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280.9
283.1
284.9
287.0
                                                                                                                                        1.00
                                                                                                                                                                    0.80
                                                                                                                                                                                 30.
                                                                                                                                                                                                       287.0
                                 15.0 0.122 0.797 0.010 1215.
28.1 0.223 0.983 0.010 1225.
27.9 0.256 0.847 0.009 1225.
4.2 0.231 0.521 0.009 1226.
0.1 0.180 0.151 0.009 1226.
-1.7 0.045 -9.000 -9.000 -999.
-0.6 0.028 -9.000 -9.000 -9.999.
 05 01 01
                     1 13
                                                                                                241.
                                                                                                               -35.4
                                                                                                                          0.26
                                                                                                                                        1.00
                                                                                                                                                     0.18
                                                                                                                                                                    1.70 184.
                                                                                                                                                                                              9.1
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0.19
0.22
0.31
0.57
1.00
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0.26
0.26
0.26
                                                                                                                                        1.00
1.00
1.00
1.00
      01 01
                                                                                                298
                                                                                                               -84.4
                                                                                                                                                                    2.10
                                                                                                                                                                               201
 05 01 01
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                                                                                                                           0.26
                                                                                                                                        1.00
                                                                                                                                                                    0.50
                                                                                                                                                                                38.
                                                                                                                                                                                                        285.4
                                                                                                                                                                               261.
 05 01 01
                     1 19
                                                                                                   8.
                                                                                                                           0.26
                                                                                                                                        1.00
                                                                                                                                                                    0.40
                                                                                                                                                                                                       284.9
 05 01 01
                     1 20
                                 -0.4 0.022 -9.000 -9.000 -999.
-1.5 0.045 -9.000 -9.000 -999.
                                                                                                                  2.8 0.26
5.5 0.26
                                                                                                                                        1.00
                                                                                                                                                     1.00
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                                                                                                                                                                               337.
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 05 01 01
                     1 21
                                                                                                22.
                                                                                                                                        1.00
                                                                                                                                                     1.00
                                                                                                                                                                                                       284.9
                                 -1.5 0.045 -9.000 -9.000 -999.
-1.9 0.050 -9.000 -9.000 -999.
-1.5 0.045 -9.000 -9.000 -999.
First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
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*** Site 14 - CO
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                             *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                             INCLUDING SOURCE(S):
                                                                                                                                                                                                                             VOL1 ,
                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                 ** CONC OF CO
                                                                                                                                                                                                                IN PPM
                                             X-COORD (METERS)
371696.85 371726.85 371756.85 371786.85
    Y-COORD
0.04092 (05010409)
0.04386 (05010409)
0.04386 (05010409)
0.04330 (05010409)
0.04332 (07090907)
0.05201 (07090907)
0.05854 (07090907)
0.06148 (07090907)
0.06000 (07090907)
0.04505 (07090907)
0.04505 (07090907)
0.04505 (07090907)
0.02947 (06090102)
0.02981 (06090102)
0.02981 (06090102)
0.02981 (06100301)
0.03125 (06100301)
0.03126 (06100301)
0.03366 (06100301)
0.03268 (06100301)
0.03268 (06100301)
0.03268 (06100301)
0.03268 (06100301)
0.03268 (06100301)
0.03268 (06100301)
0.03268 (06100301)
0.03276 (07081605)
0.03190 (07110908)
0.03763 (07110908)
0.03763 (07110908)
0.03763 (07110908)
0.03763 (07110908)
0.03360 (06070206)
0.03797 (06070206)
0.03797 (06070206)
0.03797 (06070206)
0.03797 (06070206)
0.03692 (07082903)
0.03269 (07082903)
                                                                                                                                                                                                                                                                                                                                          0.03754 (05010409)

0.04238 (05010409)

0.04512 (05010409)

0.04511 (05010409)

0.04704 (07090907)

0.05562 (07090907)

0.06231 (07090907)

0.05200 (07090907)

0.05200 (07090907)

0.04154 (07090907)

0.03160 (07090907)

0.03160 (06090102)

0.03026 (07090907)

0.03160 (06090102)

0.03026 (06100524)
                                                             0.04130 (05010409)

0.04504 (07090907)

0.05241 (07090907)

0.05738 (07090907)

0.05887 (07090907)

0.05640 (07090907)

0.05025 (07090907)

0.04149 (07090907)

0.03162 (07090907)
                                                                                                                                                        0.05563 (07090907)
0.04797 (07090907)
0.03814 (07090907)
  3757901.2
                                                                                                                                                                                                                                                                                                                                                                                                                                       0.06391 (07090907)
 3757871.2
                                                                                                                                                                                                                                                                                                                                                                                                                                       0.06375 (07090907)
0.05848 (07090907)
  3757841.2
                                                               0.03102 (07090907)
0.02654 (06090102)
0.02721 (06090102)
0.02532 (06090102)
                                                                                                                                                        0.02785 (07090907)
0.02856 (06090102)
0.02767 (06090102)
0.02585 (06120524)
                                                                                                                                                                                                                                                                                                                                                                                                                                       0.04908 (07090907)
0.03750 (07090907)
0.03292 (06090102)
  3757811.2
                                                               0.02588 (06120524)
0.02814 (06120524)
  3757721.2
                                                                                                                                                                                                                                                                                                                                                                                                                                        0.03276 (06090102)
                                                                                                                                                        0.02909 (06120524)

0.02909 (06120524)

0.03083 (06100301)

0.03078 (06100301)

0.03155 (07091603)

0.03027 (05042101)

0.03147 (07081605)

0.03138 (07110908)
 3757691.2
                                                                                                                                                                                                                                                                                                                                               0.03024 (06120524)
                                                                                                                                                                                                                                                                                                                                                                                                                                        0.03036 (06120524)
                                                                                                                                                                                                                                                                                                                                                                                                                                      0.03406 (06120524)

0.03406 (06120524)

0.03621 (06100301)

0.03628 (07091603)

0.03589 (07091603)

0.03611 (07081605)

0.03526 (07081605)
                                                                                                                                                                                                                                                                                                                                            0.03267 (06120524)
0.03450 (06100301)
0.03475 (07091603)
0.03455 (07091603)
0.03455 (07081605)
0.03450 (07081605)
0.03381 (07081605)
0.03848 (07110908)
0.04080 (07110908)
0.03528 (06070206)
0.03528 (06070206)
0.03528 (06070206)
0.03847 (07082903)
0.03849 (07082903)
0.03849 (07082903)
 3757661.2
                                                             0.02974 (05100301)
0.02944 (07091603)
0.02994 (07091603)
0.02991 (05042101)
0.03005 (07081605)
0.03606 (07110908)
0.03606 (07110908)
0.03616 (07110908)
0.03616 (07110908)
0.03616 (07110908)
0.03561 (06070206)
0.03581 (06070206)
0.03699 (06070206)
0.03394 (07082903)
0.03208 (07082903)
                                                                0.02974 (06100301)
                                                                                                                                                                                                                                                                                                                                               0.03267 (06120524)
  3757631.2
3757601.2
3757571.2
3757541.2
  3757511.2
                                                                                                                                                                                                                                                                                                                                                                                                                                      0.03936 (07110908)

0.03936 (07110908)

0.04177 (07110908)

0.03593 (07110908)

0.03699 (06070206)

0.04043 (06070206)

0.04090 (07082903)

0.03925 (07082903)
  3757481.2
                                                                                                                                                         0.03683 (07110908)
                                                                                                                                                        0.03683 (07110908)
0.03900 (07110908)
0.03728 (07110908)
0.03217 (07110908)
0.03701 (06070206)
0.03733 (06070206)
0.03549 (07082903)
  3757451.2
3757421.2
 3757391.2
3757361.2
3757331.2
3757301.2
                                                                                                                                                                                                                                                 0.03692 (07082903)
0.03269 (07082903)
0.03158 (05101822)
0.03440 (07030608)
0.03567 (07030608)
0.03252 (07030608)
0.03252 (07030608)
0.02926 (06111722)
0.02838 (06111722)
0.03381 (06053107)
0.033810 (06053107)
0.04644 (07070106)
                                                                                                                                                                                                                                                                                                                                            0.03819 (07082903)
0.03389 (05101822)
0.03233 (05101822)
0.03648 (07030608)
0.03543 (07030608)
0.03543 (07030608)
0.03064 (07030608)
0.03063 (06111722)
0.03271 (06053107)
0.03780 (06053107)
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0.03566 (05101822)

0.03493 (07030608)

0.03823 (07030608)

0.03798 (07030608)

0.03248 (06111722)

0.03123 (06111722)

0.03123 (06053107)
                                                                                                                                                       0.03250 (07082903)

0.03250 (07082903)

0.03056 (05101822)

0.03210 (07030608)

0.03536 (07030608)

0.03537 (07030608)

0.03334 (07030608)
 3757271.2
                                                                0.03208 (07082903)
0.02933 (05101822)
 3757241.2
                                                              0.02933 (05101822)
0.02968 (07030608)
0.03368 (07030608)
0.03518 (07030608)
0.03392 (07030608)
0.03032 (07030608)
 3757241.2
3757211.2
3757181.2
3757151.2
  3757091.2
                                                                                                                                                         0.02875 (07030608)
                                                               0.02654 (06111722)
0.02593 (06111722)
0.03096 (06053107)
  3757061.2
                                                                                                                                                         0.02778 (06111722)
  3757031.2
                                                                                                                                                         0.02967 (06053107)
                                                                                                                                                                                                                                                                                                                                                                                                                                        0.04411 (07070106)
0.05408 (07070106)
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                                                                                                                                                         0.03477 (06053107)
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 3756941.2 | 0.03532 (06053107) 0.03861 (07070106) 3756941.2 | 0.03981 (07070106) 0.04731 (07070106) *** AERMOD - VERSION 09292 *** *** Site 14 - CO
                                                                                                                                                                                                                                                                                                                                                                                                                                       0.06267 (07070106)
0.06887 (07070106)
10/26/10
14:37:09
                                                                                                                                                                                                                                                                                                                                                                                                                                                         14:37:09
                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAGE 10
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                FLAT
                                                                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                             *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                                                                                                                                             VOL1 ,
                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                              ** CONC OF CO IN PPM
                                            X-COORD (METERS)
371696.85 371726.85 371756.85 371786.85 371816.85
                                                   0.04801 (07070106) 0.05520 (07070106) 0.06198 (07070106) 0.06778 (07070106) 0.07199 (07070106) 0.05526 (07070106) 0.06146 (07070106) 0.06664 (07070106) 0.07026 (07070106) 0.07184 (07070106) 0.06885 (07070106) 0.06885 (07070106) 0.06895 (07070106) 0.06895 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06897 (07070106) 0.06574 (07070106) 0.06788 (07070106) 0.06642 (07070106) 0.06397 (07070106) 0.06597 (07070106) 0.06574 (07070106) 0.06574 (07070106) 0.06574 (07070106) 0.0697 (07070106) 0.0697 (07070106) 0.06597 (07070106) 0.06598 (07070106) 0.0699 (07070106) 0.05984 (07070106) 0.0699 (07070106) 0.04781 (07070106) 0.0599 (07070106) 0.0599 (07070106) 0.0599 (07070106) 0.0599 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.0599 (07070106) 0.0599 (07070106) 0.04781 (07070106) 0.0599 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.0599 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.04781 (07070106) 0.0478
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          14:37:09
                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAGE 11
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                            *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                              ** CONC OF CO IN PPM
                                             X-COORD (METERS)
371846.85 371876.85 371906.85 371936.85 371966.85
                                                 0.04156 (06090407) 0.05009 (06090407) 0.05719 (06090407) 0.06160 (06090407) 0.06231 (06090407) 0.03437 (06090407) 0.04360 (06090407) 0.05245 (06090407) 0.05958 (06090407) 0.06361 (06090407) 0.04067 (05010409) 0.04360 (06090407) 0.04581 (06090407) 0.05947 (06090407) 0.05207 (06090407) 0.04584 (05010409) 0.04237 (05010409) 0.03793 (06090407) 0.04818 (06090407) 0.05576 (06090407) 0.04766 (05010409) 0.04713 (05010409) 0.04418 (05010409) 0.03993 (06090407) 0.05606 (05010409) 0.05703 (06090407) 0.05606 (05010409) 0.04713 (05010409) 0.04818 (05010409) 0.04608 (05010409) 0.04571 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (06090407) 0.055073 (0609040
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0.05238 (05010409)
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3757991.2 |
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0.04542 (07090907)
0.03363 (06090102)
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0.06317 (07090907)
0.05362 (07090907)
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0.06837 (07090907)
0.06149 (07090907)
0.04986 (07090907)
3757841.2 |
3757811.2 |
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0.03596 (06120524)
 3757751.2
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0.04428 (06090102)
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 3757631.2
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 3757601.2
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3757571.2
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0.04179 (07110908)
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 3757541 2
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                                                                                (05042101)
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0.04279 (07110908)
0.04019 (07110908)
3757511.2
3757481.2
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0.04386 (07110908)
 3757451.2
 3757421.2
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0.03838 (05101822)

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 3757391.2
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 3757361.2
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0.04327 (07082903)
0.04007 (07082903)
0.03718 (05101822)
0.03748 (07030608)
0.03953 (07030608)
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0.04764 (07082903)
0.04229 (05101822)
0.03922 (07031304)
0.04151 (07030608)
0.04027 (07030608)
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0.04951 (07082903)
0.04461 (05101822)
0.04295 (07031304)
0.04314 (06060203)
0.04169 (07012320)
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 3757211.2
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3757181.2
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 3757151.2
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0.03401 (06111722)
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14:37:09
PAGE 12
 *** AERMOD - VERSION 09292 ***
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                             *** THE
                                                                                                                           1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                         INCLUDING SOURCE(S):
                                                                                                                                                                                             VOL1
                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                         ** CONC OF CO IN PPM
                                                    X-COORD (METERS)
371846.85 371876.85 371906.85 371936.85
   Y-COORD
                                                                                                                                                                                                                                                                                                                                                                       371966.85

        0.07406 (07070106)
        0.07357 (07070106)
        0.07034 (07070106)
        0.06451 (07070106)

        0.07105 (07070106)
        0.06775 (07070106)
        0.06211 (07070106)
        0.05456 (07070106)

        0.06533 (07070106)
        0.05987 (07070106)
        0.05270 (07070106)
        0.04637 (06090207)

        0.05779 (07070106)
        0.05096 (07070106)
        0.04541 (06090207)
        0.04201 (06090207)

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0.05270 (07070106)
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0.03616 (06090207)
0.03620 (060990207)
0.02424 (06090207)
0.02427 (05050324)
0.02231 (07070203)
                                                                                                                                 0.06775 (07070106)
0.05787 (07070106)
0.05987 (07070106)
0.05096 (07070106)
0.04448 (06090207)
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0.03603 (06090207)
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3756881.2
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14:37:09
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                            *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL
                                                                                                       INCLUDING SOURCE(S):
                                                                                                                                                                                             VOL1
                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                        ** CONC OF CO IN PPM
                                        X-COORD (METERS)
371996.85 372026.85 372056.85 372086.85
   Y-COORD |
(METERS) |
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                                                                                                           10/26/10
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                     NODRYDPLT NOWETDPLT
                                                                                                 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                         VOL1 ,
                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                   ** CONC OF CO
                                                                                                                                                         X-COORD (METERS)
   Y-COORD
  Y-COORD (METERS)
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14:37:09
                                                                                                                                                                                                                                                                                                                     PAGE
**MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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 *** AERMOD - VERSTON 09292 ***
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14:37:09
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                     1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                          VOL1
                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                 ** CONC OF CO IN PPM
                                                                                                                                                          X-COORD (METERS)
  Y-COORD |
(METERS) |
                                          372146.85 372176.85 372206.85 372236.85 372266.85
                                          0.04268 (07070203) 0.04375 (06041124) 0.04400 (07072705) 0.04390 (06090606) 0.04537 (06090606) 0.04658 (06091606) 0.04658 (06091606) 0.04658 (06091606) 0.04658 (06091606) 0.03894 (06041124) 0.03944 (05102108) 0.04045 (07032008) 0.04067 (06090606) 0.03822 (06090204) 0.03647 (05102108) 0.03926 (05102108) 0.0398 (07032008) 0.03790 (06090606) 0.03559 (05042905) 0.03742 (05102108) 0.03848 (07032008) 0.03673 (07032008) 0.03467 (06090606) 0.03433 (05042905)
                                          0.04268 (070702U3)
0.04069 (06041124)
0.03894 (06041124)
0.03647 (05102108)
0.03742 (05102108)
0.03741 (05102108)
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0.03822 (06090204)
0.03559 (05042905)
0.03433 (05042905)
3756881.2
3756851.2
3756821.2
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0.03247 (06090204)

0.03063 (06061607)

0.02957 (06061607)

0.02838 (05042905)

0.02732 (06041123)
3756791.2
 3756761.2 | 0.03742 (05102108) 0.03848 (0
3756761.2 | 0.03741 (05102108) 0.03739 (0
3756731.2 | 0.03676 (07032008) 0.03561 (0
3756701.2 | 0.03664 (07032008) 0.03328 (0
3756671.2 | 0.03462 (07032008) 0.03057 (0
3756671.2 | 0.03265 (07032008) 0.02828 (0
*** AERMOD - VERSION 09292 *** *** Site 14 - CO
                                                                                                                                                                0.03673 (07032008)
0.03460 (06090606)
0.03214 (06090606)
0.02989 (06061607)
0.02937 (06061607)
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0.03277 (05042905)

0.03148 (06041123)

0.02999 (06041123)

0.02837 (06041123)

0.02665 (06041123)
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3756731.2
3756701.2
                                                                                                           0.03739 (07032008)
0.03561 (07032008)
0.03561 (07032008)
 3756671.2
                                                                                                           0.03057 (07032008)
3756641.2
                                                                                                           0.02828 (06061607)
                                                                                                                                                                                                                                                                                                          10/26/10
14:37:09
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PAGE 17 **MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) 372296.85 372326.85 372356.85 372386.85 372416.85 V-COOPD Y-COORD | (METERS) | 0.04554 (06090607) 0.05163 (06090607) 0.05791 (06090607) 0.06415 (06090607) 0.07004 (06090607) 0.07522 (06090607) 0.03562 (05052102) 0.03697 (05052102) 0.03826 (05052102) 0.03948 (05052102) 0.04058 (05052102) 0.04635 (06090607) 0.05404 (06090607) 0.03777 (07072704) 0.03792 (07090806) 0.03953 (070072704) 0.04014 (07090806) 0.04135 (07072704) 0.04253 (07090806) 0.04352 (05052102) 0.04509 (07090806) 0.04596 (05052102) 0.04809 (07072704) 0.04507 (05052102) 0.05135 (07072704) 0.05122 (05052102) 0.05486 (07072704) 0.05122 (05052102) 0.05486 (07072704) 3758111 2 I 0.03134 (06090607) 0.03134 (06090607) 0.03678 (06090607) 0.04283 (06090607) 0.04944 (06090607) 0.05647 (06090607) 0.06369 (06090607) 0.07079 (06090607) 3758081.2 3758051.2 0.05/91 (06090607) 0.06415 (06090607) 0.07004 (06090607) 0.07522 (06090607) 0.07924 (06090607) 0.07734 (06090607) 0.08298 (06090607) 0.08698 (06090607) 0.08884 (06090607) 0.08816 (06090607) 0.08478 (06090607) 0.05404 (06090607) 0.06238 (06090607) 0.07100 (06090607) 0.07934 (06090607) 0.08683 (06090607) 0.09288 (06090607) 0.09692 (06090607) 0.05865 (07072704) 0.05865 (07072704) 0.06273 (07072704) 0.06715 (07072704) 0.07195 (07072704) 0.07798 (05052102) 0.08461 (05052102) 0.09287 (06070502) 3757901.2 0.08165 (06090607) 0.05388 (05052102) 3757901.2 3757871.2 3757841.2 3757811.2 3757781.2 0.08213 (06090607) 0.05655 (05052102) 0.08213 (06090607) 0.08039 (06090607) 0.07628 (06090607) 0.07001 (06042607) 0.07963 (05082505) 0.09060 (06090407) 0.05655 (05052102)
0.06056 (06090607)
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0.10089 (06090607) 3757721.2 0.08718 (05082505) 0.09853 (06090607) 0.10002 (06090407) 3757691.2 0.10031 (05082505) 0.10787 (06090407) 0.10127 (06100302) 0.11111 (07062501) 0.12296 (07062501) 0.10854 (06070502) 0.11524 (05082505) 3757661.2 0.10141 (06090407) 0.12562 (06070502) 0.10860 (06071402) 0.11891 (06071402) 0.12350 (07062723) 0.11510 (05082506) 0.13122 (06071402) 0.14209 (06071402) 0.15047 (07062723) 0.13027 (05082505) 0.13960 (05082506) 0.16407 (06071402) 0.17687 (06071402) 0.13479 (06100302) 0.16086 (05082505) 0.18112 (05082505) 0.21727 (06071402) 0.12302 (00070302) 0.14832 (07062501) 0.17440 (07062501) 0.20572 (05082505) 0.00000 (00000000) 3757631.2 0.12929 (06090102) 0.13830 (06100301) 3757541.2 0.24593 (07090907) 3757511.2 0.15900 (06100301) 0.19007 (06090102) 0.20387 (07091603) 0.00000 (00000000) 3757481.2 0.13958 (05042101) 0.16531 (07091603) 0.00000 (00000000) 0.00000 (00000000) 0.16531 (07091603) 0.17056 (07082903) 0.17353 (07082903) 0.15344 (06060203) 0.13967 (05043001) 0.14136 (07070106) 0.00000 (00000000) 0.00000 (00000000) 0.00000 (00000000) 0.00000 (00000000) 0.22516 (07070203) 0.18310 (07072705) 3757451.2 0.14165 (06111920) 0.21494 (07082903) 0.1465 (06111920)
0.15010 (07082903)
0.13355 (06060203)
0.12524 (06111722)
0.12963 (07070106)
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0.08554 (07070203)
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0.07275 (06041124) 0.00000 (00000000) 0.00000 (00000000) 0.22259 (07081202) 0.19323 (06090101) 0.17057 (07070203) 0.14833 (06041124) 3757431.2 3757421.2 3757391.2 3757361.2 0.20409 (07082903) 0.17951 (05043001) 0.16789 (07091205) 0.15074 (06090101) 3757331.2 0.18310 (07072705)
0.15564 (06090606)
0.13067 (06090606)
0.11297 (07081701)
0.10373 (07081701)
0.09540 (07081701)
0.08775 (07081701)
0.08065 (07081701) 3757301.2 0.12720 (07070106) 0.13335 (07070203) 0.12458 (07070203) 0.12720 (07070106) 0.10791 (05083004) 0.10475 (07070203) 0.09700 (07070203) 0.08832 (06041124) 0.08037 (07072705) 0.07331 (06090606) 3757271.2 0.12884 (07072705) 0.11498 (06090606) 0.12458 (07070203) 0.11112 (06041124) 0.09925 (07072705) 0.09024 (06090606) 0.08296 (06090606) 0.07420 (06090606) 3757241 2 0.11498 (06090606) 0.10186 (06090606) 0.08797 (06090606) 0.08034 (06041123) 0.07317 (06041123) 3757211.2 3757211.2 3757181.2 0.06580 (05042905) 0.06580 (05042905) 0.06142 (06041123) 0.05728 (06041123) 0.05287 (06041123) 0.04860 (07081701) 0.04748 (07081701) 3757091.2 0.06719 (07072705) 0.06929 (06090606) 0.06794 (07081701) 0.07403 (07081701) 0.06787 (07081701) 0.06492 (07081701) 0.06178 (07081701) 0.05856 (07081701) 0.05531 (07081701) 0.05206 (07081701) 3757061.2 0.06150 (07072705) 0.06372 (06090606) | 57061.2 | 0.06150 (07072705) | 0.06372 (06090606) | 57031.2 | 0.05888 (06090606) | 0.05715 (06090606) | 57001.2 | 0.05588 (06090606) | 0.05197 (05042905) | 0.56971.2 | 0.05080 (06090606) | 0.04917 (05042905) | 0.05941.2 | 0.04592 (06090204) | 0.04647 (06041123) | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.04592 | 0.06787 (07081701) 0.06214 (07081701) 0.05683 (07081701) 0.05191 (07081701) 0.04828 (07042623) 10/26/10 3757031.2 14:37:09 PAGE 18 **MODELOPTS: NonDEAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE 1ST HIGHES : ...
INCLUDING SOURCE(S): 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL VOL1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM (METERS) 372296.85 372326.85 372356.85 372386.85 372416.85 0.04248 (05042905) 0.04362 (06041123) 0.04614 (07081701) 0.04886 (07081701) 0.04233 (07042623) 0.04063 (05042905) 0.04058 (06041123) 0.04462 (07081701) 0.04574 (07081701) 0.04240 (07042623) 0.03865 (06041123) 0.03746 (06041123) 0.04296 (07081701) 0.04272 (07081701) 0.04000 (05083003) 0.03676 (06041123) 0.03630 (07081701) 0.04119 (07081701) 0.03982 (07081701) 0.03878 (06082207) 0.03465 (06041123) 0.03578 (07081701) 0.03936 (07081701) 0.03705 (07081701) 0.03878 (06082207) 0.03242 (08041123) 0.03510 (07081701) 0.03748 (07081701) 0.03705 (07081701) 0.03822 (06082207) 0.03012 (06041123) 0.03426 (07081701) 0.03579 (07081701) 0.03578 (07081701) 0.03579 (05082207) 0.02867 (07081701) 0.03126 (07081701) 0.03138 (07081701) 0.03138 (07081701) 0.03095 (06082207) 0.03559 (06082207) 0.02867 (07081701) 0.03131 (07081701) 0.03004 (07081701) 0.03095 (06082207) 0.03559 (06082207) 0.03559 (05082207) 0.02867 (07081701) 0.03131 (07081701) 0.03004 (07081701) 0.03095 (06082207) 0.03559 (05082207) 3756911.2 3756761.2 3756731.2 0.03278 (07042023, 0.03126 (07042623) 0.03098 (06082207) 0.03095 (06082207) 0.03710 (06082207) 0.03655 (06082207) 0.03606 (06082207) 0.03559 (06082207) 10/26/10 14:37:09 3756701.2 | 0.03012 (00041123) | 0.03426 (07061701) | 3756671.2 | 0.02852 (07081701) | 0.03331 (07081701) | 3756671.2 | 0.02852 (07081701) | 0.03226 (07081701) | 3756641.2 | 0.02827 (07081701) | 0.03113 (07081701) | *** AERMOD - VERSION 09292 *** *** Site 14 - CO PAGE **MODELOPTS: NonDEAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE $\,$ 1ST HIGHEST 1-HR AVERAGE CONCENTRATION $\,$ VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): $\,$ VOL1 $\,$, *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS)
372446.85 372506.85 372536.85 372566.85
 0.03708 (05082924)
 0.03811 (07072603)
 0.03743 (07072603)
 0.03702 (07091802)
 0.03649 (07040123)

 0.03933 (05082924)
 0.04026 (07072603)
 0.03941 (07072603)
 0.03900 (07091802)
 0.03848 (07040123)

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 0.04054 (07040123)

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 0.04524 (07072603)
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 0.04266 (07040123)

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 0.05251 (07040123)
 0.04930 (07040123)

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 0.05909 (07072603)
 0.0572 (07091802)
 0.05652 (07040123)
 0.05158 (07040123)
 3758111.2 3757991.2 3757961.2 3757931.2 3757901.2 0.05847 (05082924) 0.06306 (05082924) 0.06825 (05082924) 0.07457 (07090806) 0.08195 (07092704) 0.10117 (07072704) 0.11372 (07072704) 0.05702 (07091802) 0.06171 (07091802) 0.06701 (07091802) 0.07305 (07091802) 0.08000 (07091802) 0.0808 (07091802) 0.09765 (07091802) 0.10970 (07040123) 0.05158 (07040123) 0.05384 (07040123) 0.05826 (07122005) 0.06405 (07122005) 0.07371 (07062524) 0.08469 (07062524) 0.09565 (07062524) 0.10599 (07062524) 3757871.2 3757841.2 3757811.2 0.05909 (07072603) 0.06375 (07072603) 0.06909 (07072603) 0.07528 (07072603) 0.06652 (07040123) 0.06087 (07040123) 0.06557 (07040123) 0.07068 (07040123) 3757781.2 0.08253 (07072603) 0.07626 (07040123) 0.08238 (07040123) 0.08238 (07040123) 0.08920 (07040123) 0.10358 (07062524) 0.09115 (07072603) 0.10158 (07072603) 0.11446 (07072603) 3757751.2 3757721.2 | 3757691.2 |

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0.18228 (07072603)
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0.14372 (07062524)
0.16623 (07062524)
0.20372 (05082807)
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3757631.2 |
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0.14856 (07072704)
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0.13260 (05082807)
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0.22537 (07062901)
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0.18482 (07051822)
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0.13148 (06053105)
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0.10077 (07051822)
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                                       0.24038 (06090606)
                                       0.19510 (07081701)
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0.14052 (07081701)
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0.15655 (06053105)
0.13110 (07051822)
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3757271.2
 3757241.2
 3757211.2
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0.09186 (07081604)
0.08300 (07081604)
0.07558 (07081604)
0.06928 (07081604)
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0.05914 (07081604)
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0.07847 (05091702)
0.07221 (05091702)
0.06588 (05091702)
 3757181.2
                                       0.09354 (07081701)
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0.08119 (05042102)
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0.08025 (07103023)
                                      0.09354 (07081701)
0.08376 (05083003)
0.07668 (05083003)
0.07054 (05083003)
0.06517 (05083003)
0.06043 (05083003)
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0.07443 (05042102)

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0.05904 (05042102)
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0.07230 (07103023)
0.06502 (07103023)
0.05838 (07103023)
0.05236 (07103023)
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0.05715 (07103023)
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0.05135 (07081604)
0.04810 (07081604)
te 14 - CO
                                                                                                                                                       0.05506 (05042102)
0.05151 (05042102)
0.04831 (05042102)
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0.04584 (05042102)
0.04358 (05042102)
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3757001.2
                                       0.05621 (05083003)
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0.04891 (07103023)
0.04503 (07103023)
10/26/10
14:37:09
PAGE 20
 0.0353756971.2 | 0.05244 (05083003) 0.051
3756971.2 | 0.04904 (05083003) 0.048
*** AERMOD - VERSION 09292 *** *** Site 14
3756971.2
3756941.2
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                     NODRYDPLT NOWETDPLT
                                                                   *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                                                          VOL1 ,
                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                IN PPM
                                                                                       ** CONC OF CO
                                                                                                                                          X-COORD (METERS)
  Y-COORD
                                         372446.85 372476.85 372506.85 372536.85
                                        372446.85
                                                                                                                                                                                                                                                                           372566.85
                                      0.04600 (06111620) 0.04519 (07081604) 0.04542 (05042102) 0.04150 (05042102) 0.04134 (07103023) 0.04341 (06082207) 0.04257 (07081604) 0.04280 (05042102) 0.03957 (05042102) 0.03788 (07103023) 0.04221 (06082207) 0.04020 (07081604) 0.04024 (05042102) 0.03787 (05042102) 0.03665 (07103023) 0.04126 (06082207) 0.03804 (07081604) 0.03823 (05042102) 0.03610 (05042102) 0.03164 (07103023) 0.04026 (06082207) 0.03638 (06082207) 0.03632 (05042102) 0.03645 (05042102) 0.02887 (07103023) 0.39930 (06082207) 0.03535 (06082207) 0.03535 (05042102) 0.03645 (05042102) 0.02887 (05042102) 0.03888 (06082207) 0.03437 (05042102) 0.036307 (05042102) 0.02784 (05042102) 0.03888 (06082207) 0.03437 (05042102) 0.03169 (05042102) 0.02784 (05042102) 0.03638 (06082207) 0.03437 (05042102) 0.03169 (05042102) 0.02784 (05042102) 0.03638 (06082207) 0.03444 (06082207) 0.03169 (05042102) 0.03169 (05042102) 0.02784 (05042102) 0.03638 (06082207) 0.03444 (06082207) 0.03124 (05042102) 0.03169 (05042102) 0.02784 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.02784 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.02784 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (05042102) 0.03638 (050
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3756761.2
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0.02473 (05042102)
3756701.2
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3756671.2
3756641.2
                                                                                                                                                                                                                 0.02919 (05042102)
0.02804 (05042102)
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                                                                                                                                                                                                                                                                               10/26/10
14:37:09
PAGE 21
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                    FLAT
NODRYDPLT NOWETDPLT
                                                                    *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                           INCLUDING SOURCE(S):
                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                       ** CONC OF CO IN PPM
  Y-COORD
                                                                                                                                          X-COORD (METERS)
                                       372596.85 372626.85 372656.85
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0.03737 (07062524)
0.03992 (07062524)
0.04200 (07062524)
0.04791 (05082807)
0.05701 (05082807)
0.06611 (05082807)
                                       0.03400 (07040123)
                                                                                                                                                      0.03183 (07122005)
0.03340 (07062524)
0.03730 (07062524)
0.04117 (07062524)
0.04811 (07062524)
0.05074 (07062524)
0.05074 (07062524)
0.05074 (07062524)
0.07050 (05082807)
0.70750 (05082807)
                                      0.03400 (07040123)
0.03504 (07040123)
0.03602 (07040123)
0.03692 (07040123)
0.03944 (07122005)
0.04294 (07122005)
0.04644 (07122005)
3758081.2
3758051.2
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0.04595 (05082807)
 3758021.2
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 3757901.2
                                       0.04985 (07122005)
                                                                                               0.05526 (07062524)
0.05964 (07062524)
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 3757871.2
                                       0.05643 (07062524)
                                                                                                                                                                                                                 0.08100 (05082807)
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3757841.2
                                       0.06367 (07062524)
                                                                                               0.06438 (05082807)
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0.08512 (05082807)
0.08128 (05082807)
0.07352 (05082807)
0.07259 (06090306)
0.08302 (06090306)
0.09887 (05082707)
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3757781.2
3757751.2
3757721.2
                                       0.07066 (07062524)
0.07696 (07062524)
0.07696 (07062524)
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0.09582 (05082807)
                                                                                               0.07604 (05082807)
0.07604 (05082807)
0.08653 (05082807)
0.09449 (05082807)
0.09861 (05082807)
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0.08704 (05082807)
0.09083 (05082807)
0.09035 (05082807)
0.08525 (05082807)
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0.06276 (07070124)
0.06488 (06090306)
0.07290 (06090306)
 3757691.2
                                       0.10614 (05082807)
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0.10337 (07070124)
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 3757661.2
                                       0.11289 (05082807)
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0.13120 (05082707)
0.15821 (05082707)
0.16099 (05082707)
0.15657 (07112919)
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0.12708 (05082707)
0.10526 (05082707)
0.09904 (07112919)
 3757631.2
                                       0.12571 (07070124)
0.13749 (06090306)
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0.13762 (05082707)
0.12756 (05082707)
0.11337 (07112919)
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                                        0.16238 (07062424)
0.19354 (05082707)
 3757511.2
                                       0.19331 (05082707)
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3757481.2
                                       0.20484 (05091722)
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0.11324 (06112321)

0.09647 (05070723)

0.10404 (07081802)

0.10003 (07082904)

0.09922 (05041521)

0.09968 (05041521)

0.09002 (07062901)
 3757451.2
                                       0.21314 (06112321)
                                                                                                0.17439 (06112321)
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0.16293 (07081802)
0.15547 (05041521)
0.14387 (05041521)
0.13473 (07062901)
0.12642 (05062305)
                                                                                                                                                        0.14778 (06112321)
0.13360 (07081802)
0.13349 (07081802)
0.13016 (05041521)
0.12024 (07062901)
0.11123 (05062305)
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0.10903 (07081802)
0.11869 (07081802)
0.11259 (07082904)
0.10857 (05041521)
0.10326 (07062901)
0.09519 (05062305)
3757421.2
                                       0.19867 (07081802)
 3757391.2
3757361.2
3757331.2
                                       0.18701 (05041502)
0.18701 (05041521)
0.16915 (07062901)
0.15383 (05062305)
0.15004 (07090807)
 3757301.2
 3757271.2
                                       0.14258 (07090807)
                                                                                               0.13400 (07090807)
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 3757241.2
                                       0.12730 (07090807)
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0.12716 (07090807)
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0.08320 (07090807)
 3757211.2
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0.11889 (07090807)
                                            .09262 (06053105)
.08211 (06053105)
.07427 (07051822)
 3757091.2
                                       0.06721
                                                          (07051822)
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0.05980 (06053105)
0.05376 (06053105)
 3757061.2
                                       0.05972 (07051822)
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3757031.2
                                       0.05609 (05091702)
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 3757001.2
                                       0.05243 (05091702)
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0.05477 (05102308)
0.04941 (05102308)
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3756971.2 | 0.04859 (05091702) 0.04773 (07051822)
3756971.2 | 0.04588 (07103023) 0.04510 (05091702)
*** AERMOD - VERSION 09292 *** *** Site 14 - CO
                                                                                                                                                        0.05038 (07051822)
0.04717 (07051822)
                                                                                                                                                                                                                                                                         0.06391 (07090807)
0.05582 (05102308)
10/26/10
14:37:09
                                                                                                                                                                                                                                                                                     PAGE 22
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                   INCLUDING SOURCE(S):
                                                                                                                                                                                                                                          VOL1 ,
                                                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                                   X-COORD (METERS)
    Y-COORD
                                                                                                                                                                                                                                                                                                         372686.85
                                                                                                                                                                                                              372656.85
    (METERS)
                                                                     372596.85 372626.85
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                                                                 0.04350 (07103023) 0.04290 (05091702) 0.04341 (07051822) 0.04382 (07051822) 0.05218 (05102308) 0.04105 (07103023) 0.04046 (05091702) 0.03937 (07051822) 0.04187 (07051822) 0.04761 (05102308) 0.03858 (07103023) 0.03788 (05091702) 0.03716 (05091702) 0.03933 (07051822) 0.04249 (05102308) 0.03613 (07103023) 0.03597 (07103023) 0.03583 (05091702) 0.03639 (07051822) 0.03715 (05102308) 0.03373 (07103023) 0.03454 (07103023) 0.03452 (05091702) 0.03322 (07051822) 0.03552 (07051822) 0.03141 (07103023) 0.03301 (07103023) 0.03454 (07103023) 0.03452 (05091702) 0.03322 (07051822) 0.03552 (07051822) 0.02918 (07103023) 0.03918 (05091702) 0.030121 (05091702) 0.03346 (07051822) 0.02918 (07103023) 0.03914 (07103023) 0.03064 (05091702) 0.03040 (05091702) 0.03109 (07051822) 0.02706 (07103023) 0.02986 (07103023) 0.02986 (07103023) 0.02986 (07103023) 0.02854 (07103023) 0.02854 (07103023) 0.02856 (07103023) 0.02856 (07103023) 0.02856 (07103023) 0.02856 (07103023) 0.02856 (07103023) 0.02686 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (05091702) 0.02614 (050
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0.03141 (07103023) 0.03301 (0

0.02918 (07103023) 0.03142 (0

0.02706 (07103023) 0.02980 (0

0.02505 (07103023) 0.02980 (0

0.02317 (07103023) 0.02655 (0

SION 09292 *** Site 14 - CO
  *** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10/26/10
14:37:09
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                                FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                                                             1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                           1ST HIGHEST
                                                                                                                                 INCLUDING SOURCE(S): VOL1 ,
                                                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                                          X-COORD (METERS)
                                                                   372746.85 372776.85 372806.85
    (METERS)
                                                                                                                                                                                                                                                                                                                                                                       372836.85 372866.85
                                                        3758081.2 |
3758051.2 |
  3758021.2
 3757991.2
  3757961 2
  3757961.2
3757931.2
3757901.2
3757871.2
3757841.2
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0.05310 (06090306)

0.05810 (06090306)

0.06818 (05082707)

0.09309 (05082707)

0.11339 (05082707)

0.12152 (05082707)

0.11308 (05082707)
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0.05252 (06090306)

0.06056 (05082707)

0.08383 (05082707)

0.11632 (05082707)

0.11532 (05082707)

0.19669 (05082707)
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0.06789 (05082707)

0.10340 (05082707)

0.10340 (05082707)

0.10293 (05082707)

0.08542 (05082707)

0.06196 (05082707)
 3757811.2
                                                                   0.05428 (07070124)
0.05853 (06090306)
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3757811.2
3757781.2
3757751.2
3757721.2
3757691.2
3757661.2
3757631.2
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0.09608 (05082707)

0.11013 (05082707)

0.11234 (05082707)

0.10088 (05082707)

0.07892 (05082707)

0.06583 (07112919)

0.06213 (07112919)

0.06213 (07112919)
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0.12520 (05082707)
0.11022 (05082707)
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0.07106 (07112919)
0.07512 (05071903)
  3757601.2
                                                                                                                                                                    0.09041 (05082707)
0.07975 (07112919)
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  3757571.2
                                                                    0.08759 (07112919)
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0.06493 (05091722)
  3757541.2
                                                                    0.08654 (05071903)
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0.07049 (06090106)
0.07289 (06061524)
0.07641 (06112321)
0.06848 (06112321)
0.06980 (07031508)
0.06706 (07081802)
                                                                    0.09574 (05091722)
0.09768 (06061524)
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0.08800 (06061524)
0.09151 (06112321)
0.07993 (06112321)
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0.07795 (05091722)
0.07985 (06061524)
0.08334 (06112321)
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0.06475 (07072605)
0.06687 (06061524)
0.07044 (06112321)
                                                                    0.10129 (06112321)
  3757421.2
                                                                    0.08738 (05070723)
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0.06637 (07031508)
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0.06445 (07031508)

0.06390 (07081802)

0.06023 (07081201)

0.05968 (07082904)

0.06075 (05041521)

0.06257 (07091107)

0.05819 (07091107)

0.05819 (07091007)

0.05835 (06081607)

0.05834 (06081607)

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0.05896 (07090807)
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                                                                    0.08993 (07081802)
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  3757361.2
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0.06633 (07082904)
0.06549 (05041521)
0.06456 (07091107)
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0.05983 (07062901)
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0.07939 (05041521)
0.07469 (05041521)
0.07168 (07062901)
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0.07136 (07082904)
0.07184 (05041521)
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                                                                    0.07345 (05062305)
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  3757211.2
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14:37:09
PAGE 24
  *** AERMOD - VERSION 09292 ***
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                                                                    *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                      ** CONC OF CO
                                                                                                                                                                                                                              IN PPM
                                                                                                                                                                                                                                   X-COORD (METERS)
                                                                                                       372776.85
                                                372746.85
                                                                                                                                                                                                               372806.85 372836.85 372866.85
                                                                 0.05718 (07090807) 0.07395 (07090807) 0.08665 (07090807) 0.09252 (07090807) 0.05315 (05102308) 0.06247 (07090807) 0.07725 (07090807) 0.08716 (07090807) 0.05011 (05102308) 0.05232 (05102308) 0.06688 (07090807) 0.07946 (07090807) 0.04613 (05102308) 0.05523 (05102308) 0.05641 (07090807) 0.07035 (07090807) 0.04158 (05102308) 0.04820 (05102308) 0.04599 (05102308) 0.06069 (07090807) 0.03677 (05102308) 0.04470 (05102308) 0.04492 (05102308) 0.05117 (07090807) 0.03677 (05102308) 0.04470 (05102308) 0.04470 (05102308) 0.03503 (07051822) 0.03630 (05102308) 0.04664 (05102308) 0.04672 (05102308) 0.04672 (05102308) 0.04672 (05102308) 0.0478 (05102308) 0.02891 (07051822) 0.03630 (05102308) 0.04332 (05102308) 0.04677 (05102308) 0.02891 (07051822) 0.03191 (05102308) 0.03969 (05102308) 0.04474 (05102308) 0.02696 (07051822) 0.02796 (07051822) 0.03576 (05102308) 0.04474 (05102308) 0.02696 (07051822) *** Site 14 - CO
  3756881.2
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14:37:09
PAGE 25
                                                                                                                                                                                                                                                                FLAT
NODRYDPLT NOWETDPLT
                                                                                                                    *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM 372896.85 372926.85 372956.85 0.05440 (05082807) 0.04340 (05082807) 0.03208 (05082807) 0.02306 (07070124) 0.02384 (06090306) 0.04896 (05082807) 0.03698 (05082807) 0.02589 (05082807) 0.02496 (06090306) 0.02707 (06090306) 0.04246 (05082807) 0.03028 (05082807) 0.02515 (06090306) 0.02861 (06090306) 0.02925 (06090306) 0.03534 (05082807) 0.02742 (06090306) 0.03303 (06090306) 0.03116 (06090306) 0.02994 (06090306) 0.02981 (07070124) 0.03216 (06090306) 0.03281 (05082807) 0.03406 (0508207) 0.03406 (0508207) 0.03406 (0508207) 0.03406 (0508207) 0.03406 (0508207) 0.03406 (0508207) 0.03406 (0508207) 0.03832 (06090306) 0.03716 (06090306) 0.03716 (06090306) 0.03716 (06090306) 0.03806 (05082707) 0.03832 (06090306) 0.03716 (06090306) 0.03716 (06090306) 0.03606 (05102522) 0.04508 (05082707) 0.05544 (05082707) 3758111.2 I 3758081.2 3758051.2 3758051.2 3758021.2 3757991.2 3757961.2 3757931.2 0.03716 (06090306) 0.03947 (06102522) 0.03660 (06102522) 0.04982 (05082707) 0.06671 (05082707) 0.08293 (05082707) 0.09495 (05082707) 0.09438 (05082707) 0.09438 (05082707) 0.04508 (05082707) 0.06080 (05082707) 0.07657 (05082707) 0.08939 (05082707) 0.09606 (05082707) 0.09436 (05082707) 0.08415 (05082707) 3757901.2 3757871.2 0.04023 (06090306) 0.07059 (05082707 0.04023 (06090306) 0.04309 (05082707) 0.06116 (05082707) 0.08027 (05082707) 0.09647 (05082707) 0.10520 (05082707) 0.10314 (05082707) 0.09010 (05082707) 0.03947 (06102522) 0.05516 (05082707) 0.07320 (05082707) 0.08960 (05082707) 0.10030 (05082707) 0.10185 (05082707) 0.08379 (05082707 0.08379 (05082707) 0.09212 (05082707) 0.09321 (05082707) 0.08626 (05082707) 0.07254 (05082707) 0.08415 (05082707) 0.06767 (05082707) 0.04880 (05082707) 0.04501 (07112919) 0.04343 (07112919) 0.04350 (05071903) 0.04789 (05071903) 0.04904 (05091722) 0.04953 (06061524) 0.04922 (06061524) 0.19303 (05082707) 0.09303 (05082707) 0.07583 (05082707) 0.05477 (05082707) 0.05195 (07112919) 0.04817 (07112919) 0.05368 (05071903) 0.08438 (05082707) 0.08070 (05082707) 0.06170 (05082707) 0.04731 (06081407) 0.04791 (07112919) 0.04438 (05071903) 0.05084 (05071903) 0.05512 (05082707) 0.05512 (05082707) 0.04497 (06081407) 0.04234 (07112919) 0.04232 (05071903) 0.04539 (05091722) 0.04552 (05091722) 3757721.2 3757721.2 3757691.2 3757661.2 3757631.2 3757601.2 3757571.2 0.09010 (05082707) 0.06954 (05082707) 0.06954 (05082707) 0.05524 (07112919) 0.05442 (07112919) 0.05635 (05071903) 0.06072 (05091722) 0.05666 (05091722) 0.05606 (07072605) 0.05698 (06061524) 3757541.2 0.05276 (05091722) 3757511.2 3757481.2 0.06019 (07072605) 0.06161 (06061524) 0.05256 (06061524) 0.05288 (06061524) 0.04676 (06061524) 0.04594 (06061524) 0.05286 (06061524)
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372896.85 372926.85 372956.85 373016.85 3756881.2 3756851.2 3756821.2 3756791.2 3756791.2 0.08096 (77990807) 0.08349 (0.3756761.2 0.07458 (77990807) 0.08049 (0.3756731.2 0.06696 (07090807) 0.07546 (0.3756701.2 0.05875 (07090807) 0.06897 (0.3756671.2 0.05049 (07090807) 0.06160 (0.3756641.2 0.04407 (05102308) 0.05389 (0.375664 0.07649 (07090807) 0.07827 (07090807) 0.07776 (07090807) 0.07519 (07090807) 0.07093 (07090807) 10/26/10 14:37:09 PAGE 27 **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE $\,$ 1ST HIGHEST 1-HR AVERAGE CONCENTRATION $\,$ VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): $\,$ VOL1 $\,$, VOL1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) Y-COORD (METERS) 373046.85 373076.85 373106.85 373136.85 373166.85 0.02565 (06090306) 0.02595 (06090306) 0.02752 (06090306) 0.02632 (06090306) 0.02803 (06090306) 0.02798 (06102522) 0.02979 (06102522) 0.03376 (05082707) 0.03711 (05082707) 0.04619 (05082707) 0.02477 (06090306) 0.02487 (06102522) 0.02637 (07043007) 0.02635 (06102522) 0.02812 (05082707) 0.03543 (05082707) 0.03078 (05082707) 0.03866 (05082707) 0.04666 (05082707) 0.04223 (05082707) 0.05506 (05082707) 0.05506 (05082707) 0.05506 (05082707) 0.06303 (05082707) 0.06785 (05082707) 0.0789 (05082707) 0.06785 (05082707) 0.07802 (05082707) 0.07862 (05082707) 0.08166 (05082707) 0.08202 (05082707) 0.08202 (05082707) 0.08202 (05082707) 0.08222 (05082707) 0.08428 (05082707) 0.08079 (05082707) 3758081.2 | 3758051.2 | 3758021.2 | 3757991.2 0.05506 (05082707) 0.06785 (05082707) 0.07862 (05082707) 0.08522 (05082707) 0.08600 (05082707) 0.08039 (05082707) 3757961.2 | 3757931.2 | 0.05058 (05082707) 0.05984 (05082707) 0.07295 (05082707) 0.06501 (05082707) 0.07828 (05082707) 0.08779 (05082707) 0.09117 (05082707) 0.08324 (05082707) 0.08844 (05082707) 0.08701 (05082707) 0.07884 (05082707) 0.08100 (05082707) 0.08428 (05082707) 0.08100 (05082707) 0.07214 (05082707) 0.08202 (05082707) 0.08079 (05082707) 0.07412 (05082707) 0.06308 (05082707) 0.04959 (05082707) 3757811.2 0.08716 (05082707) 0.06926 (05082707) 0.05474 (05082707) 0.05928 (05082707) 0.04477 (05082707) 0.03972 (06081407) 3757781.2 0.07625 (05082707) 0.06545 (05082707) 3757751.2 0.06071 (05082707) 0.04954 (05082707) 0.04293 (06081407) 0.04174 (06081407) 0.04105 (06081407) 0.04106 (06081407) 0.03958 (06081407) 0.04393 (06081407) 3757721.2 0.03848 (06081407) 0.03546 (06081407) 0.04393 (06081407) 0.04252 (06081407) 0.03917 (07112919) 0.03445 (05071903) 0.04091 (05071903) 0.04326 (05091722) 0.04283 (06090106) 0.04422 (06061524) 0.04105 (06081407) 0.03591 (06081407) 0.03209 (07112919) 0.03392 (05071903) 0.03757 (05071903) 0.03895 (05091722) 0.03800 (06090106) 0.03970 (06061524) 0.03546 (06081407) 0.02998 (07112919) 0.02755 (05071903) 0.03251 (05071903) 0.03412 (05091722) 0.03474 (05091722) 0.03453 (07072605) 0.03582 (06061524) 3757691.2 3757661.2 3757631.2 0.03944 (06081407) 0.03569 (07112919) 0.03431 (05071903) 0.03276 (07112919) 0.02853 (07112919) 0.03331 (05071903) 0.03930 (05071903) 0.03574 (05071903) 3757601.2 0.04110 (05091722) 0.04035 (06090106) 0.04187 (06061524) 0.03574 (05071903) 0.03682 (05091722) 0.03620 (07072605) 0.03769 (06061524) 3757571.2 3757541.2 | 3757511.2 |

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 **MODELOPTS: NonDFAULT CONC
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                                                                                                                                                                               NODRYDPIAT NOWETDPIAT
                                                                              *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                          ** CONC OF CO
                                                                                                                                                         IN PPM
                                 X-COORD (METERS)
373046.85 373076.85 373106.85 373136.85 373166.85
                                    0.04856 (06081607) 0.04661 (06081607) 0.04232 (06081607) 0.03652 (06081607) 0.03007 (06081607) 0.04636 (06081607) 0.04728 (06081607) 0.04554 (06081607) 0.04162 (06081607) 0.03622 (06081607) 0.04162 (06081607) 0.04662 (06081607) 0.04162 (06081607) 0.04692 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.04902 (06081607) 0.05690 (07090807) 0.05690 (07090807) 0.05590 (07090807) 0.05100 (07090807) 0.05100 (07090807) 0.05950 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.04544 (07090807) 0.03305 (07090807) 0.07336 (07090807) 0.06871 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (07090807) 0.05500 (0709
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PAGE 29
                                                                                                                                                                                                                                                    0.04544 (07090807)
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 **MODELOPTS: NonDFAULT CONC
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                                                                                *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                         ** CONC OF CO IN PPM
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372149.67 3757202.57 0.10357 (07070106) 372200.97 3757196.42 0.10701 (07070106)
372734.43 3757083.57 0.11045 (07090807) 372746.74 3757147.17 0.09163 (07090807)
372767.26 3757192.31 0.06782 (05062305) 372894.46 3757118.45 0.05023 (07062901)
372371.27 3757725.77 0.10148 (0609067)

*** AERMOD - VERSION 09292 *** Site 14 - CO
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                                                                                                                                                                            FLAT
NODRYDPLT NOWETDPLT
                                                                               *** THE
                                                                                                           1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                          INCLUDING SOURCE(S):
                                                                                                                                                                  VOI-1
                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                      ** CONC OF CO IN PPM
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371696.85 371726.85 371756.85 371786.85 371816.85
   Y-COORD

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        0.00538 (05010416)
        0.00518 (05010416)

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        0.00559 (06110908)
        0.00555 (06110908)

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        0.00633 (07090908)
        0.00551 (06110908)

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        0.00690 (07090908)

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        0.00855 (07090908)
        0.00812 (07090908)

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        0.00980 (07090908)
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  3758021.2
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  3757271.2
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0.01017 (06103008)
  3757241.2
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3757181.2 |
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0.01020 (07031308)
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0.01142 (06122008)
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0.01101 (06110508)
0.01168 (06053108)
0.01255 (06053108)
                              0.00968 (07031308)
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0.01064 (06122008)
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3757031.2 | 0.01029 (06110508) 0.01093 (06
3757001.2 | 0.01042 (06110508) 0.01079 (0
3756971.2 | 0.01011 (06110508) 0.01079 (0
3756941.2 | 0.01024 (06053108) 0.01142 (0
*** AERMOD - VERSION 09292 *** Site 14 - CO
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                             FLAT
                                                                                                                                             NODRYDPLT NOWETDPLT
                                                                *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                     ** CONC OF CO
                                                                                                                          X-COORD (METERS)
                           X-COORD (METERS)
371696.85 371726.85 371756.85 371816.85
  (METERS)

        0.01113 (06053108)
        0.01211 (06053108)
        0.01295 (06053108)
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        0.01237 (06053108)
        0.01285 (06053108)
        0.01304 (06053108)
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        0.01181 (06053108)
        0.01217 (06053108)
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        0.01178 (07070108)

        0.01185 (06053108)
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        0.01089 (06053108)
        0.01041 (07070108)
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        0.01024 (07070108)
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        0.01039 (07070108)
        0.01014 (07070108)
        0.00965 (07070108)

 3756911.2 |
 3756881.2
3756851.2
 3756821.2
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3756761.2 | 0.01024 (07070108) 0.01041 (0 3756731.2 | 0.01002 (07070108) 0.00997 (0 3756701.2 | 0.00959 (07070108) 0.00933 (0 37566701.2 | 0.00959 (07070108) 0.00933 (0 3756671.2 | 0.00987 (07070108) 0.00855 (0 3756641.2 | 0.00823 (07070108) 0.00767 (0 *** AERMOD - VERSION 09292 *** Site 14 - CO
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0.00750 (05122908)
                                                                                                                                                                                                                                                                    PAGE 32
**MODELOPTS: NonDEAULT CONC
                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                  ** CONC OF CO IN PPM
                                                                                                                               X-COORD (METERS)
                                     371846.85 371876.85 371906.85 371936.85 371966.85
  (METERS)
                                                                                                                                            0.00845 (06090408) 0.00904 (06090408)
0.00795 (06090408) 0.00887 (06090408)
0.00723 (06090408) 0.00840 (06090408)
0.00681 (07080508) 0.00768 (06090408)

    0.00646 (06090408)
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    0.00582 (07080508)
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                                                                        INCLUDING SOURCE(S):
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                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                  ** CONC OF CO
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**MODELOPTs: NonDFAULT CONC
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                                                                                             *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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**MODELOPTS: NonDEAULT CONC
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                                                                                             *** THE \, 1ST HIGHEST 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol1 \, ,
                                                                                                                                                                                             VOL1 ,
                                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                          ** CONC OF CO IN PPM
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(METERS) |
                                           0.01327 (05122908) 0.01338 (05122908) 0.01319 (07121308) 0.01430 (07121308) 0.01522 (05112808) 0.01242 (05122908) 0.01224 (05122908) 0.01301 (07121308) 0.01390 (05112808) 0.01449 (05112808) 0.01444 (05122908) 0.01147 (05112808) 0.01336 (05112808) 0.01336 (05112808) 0.01366 (05112808) 0.01367 (07121308) 0.01164 (05112808) 0.01237 (05112808) 0.01272 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01276 (05112808) 0.01051 (05112808) 0.01138 (05112808) 0.01128 (05112808) 0.01051 (05112808) 0.01101 (05112808) 0.01127 (05112808) 0.01123 (05112808) 0.01051 (05112808) 0.01051 (05112808) 0.01056 (05112808) 0.01056 (05112808) 0.01056 (05112808) 0.01056 (05112808) 0.00956 (05112808) 0.00956 (05112808) 0.00997 (05112808) 0.00997 (05112808) 0.00997 (05112808) 0.00997 (05112808) 0.00996 (05112808) 0.00951 (05112808) 0.00995 (05112808) 0.00985 (05112808) 0.00887 (05012808) 0.00936 (05012808) 0.00887 (05012808) 0.00837 (06012608) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (05012808) 0.00937 (0501
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0.00830 (06021608)
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14:37:09
                                                                                                                                                                                                                                                                                                                                                                                            PAGE 36
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                               FLAT
                                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                         INCLUDING SOURCE(S):
                                                                                                                                                                                              VOL1
                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                      ** CONC OF CO IN PPM
                                          372146.85 372176.85 372206.85 372236.85
   (METERS)
                                                      0.00829 (06090608) 0.00972 (06090608) 0.01052 (06090608) 0.01042 (06090608) 0.01020 (06090508)
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3757901.2 |
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*** AERMOD - VERSION 09292 *** *** Site 14
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14:37:09
                                                                                                                  0.01702 (05112808)
                                                                                                                                                                                                                                                       0.01568 (06021608)
                                                                                                                                                                                                                                                                                                                                       PAGE 37
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                               *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol1 \, ,
                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                         ** CONC OF CO IN PPM
                                                                                                                                                        X-COORD (METERS)
372206.85 372236.85
  V-COOPD
                                             372146.85 372176.85
                                             0.01571 (05112808) 0.01566 (05112808) 0.01501 (05112808) 0.01450 (06021608) 0.01464 (05112808) 0.01428 (05112808) 0.01349 (06021608) 0.01337 (06021608) 0.01352 (05112808) 0.01294 (05112808) 0.01258 (06021608) 0.01238 (06011008) 0.01240 (05112808) 0.01176 (06021608) 0.01168 (06021608) 0.01147 (06011008) 0.01130 (05112808) 0.01104 (06021608) 0.01168 (06021608) 0.01047 (06011008) 0.01130 (05112808) 0.01104 (06021608) 0.01092 (06011008) 0.01081 (06010924) 0.0038 (06021608) 0.00973 (06011008) 0.01020 (06011008) 0.00975 (06010924) 0.00975 (06010924) 0.00975 (06010924) 0.00975 (06010924) 0.00975 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (06011008) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (06011008) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (06011008) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0.00875 (060110924) 0
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3756761.2 | 0.01038 (05021608)
3756701.2 | 0.00979 (06021608)
3756701.2 | 0.00979 (06011008)
3756701.2 | 0.00875 (06011008)
3756701.2 | 0.00875 (06011008)
3756671.2 | 0.00826 (06011008)
*** AERMOD - VERSION 09292 *** ***
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                                                                                              *** Site 14 - CO
                                                                                                                                                                                                                                                                                                                                       PAGE 38
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                                *** THE
                                                                                                          1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                            INCLUDING SOURCE(S):
                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                      ** CONC OF CO
                                                                                                                                                          IN PPM
                                                                                                                                                                   X-COORD (METERS)
                                               372296.85 372326.85 372356.85
                                                                                                                                                                                                                                                       372386.85
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        0.00878 (07020524)
        0.00899 (05101424)

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        0.00973 (06090508)
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        0.00976 (06090508)
        0.00937 (07020524)
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        0.01086 (06090508)
        0.01077 (07020524)
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        0.01196 (05101424)

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        0.01414 (05071408)

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        0.01702 (07020524)

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 3757421.2
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 3757301.2
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NODRYDPLT NOWETDPLT
                                                                                    *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                               INCLUDING SOURCE(S):
                                                                                                                                                                          VOT-1
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                             ** CONC OF CO IN PPM
                                  X-COORD (METERS)
372296.85 372326.85 372356.85 372386.85 372416.85
   Y-COORD
   Y-COORD |
(METERS) |
                                       3756881.2
3756851.2
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0.01043 (06010924) 0.01076 (06010924)
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 3756821.2
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 3756641.2
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                                                                                                                                                                                        FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                     *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                             INCLUDING SOURCE(S): VOL1 ,
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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   Y-COORD
   r-COORD |
(METERS) |
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3757991.2
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  3757751.2
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PAGE 41
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                   *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                             ** CONC OF CO IN PPM
                                   X-COORD (METERS)
372446.85 372476.85 372506.85 372536.85
                                       0.01705 (07081508) 0.01732 (07081508) 0.01592 (07081508) 0.01335 (07081508) 0.01117 (07022824) 0.01599 (07081508) 0.01620 (07081508) 0.01493 (07081508) 0.01260 (07081508) 0.01043 (07081424) 0.01504 (07081508) 0.01520 (07081508) 0.01404 (07081508) 0.01191 (07081508) 0.00988 (07081424) 0.01418 (07081508) 0.01430 (07081508) 0.01324 (07081508) 0.01330 (07081508) 0.00938 (07081424) 0.01340 (07081508) 0.01351 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (07081508) 0.01323 (0708
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0.00973 (07081508)
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**MODELOPTS: NonDFAULT CONC
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                                                                                      *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                               ** CONC OF CO
                                                                                                                                                                      IN PPM
                                                                                                                                                                                   X-COORD (METERS)
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(METERS) |
                                    372596.85 372626.85 372656.85 372686.85

        0.01231 (07083108)
        0.01171 (07083108)
        0.01064 (07083108)
        0.00994 (05110224)

        0.01303 (07083108)
        0.01226 (07083108)
        0.01101 (07083108)
        0.01080 (05110224)

        0.01380 (07083108)
        0.01284 (07083108)
        0.01137 (07083108)
        0.01174 (05110224)

        0.01464 (07083108)
        0.01344 (07083108)
        0.01240 (05110224)
        0.01275 (05110224)

        0.01554 (07083108)
        0.01466 (07083108)
        0.01362 (05110224)
        0.01384 (05110224)

        0.01652 (07083108)
        0.01470 (07083108)
        0.01497 (05110224)
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*** AERMOD - VERSION 09292 *** *** Site 14 - CO
                                                                                                                                                                                                                                                                                                                                                              10/26/10
                                                                                                                                                                                                                                                                                                                                                               14:37:09
                                                                                                                                                                                                                                                                                                                                                                PAGE
                                                                                                                                                                                              FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                       *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                INCLUDING SOURCE(S):
                                                                                                                                                                              VOL1
                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                ** CONC OF CO IN PPM
                                                                                                                                                                        X-COORD (METERS)
  Y-COORD | X-COORD (METERS)
(METERS) | 372596.85 372626.85 372656.85 372686.85 372716.85
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 3756761.2
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3756641.2 |
                                                                                                                                                                                                                                                                                                                                                                PAGE 44
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                                   1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                 INCLUDING SOURCE(S):
                                                                                                                                                                              VOL1 ,
                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                               ** CONC OF CO IN PPM
                                                                                                                                                                                X-COORD (METERS)
  Y-COORD |
(METERS) |
                                | 372746.85 372776.85 372806.85 372836.85 372866.85
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                                                                                                                                                                                                                                                                                                                                                                                                              PAGE 45
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                 FLAT
NODRYDPLT NOWETDPLT
                                                                                                *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                             ** CONC OF CO IN PPM
                                                                                                                                                                                                        X-COORD (METERS)
   Y-COORD
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0.00675 (05120308)
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**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                        FLAT
                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                         IN PPM
                                                                                                                              ** CONC OF CO
                                                                                                                                                                                                 X-COORD (METERS)
   Y-COORD
                                        X-CUORD (METERS)
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14:37:09
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FI.AT

**MODELOPTS: NonDEAULT CONC

NODRYDPLT NOWETDPLT

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1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                                                       VOL1
                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                     ** CONC OF CO IN PPM
    Y-COORD
                                                                                                                                                                                       X-COORD (METERS)
                                                       372896.85 372926.85 372956.85 372986.85 373016.85

        0.01151 (07090808)
        0.00980 (07090808)
        0.00815 (05012908)

        0.01199 (07090808)
        0.01071 (07090808)
        0.00901 (07090808)

        0.01206 (07090808)
        0.01130 (07090808)
        0.00995 (07090808)

        0.01177 (07090808)
        0.01154 (07090808)
        0.01063 (07090808)

        0.01115 (07090808)
        0.011143 (07090808)
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                                                                                                                              0.01143 (07090808)
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*** AERMOD - VERSION 09292 ***
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14:37:09
                                                                                                                                                                                                    FLAT
NODRYDPLT NOWETDPLT
                                                                                          *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                       ** CONC OF CO
                                                                                                                                                                            IN PPM
   (METERS)
                                                                                                                                                                               X-COORD (METERS)
                                     373046.85 373076.85 373166.85 373136.85 373166.85
                                                   0.00717 (06051624) 0.00699 (05071708) 0.00679 (05071708) 0.00651 (05071708) 0.00751 (05071708) 0.00728 (05071708) 0.00696 (05071708) 0.00656 (05071708) 0.00784 (05071708) 0.00747 (05071708) 0.00702 (05071708) 0.00703 (05082708) 0.00802 (05082708) 0.00802 (05082708) 0.00812 (05082708) 0.00812 (05082708) 0.00812 (05082708) 0.00812 (05082708) 0.00812 (05082708) 0.00812 (05082708) 0.00952 (05082708) 0.01037 (05082708) 0.01108 (05082708) 0.01125 (05082708) 0.01125 (05082708) 0.01125 (05082708) 0.01125 (05082708) 0.01125 (05082708) 0.01126 (05082708) 0.01268 (05082708) 0.01363 (05082708) 0.01335 (05082708) 0.01305 (05082708) 0.01268 (05082708) 0.01418 (05082708) 0.01363 (05082708) 0.01365 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.013618 (05082708) 0.01365 (05082708) 0.01268 (05082708) 0.013618 (05082708) 0.01365 (05082708) 0.01268 (05082708) 0.01318 (05082708) 0.01255 (05082708) 0.01268 (05082708) 0.01126 (05082708) 0.01365 (05082708) 0.01268 (05082708) 0.01365 (05082708) 0.01268 (05082708) 0.01365 (05082708) 0.01268 (05082708) 0.01368 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05082708) 0.01268 (05
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0.01271 (05082424)

0.01363 (05090224)

0.01363 (05090224)

0.01539 (05090224)

0.01539 (05090224)

0.01423 (051212424)

0.01372 (051212424)

0.01372 (07120224)

0.01413 (07120224)

0.01413 (07120224)
3757841.2
3757811.2
3757781.2
3757751.2
3757721.2
3757691.2
                                                                                                                                                                                                                                                                                   0.01017 (06090924)

0.01051 (05082424)

0.01147 (05090224)

0.01230 (05090224)

0.01230 (05090224)

0.01239 (05090224)

0.01239 (05090224)

0.01159 (05090224)

0.01135 (05121424)
  3757661.2
  3757631.2
  3757601.2
 3757571.2
                                                                                                                                                                                                                                                                                     0.01068 (05121424)
                                                                                                                                                                                                        0.01205 (07120224)
0.01237 (07120224)
0.01237 (07120224)
0.01219 (07120224)
0.01155 (07120224)
                                                                                                                                                                                                                                                                                    0.01133 (07120224)
0.01157 (07120224)
0.01158 (07120224)
  3757481.2
                                                     0.01413 (07120224)
0.01337 (07120224)
                                                                                                                                                                                                                                                                                                                                                               0.01064 (07120224)
0.01009 (07120224)
 3757451.2
                                                                                                                                                                                                                                                                                     0.01078 (07120224)
 3757421.2
                                                     0.01405c(06072908)
                                                                                                                               0.01301c(06072908)
0.01330c(06072908)
                                                                                                                                                                                                         0.01209c(06072908)
                                                                                                                                                                                                                                                                                     0.01126c(06072908)
                                                                                                                                                                                                                                                                                                                                                               0.01052c(06072908)
                                                                                                                                                                                                                                                                                   0.01126c(06072908)

0.01160c(06072908)

0.01147c(06072908)

0.01092c(06072908)

0.01037 (07090708)

0.00966 (07090708)

0.00873 (07090708)

0.00829 (05070208)

0.00869 (05070208)
  3757391.2
                                                     0.01429c(06072908)
                                                                                                                                                                                                         0.01240c(06072908)
                                                                                                                                                                                                                                                                                                                                                               0.01086c(06072908)
                                                   0.01429c(06072908)

0.01381c(06072908)

0.01311 (07090708)

0.01225 (07090708)

0.01101 (07090708)

0.01042 (05070208)

0.01042 (05070208)

0.01067 (05070208)
                                                                                                                                                                                                       0.01240c(06072908)

0.01220c(06072908)

0.01150c(06072908)

0.01096 (07090708)

0.01010 (07090708)

0.00901 (07090708)

0.00909 (05070208)
3757361.2
3757331.2
3757301.2
3757271.2
                                                                                                                               0.01298c(06072908)
0.01226 (07090708)
0.01159 (07090708)
0.01055 (07090708)
                                                                                                                                                                                                                                                                                                                                                              0.01081c(06072908)
0.01037c(06072908)
0.00981 (07090708)
0.00923 (07090708)
                                                                                                                                                                                                                                                                                                                                                             0.00843 (07090708)

0.00843 (07090708)

0.00756 (05070208)

0.00801 (05070208)

0.00825 (05070208)

0.00825 (05070208)

0.00800 (05070208)

0.00754 (05070208)
                                                                                                                              0.00943 (05070208)
0.00992 (05070208)
0.01008 (05070208)
0.00988 (05070208)
  3757241.2
  3757211.2
                                                                                                                                                                                                        0.00909 (05070208)
0.00938 (05070208)
0.00937 (05070208)
0.00904 (05070208)
0.00846 (05070208)
0.00800 (07091108)
  3757181.2
                                                                                                                                                                                                                                                                                    0.00869 (05070208)
0.00882 (05070208)
0.00867 (05070208)
0.00826 (05070208)
0.00765 (05070208)
                                                     0.01034 (05070208)
0.00958 (05070208)
0.00862 (06051408)
0.00855 (06051408)
  3757151.2
                                                                                                                               0.00988 (05070208)
0.00936 (05070208)
0.00857 (05070208)
0.00818 (07091108)
                                                                                                                                                                                                         0.00774 (07091108)
  3757031.2
                                                     0.00837
                                                                              (05012908)
                                                                                                                               0.00788 (06051408)
                                                                                                                                                                                                                                                                                     0.00770 (07091108)
                                                                                                                                                                                                                                                                                                                                                               0.00744 (07091108)
  3757001.2
                                                     0.00836 (05012908)
                                                                                                                               0.00772 (05012908)
                                                                                                                                                                                                        0.00728 (06051408)
0.00715 (05012908)
                                                                                                                                                                                                                                                                                     0.00728 (07091108)
                                                                                                                                                                                                                                                                                                                                                               0.00736 (07091108)
 3756971.2 | 0.00826 (05012908) 0.007
3756971.2 | 0.00826 (05012908) 0.007
3756941.2 | 0.00805 (05012908) 0.007
*** AERMOD - VERSION 09292 *** *** Site 14
                                                                                                                               0.00772 (05012908)
0.00771 (05012908)
0.00762 (05012908)
te 14 - CO
                                                                                                                                                                                                                                                                                                                                                              0.00682 (07091108)
0.00682 (07091108)
0.00626 (06051408)
10/26/10
14:37:09
                                                                                                                                                                                                                                                                                    0.00674 (06051408)
                                                                                                                                                                                                0.00715 (050122...)
                                                                                                                                                                                                                                                                                    0.006/4 (050555...
0.00665 (05012908)
***
                                                                                                                                                                                                                                                                                                                                                                             PAGE
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                         *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                  ** CONC OF CO IN PPM
                                                                                                                                                                                     X-COORD (METERS)
373106.85
   Y-COORD
                                     373046.85 373076.85 373106.85 373136.85 373166.85

        0.00776 (05012908)
        0.00743 (05012908)
        0.00705 (05012908)
        0.00633 (05012908)
        0.00620 (05012908)

        0.00738 (050122908)
        0.00720 (06081608)
        0.00693 (06081608)
        0.00655 (05012908)
        0.00618 (05012908)

        0.00695 (05012908)
        0.00688 (06081608)
        0.00640 (06081608)
        0.00670 (06081608)
        0.00671 (06081608)

        0.00648 (05012908)
        0.00646 (05012908)
        0.00664 (06081608)
        0.00671 (06081608)
        0.00650 (06081608)

 3756911.2
 3756881.2
3756851.2
                                                                                                                              0.00688 (06081608) 0.00694 (06081608) 0.00646 (05012908) 0.00664 (06081608) 0.00605 (05012908) 0.00667 (05081608) 0.00647 (07090808) 0.00566 (05012908) 0.00737 (07090808) 0.00596 (07090808) 0.00817 (07090808) 0.00684 (07090808) 0.00882 (07090808) 0.00884 (07090808) 0.00882 (07090808) 0.00882 (07090808) 0.00882 (07090808) 0.00882 (07090808) 0.00881 (07090808)
                                                                                                                                                                                                                                                                                     0.00670 (06081608)
0.00671 (06081608)
0.00642 (06081608)
0.00588 (06081608)
  3756731.2
                                                     0.00874 (07090808)
                                                                                                                                                                                                                                                                                    0.00530 (05012908)
0.00551 (07090808)
                                                                                                                                                                                                                                                                                                                                                               0.00570 (06081608)
 3756701.2
                                                     0.00935 (07090808)
                                                                                                                                                                                                                                                                                                                                                               0.00505 (06081608)
 3756671.2 |
3756641.2 |
                                                    0.00973 (07090808)
0.00987 (07090808)
                                                                                                                                                                                                                                                                                   0.00635 (07090808)
                                                                                                                                                                                                                                                                                                                                                               0.00509 (07090808)
0.00589 (07090808)
                                                                                                                                                                                                                                                                                   0.00713 (07090808)
                                                                                                                                                                                                                                                                                                                                                                             10/26/10
14:37:09
PAGE 50
  *** AERMOD - VERSION 09292 ***
                                                                                                   *** Site 14 - CO
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
```

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUD: ALL

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

0.03140 (06053108) 372200.97 3757196.42 0.03186 (06053108)
0.01637 (07090808) 372746.74 3757147.17 0.01877 (05012908)
0.02165 (05012908) 372894.46 3757118.45 0.01347 (05012908)
0.03375 (06090508)

*** Site 14 - CO X-COORD (M) Y-COORD (M) 372149.67 3757202.57 372734.43 3757020.57 372767.26 3757192.31 372371.27 3757725.77 *** AERMOD - VERSION 09292 *** PAGE 51

**MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN PPM

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID ALL HIGH 1ST HIGH VALUE IS 0.26626 ON 05082707: AT (372566.85, 3757511.16, 10.00, 10.00, 0.00) GC UCART1 *** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Site 14 - CO

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**MODELOPTS: NonDFAULT CONC FLAT

NODRYDPLT NOWETDPLT

** CONC OF CO IN PPM

AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

ALL HIGH 1ST HIGH VALUE IS 0.12725 ON 07011008: AT (372386.85, 3757391.16, 10.00, 10.00, 0.00) GC UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Site 14 - CO

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**MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT

*** Message Summary : AERMOD Model Execution *** ----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s) A Total of 0 Warning Message(s) A Total of 152 Informational Message(s) A Total of 26280 Hours Were Processed

A Total of 15 Calm Hours Identified 137 Missing Hours Identified (0.52 Percent)

******* FATAL ERROR MESSAGES *******

*** NONE ***

****** WARNING MESSAGES ****** NONE

****** *** AERMOD Finishes Successfully ***

```
**

** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 14\NO2.ADI
 ***********
 ** AERMOD Control Pathway

**
**
 CO STARTING
TITLEONE Site 14 - NO2
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 ANNUAL
     URBANOPT 9862049 Los_Angeles_County
OKBANOPT 9862
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
 ** AERMOD Source Pathway
 **
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOLI VOLUME 372476.980 3757462.370 0.0

** DESCRERC Equipment

** Source Parameters **
     SECPARAM VOLI 0.0798 4.100 46.783 1.163
URBANSRC VOLI
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
 SO FINISHED
 ************
 ** AERMOD Receptor Pathway
 RE STARTING
     GRIDCART UCART1 STA
     DISCCART
DISCCART
DISCCART
RE FINISHED
ME STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UARDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
 ** AERMOD Meteorology Pathway
 *********
 ** AERMOD Output Pathway
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
PLOTFILE ANNUAL ALL NO2.AD\an00GALL.PLT
OU FINISHED
  *******
  *** SETUP Finishes Successfully ***
  10/26/10
  **MODELOPTS: NonDFAULT CONC
                                                                                                NODRYDPLT NOWETDPLT
                                                                *** MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
         DEPOSITION LOGIC -
  **NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**MOO PARTICLE DEPOSITION DATA PROVIDED:
**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F
  **Model Uses URBAN Dispersion Algorithm for the SBL for $\tt 1 Source(s)\tt, $\tt 1 Source(s)\tt, }
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
```

```
**Model Allows User-Specified Options:
                       1. Stack-tip Downwash.
                      1. Stack-tip Downwasn.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR
              and Calculates ANNUAL Averages
**This Run Includes: 1 Source(s);
                                                                                                                                   1 Source Group(s); and 2507 Receptor(s)
**The Model Assumes A Pollutant Type of: NOX
**Model Set To Continue RUNning After the Setup Testing.
                          Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000 Emission Units = GRAMS/SEC ; Emission Rate Unit Output Units = PPM
                                                                                                                                                                                                                                                                                                                        Rot. Angle
                                                                                                                                                                                                                                                                                                                                                                         0.0
                                                                                                                                                                                                                                           Emission Rate Unit Factor =
                                                                                                                                                                                                                                                                                                                                            531.50
**Approximate Storage Requirements of Model = 3.8 MB of RAM.
14:41:17
                                                                                                                                                                                                                                                                                                                                                                        PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                   FLAT
                                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                                                                    *** VOLUME SOURCE DATA ***
                                          NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE PART. (USER UNITS) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY CATS. (METERS)                                        NUMBER EMISSION RATE
            SOURCE
VOL1 0 0.79800E-01 372477.0 3757462.4
*** AERMOD - VERSION 09292 *** *** Site 14 - NO2
                                                                                                       *** Site 14 - NO2
                                                                                                                                                                                                                                                                                                                                                                        10/26/10
                                                                                                                                                                                                                                                                                                                                                                        14:41:17
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                  FLAT
NODRYDPLT NOWETDPLT
                                                                                                                              *** SOURCE IDS DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                                          SOURCE IDs
10/26/10
                                                                                                                                                                                                                                                                                                                                                                         14:41:17
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                                      *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                                    *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                         *** X-COORDINATES OF GRID ***
(METERS)
                 371694.5, 371724.5, 371754.5, 371784.5, 371814.5, 371844.5, 371874.5, 371904.5, 371904.5, 371934.5, 371994.5, 371994.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 37204.5, 
                                                                                                                            *** Y-COORDINATES OF GRID ***
                                                                                                                                                            (METERS)
              3756656.7, 3756866.7, 3756716.7, 3756746.7, 3756746.7, 3756806.7, 3756866.7, 3756866.7, 3756896.7, 3756926.7, 3756956.7, 3756956.7, 3757046.7, 3757046.7, 3757046.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 3757166.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 375716.7, 3
10/26/10
                                                                                                                                                                                                FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                                                                       *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
( 372149.7, 3757202.6,
( 372734.4, 3757083.6,
( 372767.3, 3757192.3,
( 372371.3, 3757725.8,
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                 ( 372201.0, 3757196.4,
( 372746.7, 3757147.2,
( 372894.5, 3757118.4,
                                                                                                10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
*** Site 14 - NO2
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**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                   NODRYDPLT NOWETDPLT
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^{*} SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED * LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

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SOURCE
                                                                                                    - RECEPTOR LOCATION -
                                                                                                                                                                       DISTANCE
                                                                                               XR (METERS) YR (METERS)
                                                                 VOL1
                                                                                                       372474.5
                                                                 VOL1
                                                                                                       372504.5
                                                                                                                                  3757376.7
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372504.5
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-44.87
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-20.56
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                                                                                                       372384.5
372414.5
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                                                                                                      372414.5
372444.5
372474.5
372504.5
372534.5
372564.5
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-59.17
-74.80
-62.97
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-9.40
-7.98
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-12.98
                                                                                                      372444.5
372474.5
372504.5
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372384.5
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-29.27
                                                                 VOL1
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372444.5
                                                                 VOL1
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                                                                 VOL1
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                                                                 VOL1
                                                                                                       372414.5
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                                                                                                       372504.5
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 *** AERMOD - VERSION 09292 ***
                                                                                                       372504.5
                                                                         *** Site 14 - NO2
                                                                                                                                                                                                                                                          14:41:17
 **MODELOPTs: NonDFAULT CONC
                                                                                           *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                                                                                    (1=YES; 0=NO)
                       NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                                      *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                                                     1.54, 3.09, 5.14, 8.23, 10.80,
 *** AERMOD - VERSION 09292 ***
                                                                      *** Site 14 - NO2
                                                                                                                                                                                                                                                         14:41:17
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                        FLAT
NODRYDPLT NOWETDPLT
                                                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
     Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341 Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
     Surface format: FREE
Profile format: FREE
Surface station no.: 0
Name: UNKNOWN
                                                                     Upper air station no.: 3190
Name: UNKNOWN
                                     Year: 2005
                                                                                                                                            Year:
First 24 hours of scalar data
YR MO DY JDY HR
HO
U*
W*
DT/DZ ZICNV ZIMCH
HO-
LEN
ZO
BOWEN ALBEDO
REF WS
MD

05 01 01 1 02 -3.9 0.062 -9.000 -9.000 -999. 35. 6.5 0.26 1.00 1.00 1.10 52.
05 01 01 1 02 -3.9 0.073 -9.000 -9.000 -999. 45. 8.9 0.26 1.00 1.00 1.00 1.30 51.
05 01 01 1 0 4 -2.3 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 48.
05 01 01 1 0 5 -2.8 0.062 -9.000 -9.000 -999. 30. 6.8 0.26 1.00 1.00 1.00 48.
05 01 01 1 05 -2.8 0.062 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.10 62.
05 01 01 1 06 -5.3 0.078 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.10 62.
05 01 01 1 0 6 -3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.20 55.
05 01 01 1 08 -4.9 0.067 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 1.00 1.20 55.
05 01 01 1 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.30 2.20 78.
05 01 01 1 10 144. 0.293 1.397 0.005 862. 365. -19.9 0.26 1.00 0.30 2.20 78.
05 01 01 1 1 11 144. 0.293 1.397 0.005 862. 376. -17.3 0.26 1.00 0.02 2.10 83.
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15.0 0.122 0.797 0.010 1215.
28.1 0.223 0.983 0.010 1221.
17.9 0.256 0.847 0.009 1225.
4.2 0.231 0.521 0.009 1226.
0.1 0.180 0.151 0.009 1226.
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-84.4 0.26
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-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.9 0.050 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -9999.
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First hour of profile data YR MO DY HR HEIGHT F WDIR 05 01 01 01 5.5 0 -999. 05 01 01 01 9.1 1 52.
                                       WSPD AMB_TMP sigmaA sigmaW sigmaV
                                    -99.00 282.6 99.0 -99.00 -99.00
1.10 -999.0 99.0 -99.00 -99.00
                           52.
14:41:17
**MODELOPTS: NonDEAULT CONC
                                                                                    NODRYDDIA NOWETDDIA
                       *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                           INCLUDING SOURCE(S):
                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                  ** CONC OF NOX
                                                                            TN DDM
                                                                       X-COORD (METERS)
371784.48 371814.48
                       371694.48 371724.48 371754.48
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 *** AERMOD - VERSION 09292 ***
                                            *** Site 14 - NO2
                                                                                                                                                         10/26/10
                                                                                                                                                          14:41:17
                                                                                                                                                          PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                   NODRYDPLT NOWETDPLT
                        *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                           INCLUDING SOURCE(S):
                                                                             VOI-1
                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                X-COORD (METERS)
                                                                         371784.48 371814.48 371844.48 371874.48 371904.48 371934.48
                      371694.48 371724.48 371754.48
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*** AERMOD - VERSION 09292 ***
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**MODELOPTS: NonDFAULT CONC
                                                                                   NODRYDPLT NOWETDPLT
                       *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                           INCLUDING SOURCE(S):
                                                                             VOL1
                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                X-COORD (METERS)
                                                                                                            372114.48 372144.48
                       371964.48
                                       371994.48
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   (METERS)
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**MODELOPTS: NonDFAULT CONC
                                                                                            FLAT
                                                                                            NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                   VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                               INCLUDING SOURCE(S):
                                                                                     VOL1
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                      ** CONC OF NOX
                                                                                     TN DDM
                                                                                        X-COORD (METERS)
                                         371994.48 372024.48
                                                                                  372054.48 372084.48
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 3756926.71
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3756866.71
3756836.71
3756806.71
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**MODELOPTs: NonDFAULT CONC
                                                                                            FLAT
                                                                                            NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                   VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                        ** CONC OF NOX
                                                                                     IN PPM
                                                                                  X-COORD (METERS)
372324.48 372354.48
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 3758126.71
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  3758096.71
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3757016.71 3756986.71	0.00024 0.00021 0.00019 VERSION 09292 ***	0.00024 0.00021	0.00023 0.00021	0.00023 0.00021	0.00023 0.00020	0.00023 0.00020	0.00022 0.00020	0.00022 0.00020	0.00022 0.00019
3756956.71 *** AERMOD -	0.00019 VERSION 09292 ***	0.00019 *** Site 1	0.00019 4 - NO2	0.00019	0.00018	0.00018	0.00018	0.00018	0.00017 0/26/10
		***						*** 1	1:41:17 AGE 14
**MODELOPTs:	NonDFAULT CONC			FLAT NODR	YDPLT NOWETDE	PLT			
	*** THE ANNUA	L AVERAGE CON	CENTRATION	VALUES AVE	RAGED OVER	3 YEARS FOR S	SOURCE GROUP:	ALL ***	
	*** THE ANNUA	INCLUDING S	OURCE(S):	VOL1 ,					
		*** NETWOR	K ID: UCARTI	l ; NETWOR	K TYPE: GRIDO	CART ***			
		** CO	NC OF NOX	IN PPM			**		
Y-COORD (METERS)		372264.48	372294.48	X-COORD 372324.48	(METERS) 372354.48	372384.48	372414.48	372444.48	372474.48
3756926.71 3756896.71		0.00017 0.00015	0.00017 0.00015	0.00017 0.00015	0.00017 0.00015	0.00016 0.00015	0.00016 0.00015	0.00016 0.00015	0.00016 0.00014
3756866.71 3756836.71	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00013	0.00013
3756806.71 3756776.71	0.00012	0.00012 0.00011	0.00012 0.00011	0.00012 0.00011	0.00012 0.00011	0.00012 0.00011	0.00011	0.00011	0.00011
3756746.71 3756716.71	0.00010	0.00010 0.00010	0.00010 0.00009	0.00010	0.00010 0.00009	0.00010	0.00010	0.00010	0.00010
3756686.71 3756656.71	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00008
*** AERMOD -	VERSION 09292 ***	*** Site 1	4 - NO2					1,	0/26/10 4:41:17
**MODELOPTs:	NonDFAULT CONC			FLAT					AGE 15
				NODR	YDPLT NOWETDE	PLT			
	*** THE ANNUA	L AVERAGE CON INCLUDING S	CENTRATION OURCE(S):	VALUES AVE	RAGED OVER	3 YEARS FOR S	SOURCE GROUP:	ALL ***	
				l ; NETWOR		CART ***			
			NC OF NOX				**		
Y-COORD	I				(METERS)				
(METERS)	372504.48			372594.48	372624.48			372714.48	
3758126.71	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013
3758096.71 3758066.71	0.00014 0.00015	0.00014	0.00014	0.00014	0.00014 0.00016	0.00014	0.00014 0.00016	0.00014 0.00015	
3758036.71 3758006.71	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017
3757976.71 3757946.71	0.00020	0.00020	0.00021	0.00021	0.00021	0.00021	0.00020	0.00020	0.00020
3757916.71	0.00022	0.00025	0.00025	0.00025	0.00023	0.00025	0.00025	0.00022	0.00022
3757886.71 3757856.71	0.00028	0.00028	0.00029	0.00029	0.00029	0.00028	0.00028	0.00028	0.00020 0.00022 0.00024 0.00027 0.00031 0.00035
3757826.71 3757796.71	0.00042	0.00037	0.00037 0.00044	0.00037 0.00044	0.00037	0.00037	0.00036 0.00042	0.00036 0.00041	0.00035
3757766.71 3757736.71	0.00050	0.00051 0.00061	0.00051 0.00062	0.00051 0.00062	0.00051 0.00061	0.00050 0.00059	0.00049 0.00057	0.00041 0.00047 0.00055	0.00046 0.00052
3757706.71 3757676.71	0.00074	0.00076 0.00096	0.00076 0.00097	0.00076 0.00095	0.00074 0.00091	0.00071 0.00086	0.00068	0.00064 0.00075	0.00060
3757646.71 3757616.71	0.00124 0.00169	0.00128 0.00176	0.00127 0.00171	0.00122 0.00159	0.00091 0.00114 0.00143	0.00105 0.00127	0.00096 0.00112	0.00086	0.00077
3757586.71 3757556.71	0.00223	0.00245 0.00287	0.00235	0.00208	0.00178	0.00150	0.00126 0.00137	0.00107	0.00090
3757526.71 3757496.71	0.00000	0.00000	0.00367	0.00314	0.00238	0.00182	0.00142 0.00138	0.00113	0.00092 0.00087
3757466.71 3757436.71	0.00000	0.00000	0.00000	0.00293	0.00227	0.00166	0.00126	0.00098	0.00079
3757406.71	0.00000	0.00000	0.00208	0.00180	0.00149 0.00117	0.00142 0.00117 0.00095	0.00109 0.00092 0.00077	0.00075	0.00070 0.00062 0.00054
3757376.71 3757346.71	0.00184	0.00206	0.00176	0.00145	0.00117	0.00078	0.00077	0.00055	0.00054 0.00047 0.00042 0.00037 0.00033
3757316.71 3757286.71	0.00103	0.00122	0.00106	0.00090	0.00077 0.00063	0.00065	0.00056	0.00048	0.00042
3757256.71 3757226.71	0.00079	0.00073 0.00059	0.00067 0.00055	0.00060	0.00053	0.00047	0.00042 0.00037	0.00037	0.00033
3757196.71 3757166.71	0.00043	0.00049	0.00046	0.00042 0.00036	0.00039	0.00036 0.00031	0.00033	0.00030 0.00027	0.00027 0.00024
3757136.71 3757106.71	0.00036	0.00035	0.00033	0.00032	0.00030 0.00026	0.00028 0.00025	0.00026	0.00024	0.00022
3757076.71 3757046.71	0.00027 0.00024	0.00026 0.00023	0.00025	0.00025	0.00023	0.00022	0.00021	0.00020	0.00019 0.00017
3757016.71 3756986.71	0.00021	0.00021	0.00020	0.00020	0.00019	0.00018	0.00017 0.00016	0.00017 0.00015	0.00016 0.00015
3756956.71 *** AERMOD -	0.00019 0.00017 VERSION 09292 ***	0.00017 *** Site 1	0.00016 4 - NO2	0.00016	0.00016	0.00015	0.00015	0.00014	0.00013
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**MODELOPTs:	NonDFAULT CONC			FLAT	YDPLT NOWETDE	יז.יד		-	
	*** THE ANNUA	I. AVERAGE CON	CENTRATION				SOURCE GROUP:	AT.T. ***	
				VOL1 ,					
		*** NETWOR	K ID: UCARTI	l ; NETWOR	K TYPE: GRIDO	CART ***			
		** CO	NC OF NOX	IN PPM			**		
Y-COORD (METERS)				372594.48					
3756926.71									
3756896.71 3756866.71	0.00014 0.00013	0.00014	0.00014	0.00013 0.00012	0.00013 0.00012	0.00013 0.00012	0.00012 0.00012	0.00012	0.00012
3756836.71 3756806.71	0.00012	0.00012	0.00012	0.00011	0.00011	0.00011	0.00011	0.00010	0.00010
3756776.71	0.00011	0.00011	0.00011	0.00011	0.00010	0.00009	0.00010	0.00010	0.00009
3756746.71 3756716.71	0.00010	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00008
3756686.71 3756656.71		0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00007

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14:41:17
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**MODELOPTS: NonDEAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                       VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                 INCLUDING SOURCE(S):
                                                                                         VOL1
                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                       ** CONC OF NOX
                                                                                        IN PPM
                                                                                            X-COORD (METERS)
                          372774.48 372804.48 372834.48
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                                                                                                NODRYDPLT NOWETDPLT
                                                                                       VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                           *** THE ANNUAL AVERAGE CONCENTRATION
                                                  INCLUDING SOURCE(S):
                                                                                         VOL1
                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
    Y-COORD
                                                                                            X-COORD (METERS)
    (METERS)
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**MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                      VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                 INCLUDING SOURCE(S):
                                                                                         VOL1
                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                        IN PPM
                                                                                            X-COORD (METERS)
    (METERS)
                          373044.48 373074.48 373104.48 373134.48 373164.48
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*** AERMOD - VERSION 09292 ***
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*** Site 14 - NO2
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                                                                                                                                                                                                                                                                                               PAGE 20
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                            FLAT
                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                INCLUDING SOURCE(S):
                                                                                                                                                VOL1 ,
                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                             ** CONC OF NOX
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*** Site 14 - NO2
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3756656.71 0.00005
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                14:41:17
                                                                                                                                                                                                                                                                                               PAGE 21
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                            FLAT
                                                                                                                                                           NODRYDPLT NOWETDPLT
                                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                                INCLUDING SOURCE(S):
                                                                                                                                                VOL1
                                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                          ** CONC OF NOX IN PPM
                                                                                             CONC X-COORD (M) Y-COORD (M) 0
0.00046 372200.97 3757196.42 0
0.00019 372746.74 3757147.17 0.00025 372894.46 3757118.45
              CONC
                                                                                                                                                                                                                                                0.00050
372734.43 3757083.57
372767.26 3757192.31
372371.27 3757725.77
*** AERMOD - VERSION 09292 ***
                                                                               0.00025
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*** Site 14 - NO2
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                                                                                                                                                                                                                                                 0.00015
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                      *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                            ** CONC OF NOX IN PPM
                                                                                                                              X-COORD (METERS)
371754.48 371784.48
   Y-COORD
                                          371694.48 371724.48
                                        0.00374 (05010409) 0.00367 (05010409) 0.00344 (05010409) 0.00309 (05010409) 0.00373 (05010409) 0.00384 (05010409) 0.00379 (05010409) 0.00388 (05010409) 0.00364 (07090907) 0.00379 (05010409) 0.00393 (05010409) 0.00391 (05010409) 0.00393 (05010409) 0.00391 (05010409) 0.00451 (07090907) 0.00394 (07090907) 0.00454 (07090907) 0.00454 (07090907) 0.00454 (07090907) 0.00454 (07090907) 0.00388 (05010409) 0.00519 (07090907) 0.00514 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00519 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (07090907) 0.00516 (0709
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NODRYDPLT NOWETDPLT
 **MODELOPTS: NonDFAULT CONC
                                                                                  THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                         *** THE
                                                                                    *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                ** CONC OF NOX IN PPM
                                                                                                                                             X-COORD (METERS)
   Y-COORD (METERS)
                                          371694.48
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14:41:17
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NODRYDPLT NOWETDPLT
 **MODELOPTS: NonDFAULT CONC
                                                                         *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL
                                                                                  INCLUDING SOURCE(S):
                                                                                                                                                   VOL1
                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                             ** CONC OF NOX IN PPM
                             X-COORD (METERS)
371844.48 371874.48 371904.48 371934.48
    Y-COORD
                                                                                                                                                                                                                                                                                          371964.48
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3756956.7 | 0.00636 (07070106)
*** AERMOD - VERSION 09292 *** *
                                                                                                      0.00647 (07070106)
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*** Site 14 - NO2
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 **MODELOPTS: NonDFAULT CONC
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                                                                                                 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL.
                                                                                   INCLUDING SOURCE(S):
                                                                                    *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                 ** CONC OF NOX
                                                                                                                                                IN PPM
   Y-COORD |
                                                                                                                                                       X-COORD (METERS)
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(METERS) | 371844.48 371874.48 371904.48 371934.48
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                                                                                                                                                                                                                           PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                     *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                      ** CONC OF NOX IN PPM
                     X-COORD (METERS)
371994.48 372024.48 372054.48 372084.48 372114.48
 Y-COORD |
(METERS) |
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SION 09292 *** *** Site 14 - NO2
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*** AERMOD - VERSION 09292 ***
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**MODELOPTS: NonDEAULT CONC
                                                                                                                      NODRYDPLT NOWETDPLT
                                                                     1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                             INCLUDING SOURCE(S):
                                                                                                             VOL1
                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                     ** CONC OF NOX IN PPM
                                                                                                              X-COORD (METERS)
 Y-COORD |
(METERS) |
                               371994.48 372024.48 372054.48 3
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** AERMOD - VERSION 09292 *** *** Site 14 - NO2
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**MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                      *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                      ** CONC OF NOX IN PPM
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10/26/10
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                                                                                                                                                                                                                                                            PAGE 29
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                         NODRYDPLT NOWETDPLT
                                                               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                ** CONC OF NOX
                                                                                                                        IN PPM
                          X-COORD (METERS)
372144.48 372174.48 372204.48 372234.48 372264.48
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(METERS) |
3756926.7 | 0.00391 (07070203) 0.00396 (06041124) 0.00386 (07072705) 3756866.7 | 0.00364 (07070203) 0.00376 (06041124) 0.00380 (07072705) 3755866.7 | 0.00354 (06041124) 0.00351 (07072705) 0.00362 (05102108) 3756886.7 | 0.00335 (06041124) 0.00351 (07072705) 0.00362 (05102108) 3756806.7 | 0.00335 (06041124) 0.00349 (05102108) 0.00334 (07032008) 375676.7 | 0.00326 (05102108) 0.00344 (05102108) 0.00339 (07032008) 375676.7 | 0.00323 (05102108) 0.00337 (07032008) 0.00317 (07032008) 3756716.7 | 0.00329 (05102108) 0.00326 (07032008) 0.00296 (06090606) 3756716.7 | 0.00315 (07032008) 0.00315 (07032008) 0.00276 (06090606) 3756656.7 | 0.00315 (07032008) 0.00287 (07032008) 0.00263 (06061607) 3756656.7 | 0.00315 (07032008) 0.00263 (07032008) 0.00257 (06061607) *** AERMOD - VERSION 09292 *** Site 14 - NO2
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                                                                                                                                                                                                                                                            PAGE 30
 **MODELOPTS: NonDEAULT CONC
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NODRYDPLT NOWETDPLT
                                                               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                               VOL1
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                ** CONC OF NOX IN PPM
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*** AERMOD - VERSION 09292 ***
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                                                                                                                                                                                                                                                                                                                            PAGE
                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                             *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                    ** CONC OF NOX
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*** AERMOD - VERSION 09292 *** Site 14 - NO2
                                                                                                                                                                                                                                                                                                                          10/26/10
14:41:17
PAGE 32
                                                                                                                                                                         FLAT
NODRYDPLT NOWETDPLT
                                                                                       THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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0.00414 (07103023)
10/26/10
14:41:17
PAGE 33
3756986.7 | 0.00482 (05083003) 0.00471 (07081604) 3756956.7 | 0.00451 (05083003) 0.00471 (07081604) *** AERMOD - VERSION 09292 *** *** Site 14 - NO2 ***
                                                                                                                                                                                                                                              0.00424 (05042±02,
0.00402 (05042102)
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                             *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol1 \, ,
                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                    IN PPM
                                                                                                   ** CONC OF NOX
                                                                                                                                                         X-COORD (METERS)
  (METERS)
                                                372444.48 372474.48 372504.48 372504.48 372564.48
                                            3756896.7 |
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3756836.7 |
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3756746.7 | 0.00345 (06082207) | 0.00345 (05082207) | 0.00305 (06082207) | 0.00305 (06082207) | 0.00305 (06082207) | 0.00305 (06082207) | 0.00297 (06082207) | 0.00297 (06082207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.00290 (0608207) | 0.0029
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0.00226 (05042102)
10/26/10
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                                                                                                                                                                                                                                                                                                                                PAGE 34
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                             NODRYDPLT NOWETDPLT
                                                                              *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                     ** CONC OF NOX IN PPM
                                               372594.48
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NODRYDPLT NOWETDPLT
**MODELOPTS: NonDFAULT CONC
                                                                              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1
                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                              372594.48 372624.48
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   Y-COORD
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14:41:17
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NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                                         1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                         INCLUDING SOURCE(S):
                                                                                                                                                               VOL1 ,
                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                            X-COORD (METERS)
   Y-COORD
                                               372744.48 372774.48 372804.48
  (METERS)
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3757496.7
3757466.7
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0.00587 (07081201)
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0.00870 (06112321)
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 3757286.7
                                            0.00725 (05041521)
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0.00588 (05041521)
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0.00527 (07062901)
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0.00533 (06081607)
 3757256.7
 3757226.7
3757226.7
3757196.7
3757166.7
3757136.7
 3757106.7
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 3757076.7
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0.00477 (07090807)
 3757046.7
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                                                                                                                                                                                                                                                                                                                   PAGE 37
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                      FLAT
                                                                                                                                                                       NODRYDPIAT NOWETDPIAT
                                                                           *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                    ** CONC OF NOX IN PPM
                               X-COORD (METERS)
372744.48 372774.48 372804.48 372834.48 372864.
                                          0.00550 (07090807) 0.00697 (07090807) 0.00799 (07090807) 0.00834 (07090807) 0.00480 (05102308) 0.00595 (07090807) 0.00721 (07090807) 0.00797 (07090807) 0.00456 (05102308) 0.00494 (07090807) 0.00631 (07090807) 0.00735 (07090807) 0.00458 (05102308) 0.00458 (05102308) 0.00537 (07090807) 0.00658 (07090807) 0.00384 (05102308) 0.00498 (05102308) 0.00447 (07090807) 0.00573 (07090807) 0.00342 (05102308) 0.00499 (05102308) 0.00447 (07090807) 0.00573 (07090807) 0.00394 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308) 0.00497 (05102308)
3756926.7 |
3756896.7 |
3756866.7 |
3756836.7 |
3756806.7 |
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0.00807 (07090807)
0.00786 (07090807)
0.00741 (07090807)
0.00677 (07090807)
3756926.7 | 0.00550 (07090807) 0.00697 (07090807)
3756896.7 | 0.00480 (05102308) 0.00595 (07090807)
3756896.7 | 0.00456 (05102308) 0.00459 (07090807)
3756896.7 | 0.00423 (05102308) 0.00458 (05102308)
3756806.7 | 0.00342 (05102308) 0.00458 (05102308)
3756776.7 | 0.00342 (05102308) 0.00438 (05102308)
375674.7 | 0.00299 (05102308) 0.00499 (05102308)
3756756.7 | 0.00278 (07051822) 0.00336 (05102308)
3756656.7 | 0.00246 (07051822) 0.00237 (05102308)
3756656.7 | 0.00247 (07051822) 0.00258 (05102308)
3756656.7 | 0.00247 (07051822) 0.00258 (05102308)
3756796 | 0.00278 (07051822) 0.00258 (05102308)
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0.00420 (OD102308)
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0.00383 (OD102308)
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                                                                                                                                                                                                                                                                                                                   PAGE 38
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       FLAT
                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                            *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                                                                          VOL1 ,
                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                   ** CONC OF NOX IN PPM
                                            X-COORD (METERS)
372894.48 372924.48 372954.48 372984.48 373014.48
                                                                                                   0.00420 (05082807)
0.00366 (05082807)
0.00307 (05082807)
0.00250 (07070124)
0.00262 (06090306)
                                                                                                                                                                                                                              0.00228 (05082807)
 3758126.7
                                            0.00508 (05082807)
                                                                                                                                                                    0.00321 (05082807)
                                                                                                                                                                                                                                                                                              0.00192 (06090306)
3758126.7
3758096.7
3758066.7
3758036.7
3758036.7
3757976.7
3757946.7
3757916.7
3757886.7
                                                                                                                                                                       0.00321 (05082807)
0.00265 (05082807)
0.00222 (07070124)
0.00248 (06090306)
0.00282 (06090306)
0.00303 (06090306)
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0.00200 (06090306)

0.00236 (06090306)

0.00265 (06090306)

0.00283 (06090306)

0.00291 (06102522)

0.00327 (05082707)
                                            0.00308 (05082807)
0.00468 (05082807)
0.00416 (05082807)
0.00355 (05082807)
                                                                                                                                                                                                                                                                                                      0.00224 (06090306)
0.00225 (06090306)
0.00250 (06090306)
0.00265 (06090306)
0.00272 (06102522)
                                            0.00291 (05082807)
0.00277 (06090306)
                                                                                                          0.00301 (06090306)
                                                                                                                                                                                                                                                                                                      0.00296 (05082707)
                                                                                                                                                                        0.00303 (06090306)
0.00313 (06102522)
0.00362 (05082707)
0.00505 (05082707)
0.00656 (05082707)
0.00789 (05082707)
                                            0.00321 (06090306)
                                                                                                          0.00326 (06090306)
                                                                                                                                                                                                                                                                                                      0.00415 (05082707)
                                           0.00321 (06090306)
0.00351 (06090306)
0.00365 (06102522)
0.00447 (05082707)
0.00616 (05082707)
0.00780 (05082707)
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                                                                                                          0.00337 (06102522)
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0.00557 (05082707)
0.00716 (05082707)
0.00845 (05082707)
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0.00601 (05082707)
0.00733 (05082707)
0.00827 (05082707)
0.00856 (05082707)
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 3757796.7
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 3757766.7
                                            0.00901 (05082707)
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0.00579 (05082707)

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0.00387 (06081407)

0.00369 (07112919)

0.00343 (05071903)

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0.00413 (05091722)
 3757736.7
                                            0.00939 (05082707)
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3757736.7
3757706.7
3757676.7
3757646.7
3757616.7
3757586.7
                                           0.00939 (05082707)
0.00877 (05082707)
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0.00530 (05082707)
0.00499 (07112919)
0.00456 (07112919)
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0.00594 (05082707)
0.00451 (07112919)
0.00456 (07112919)
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0.00462 (06090106)
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0.00482 (06112321)
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0.00431 (06090106)
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0.00406 (07072605)

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0.00518 (06112321)
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0.00578 (06112321)
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0.00474 (07091107)
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 3757166.7
3757136.7
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0.00419 (07062901)
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 3757106.7
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0.00492 (06081607) 0.004
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- VERSION 09292 *** *** Site 14
                                                                                                          0.00481 (06081607)
0.00476 (06081607)
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3757046.7 |
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3756986.7 |
3756956.7 |
*** AERMOD
                                                                                                                                                                                                                                         0.00448 (06081607)
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                            *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                          VOL1
                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                     ** CONC OF NOX
                                                                                                                                                  IN PPM
                                X-COORD (METERS)
372894.48 372924.48 372954.48 372984.48 373014.48
   Y-COORD
3756926.7
3756896.7
3756866.7
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                                                                                                          0.00653 (07090807)
0.00653 (07090807)
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0.00605 (07090807)
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0.00720 (07090807)
0.00714 (07090807)
0.00687 (07090807)
0.00687 (07090807)
0.00685 (07090807)
                                             0.00753 (07090807)
0.00775 (07090807)
3756866.7 | 0.00775 (07090807) 0.00709 (07 3756866.7 | 0.00748 (07090807) 0.00741 (07 3756806.7 | 0.00738 (07090807) 0.00741 (07 3756776.7 | 0.00637 (07090807) 0.00747 (07 3756776.7 | 0.00632 (07090807) 0.00637 (07 3756716.7 | 0.00523 (07090807) 0.00637 (07 3756716.7 | 0.00515 (07090807) 0.00537 (07 3756656.7 | 0.00477 (07090807) 0.00574 (07 3756656.7 | 0.00405 (07090807) 0.00506 (07 *** AERMOD - VERSION 09292 *** Site 14 - NO2
                                                                                                           0.00637 (07090807)
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PAGE 40
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                             *** THE
                                                                                                     1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                          VOL1
                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                    ** CONC OF NOX IN PPM
                                           X-COORD (METERS)
373044.48 373074.48 373104.48 373134.48
                                                                                                                                                                                                                                                                                                     373164.48
3758126.7
3758096.7
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0.00240 (06102522)
0.00253 (06102522)
0.00344 (05082707)
0.00582 (05082707)
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0.00766 (05082707)
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0.00226 (06102522)
0.00238 (06102522)
0.00334 (05082707)
0.00422 (05082707)
0.00538 (05082707)
0.00646 (05082707)
0.00729 (05082707)
0.007767 (05082707)
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0.00287 (05082707)
0.00387 (05082707)
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0.00269 (06102522)
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0.00737 (05082707)
0.00800 (05082707)
0.00803 (05082707)
                                                                                                                                                                                                                                                                                                       0.00697 (05082707)
                                                                                                           0.00788 (05082707)
                                                                                                                                                                                                                                                                                                        0.00620 (05082707)
                                                                                                                                                                                                                                         0.00594 (05082707)
                                                                                                           0.00748 (05082707)
                                                                                                                                                                                                                                                                                                        0.00510 (05082707)
                                            0.00739 (05082707)
0.00739 (05082707)
0.00621 (05082707)
0.00473 (05082707)
                                                                                                           0.00653 (05082707)
0.00521 (05082707)
0.00379 (06081407)
                                                                                                                                                                         0.00576 (05082707)
0.00561 (05082707)
0.00427 (05082707)
0.00373 (06081407)
                                                                                                                                                                                                                                         0.00394 (05082707)
0.00471 (05082707)
0.00360 (06081407)
0.00359 (06081407)
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0.00386 (05082707)
0.00357 (06081407)
0.00339 (06081407)
 3757706.7
                                             0.00390 (06081407)
0.00357 (06081407)
                                                                                                           0.00373 (06081407)
                                                                                                                                                                         0.00348 (06081407)
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                                                                                                                                                                                                                                                                                                        0.00289 (06081407)
                                                                                                                                                                         0.00348 (05081407)

0.00306 (07112919)

0.00271 (05071903)

0.00322 (05071903)

0.00340 (05091722)

0.00341 (05091722)

0.00343 (07072605)
                                                                                                                                                                                                                                        0.00278 (07112919)
0.00271 (05071903)
0.00311 (05071903)
0.00326 (05091722)
0.00322 (06090106)
0.00323 (06061524)
0.00334 (0601524)
0.00334 (06112321)
0.00357 (06112321)
0.00357 (07031508)
0.00447 (07031508)
0.00445 (07031508)
0.00445 (07031508)
 3757676.7
                                                                                                           0.00332 (07112919)
                                                                                                                                                                                                                                         0.00278 (07112919)
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                                                                                                          0.00332 (07112919)
0.00298 (07112919)
0.00331 (05071903)
0.00355 (05071903)
0.00364 (05091722)
0.00363 (07072605)
                                                                                                                                                                                                                                                                                                      0.00250 (07112919)
0.00269 (05071903)
0.00299 (05071903)
0.00311 (05091722)
0.00306 (06090106)
0.00312 (06061524)
 3757646.7
                                             0.00333 (07112919)
3757616.7
3757586.7
3757556.7
3757526.7
                                            0.00338 (05071903)
0.00375 (05071903)
0.00375 (05071903)
0.00388 (05091722)
0.00383 (07072605)
                                                                                                                                                                       0.00343 (07072605)
0.00352 (06061524)
0.00353 (06112321)
0.00376 (06112321)
0.00377 (06112321)
0.00339 (07031508)
0.00466 (07031508)
0.00466 (07031508)
0.00470 (07031508)
0.00330 (07081802)
0.00331 (07081802)
0.00331 (07081802)
0.00316 (07082904)
0.00317 (07091107)
0.00346 (07091107)
0.00436 (07091107)
0.00436 (07091107)
                                           0.00383 (07072605)

0.00396 (05061524)

0.00397 (06112321)

0.00419 (06112321)

0.00368 (06112321)

0.00451 (07031508)

0.00499 (07031508)

0.00471 (07031508)

0.00381 (07031508)
                                                                                                                                                                                                                                                                                                      0.00312 (06061524)
0.00315 (06061524)
0.00317 (06112321)
0.00340 (06112321)
0.00311 (06112321)
0.00350 (07031508)
0.00428 (07031508)
0.00457 (07031508)
0.00427 (07031508)
3757496.7
3757496.7
3757436.7
3757436.7
3757376.7
3757346.7
3757316.7
                                                                                                           0.00373 (06061524)
                                                                                                          0.00373 (0601524)

0.00374 (06112321)

0.00396 (06112321)

0.00352 (06112321)

0.00424 (07031508)

0.00483 (07031508)

0.00472 (07031508)

0.00398 (07031508)
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0.00332 (07031508)
 3757286.7
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0.00350 (07031508)
0.00300 (07081802)
0.00283 (07081201)
0.00279 (07082904)
0.00283 (07082904)
0.00289 (07091107)
 3757256.7
                                             0.00369 (07081802)
                                                                                                           0.00353 (07081802)
 3757226.7
                                             0.00352 (07081201)
                                                                                                           0.00334 (07081201)
                                                                                                                                                                                                                                         0.00313 (07081802)
                                            0.00352 (07081201)
0.00355 (07082904)
0.00348 (07091107)
0.00425 (07091107)
0.00463 (07091107)
0.00455 (07091107)
                                                                                                                                                                                                                                        0.00313 (07081802)
0.00299 (07081201)
0.00300 (07082904)
0.00289 (07082904)
0.00341 (07091107)
0.00403 (07091107)
 3757196.7
3757166.7
3757136.7
                                                                                                           0.00334 (07081201)
0.00335 (07082904)
0.00325 (07082904)
0.00373 (07091107)
0.00433 (07091107)
 3757106.7
 3757076.7
                                                                                                           0.00454 (07091107)
                                                                                                                                                                                                                                                                                                        0.00360 (07091107)
                                                                                                                                                                    0.00440 (07091107)
0.00406 (07091107)
0.00344 (07091107)
0.00300 (06081607)
 3757046.7
                                             0.00405 (07091107)
                                                                                                           0.00431
                                                                                                                                (07091107)
                                                                                                                                                                                                                                         0.00432 (07091107)
                                                                                                                                                                                                                                                                                                        0.00409 (07091107)
 3757016.7 0.00329 (07091107) 0.00374 (07091107) 3756986.7 0.00365 (06081607) 0.00333 (07062901) 3756956.7 0.00411 (06081607) 0.00361 (06081607) *** AERMOD - VERSION 09292 *** *** Site 14 - NO2
                                                                                                                                                                                                                                         0.00423 (07091107)
                                                                                                                                                                                                                                                                                                        0.00423 (07091107
                                                                                                                                                                                                                                        0.00380 (07091107)
0.00316 (07091107)
                                                                                                                                                                                                                                                                                                                    14:41:17
                                                                                                                                                                                                                                                                                                                    PAGE 41
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                           *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                   ** CONC OF NOX IN PPM
                                            X-COORD (METERS)
373044.48 373074.48 373104.48 373104.48
                                           3756926.7 |
3756896.7 |
3756896.7 | 3756886.7 | 3756836.7 | 3756806.7 | 3756776.7 | 3756746.7 | 3756716.7 | 3756686.7 |
                                                                                                                                                                   0.00395 (06081607)
0.00410 (06081607)
0.00401 (06081607)
0.00371 (06081607)
0.00327 (06081607)
0.00344 (07090807)
0.00409 (07090807)
                                                                                                                                                                                                                                        0.00351 (06081607)
0.00387 (06081607)
0.00400 (06081607)
0.00391 (06081607)
0.00363 (06081607)
0.00320 (06081607)
0.00316 (07090807)
0.00378 (07090807)
                                            0.00391 (06081607)
0.00341 (06081607)
0.00341 (06081607)
0.00407 (07090807)
0.00479 (07090807)
                                                                                                                                                                                                                                                                                              0.00391 (U000000
0.00381 (06081607)
0.00354 (06081607)
0.00314 (06081607)
0.00291 (07090807)
                                                                                                           0.00374 (07090807)
                                            0.00479 (07090807)
0.00542 (07090807)
0.00594 (07090807)
0.00630 (07090807)
                                                                                                           0.00442 (07090807)
                                                                                                       0.00505 (07090807)
0.00558 (07090807)
```

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3756656.7 | 0.00649 (07090807) 0.00598 (07
                                                         10/26/10
                                                                                                                                                                 14:41:17
 **MODELOPTS: NonDFAULT CONC
                                                                                       NODRYDPLT NOWETDPLT
                                         *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                              INCLUDING SOURCE(S):
                                                                                VOL1
                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                         CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

0.00918 (07070106) 372200.97 3757196.42 0.00948 (07070106)
0.00979 (07090807) 372746.74 3757147.17 0.00812 (07090807)
0.00601 (05062305) 372894.46 3757118.45 0.00445 (07062901)
0.00899 (06090607)
* ** Site 14 - NO2
       X-COORD (M) Y-COORD (M)
 372149.67 3757202.57
372734.43 3757083.57
372737.26 3757192.31
372371.27 3757725.77
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                 14:41:17
                                                                                                                                                                 PAGE 43
 **MODELOPTs: NonDFAULT CONC
                                                                                        FLAT
NODRYDPLT NOWETDPLT
                                               *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER \,\, 3 YEARS ***
                                                ** CONC OF NOX IN PPM
                                        AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
                                               0.00367 AT ( 372564.48, 3757526.71, 0.00333 AT ( 372594.48, 3757496.71, 0.00323 AT ( 372394.48, 3757406.71, 0.00315 AT ( 372364.48, 3757406.71, 0.00314 AT ( 372594.48, 375756.71, 0.00293 AT ( 372594.48, 375756.71, 0.00287 AT ( 372594.48, 375756.71, 0.00285 AT ( 372344.48, 375736.71, 0.00269 AT ( 372344.48, 375736.71, 0.00269 AT ( 372354.48, 375736.71, 0.00269 AT ( 372354.48, 3757376.71, 0.00269 AT ( 372354.48, 3757436.71,
ALL
            1ST HIGHEST VALUE IS
                                                                                                       10.00,
10.00,
10.00,
10.00,
10.00,
                                                                                                                     10.00,
10.00,
10.00,
10.00,
            2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
                                                                                                                                   0.00)
                                                                                                                                                  UCART1
UCART1
                                                                                                                                   0.00)
0.00)
0.00)
0.00)
          3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
7TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS
                                                                                                                                             GC
GC
GC
GC
GC
                                                                                                                                                  UCART1
UCART1
UCART1
UCART1
                                                                                                                      10.00,
                                                                                                                                                  UCART1
                                                                                                         10.00.
                                                                                                                                    0.00)
                                                                                                                                                  UCART1
                                                                                                         10.00.
                                                                                                                                    0.00)
 *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
                                               *** Site 14 - NO2
 *** AERMOD - VERSION 09292 ***
                                                                                                                                                                 10/26/10
 **MODELOPTs: NonDFAULT CONC
                                                                                        NODRYDPLT NOWETDPLT
                                                                *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
                                                                                                                                                        OF TYPE GRID-ID
GROUP ID
                                            AVERAGE CONC
                                                            IC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)
ALL HIGH 1ST HIGH VALUE IS 0.02367 ON 07090807: AT ( 372534.48, 3757376.71, 10.00, 10.00, 0.00) GC UCARTI
 **MODELOPTS: NonDFAULT CONC
                                                                                        NODRYDPLT NOWETDPLT
 *** Message Summary : AERMOD Model Execution ***
   ----- Summary of Total Messages -----
 A Total of
                            0 Fatal Error Message(s)
                         0 Warning Message(s)
152 Informational Message(s)
 A Total of
 A Total of 26280 Hours Were Processed
 A Total of 15 Calm Hours Identified
                          137 Missing Hours Identified ( 0.52 Percent)
     ******* FATAL ERROR MESSAGES *******

*** NONE ***
     ******* WARNING MESSAGES *******

*** NONE ***
     .....
      *** AERMOD Finishes Successfully **
```

```
**

** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 14\PM10.ADI
 ***********
 ***********
 ** AERMOD Control Pathway

**
**
CO STARTING
TITLEONE Site 14 - PM10
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24
      URBANOPT 9862049 Los_Angeles_County
POLLUTID PM10.
RUNORNOT RUN
CO FINISHED
 **

** AERMOD Source Pathway

**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1 VOLUME 372476.980 3757462.370 0.0
LOCATION VOLL VOLUME 372476.980 3/3/462.30 0.0

** DESCRSRC Equipment
LOCATION AREA1 AREA 372375.088 3757366.846 0.0

** DESCRSRC Dust

** Source Parameters **
SRCPARAM VOLL 0.0404 4.100 46.783 1.163
SRCPARAM AREA1 0.0004785 0.000 201.168 201.168 0.000
URBANSRC AREA1-VOL1
SRCGROUP ALL
 SO FINISHED
 ...........
RE STARTING
RE STARTING
GRIDCART UCART1 STA
XYINC 371695.22 50 30.00 3756650.16 50 30.00
GRIDCART UCART1 END
** DESCREC ** **
DISCCART 372149.67 3757126.42
DISCCART 372234.43 3757083.57
DISCCART 372734.43 3757083.57
DISCCART 372746.74 3757147.17
DISCCART 372786.74 3757147.17
DISCCART 372894.46 3757128.45
DISCCART 372894.67 3757125.77
RE FINISHED
RE FINISHED
 *********
 ** AERMOD Meteorology Pathway
ME STARTING
     STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
 ME FINISHED
 ** AERMOD Output Pathway
OU STARTING
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24HIGALL.PLT
OU FINISHED
  *** SETUP Finishes Successfully ***
  10/26/10
14:48:25
PAGE 1
  **MODELOPTs: NonDFAULT CONC
                                                                                                             FLAT
                                                                                                             NODRYDPLT NOWETDPLT
                                                                               * MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
          DEPOSITION LOGIC --
  **NO GAS DEPOSITION Data Provided.

**NO FARTICLE DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION DATA Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT

**Model Uses NO WET DEPLETION. WETDPLT
  **Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
```

```
**Model Allows User-Specified Options:
                       Allows User-Specified Uptions:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR
**This Run Includes: 2 Source(s); 1 Source Group(s); and 2507 Receptor(s)
**The Model Assumes A Pollutant Type of: PM10.
**Model Set To Continue RUNning After the Setup Testing.
                          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                                                Rot. Angle = 0.0
or = 0.10000E+07
**Approximate Storage Requirements of Model =
                                                                                                                                              3.8 MB of RAM.
                                                                                                                                                                                                                                                                                                                                                               14:48:25
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                                                                 *** VOLUME SOURCE DATA ***
                                                                                                                                                        BASE RELEASE INIT. INIT. URBAN EMISSION RATE ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
                                      NUMBER EMISSION RATE
                                        NUMBER EMISSION FAIL PART (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
           SOURCE
         14:48:25
                                                                                                                                                                                                                                                                                                                                                               PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                                                               *** AREA SOURCE DATA ***
                                        NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                      NUMBER EMISSION RATE COORD (SW CORNER) BASE
                                                                                                                                                                                                                                                                                                           INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
                                                                                                                                                                                                                                                                             ORIENT.
                                                                                                                                                                                                                                                                             OF AREA
(DEG.)
        SOURCE
0.00 YES
                                                                                                                                                                                            0.00 201.17 201.17
                                                                                                    *** Site 14 - PM10 ***
                                                                                                                                                                                                                                                                                                                                                             10/26/10
                                                                                                                                                                                                                                                                                                                                                               14:48:25
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                                          *** SOURCE IDS DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                                      SOURCE IDS
ALL VOL1 , AREA1 ,
*** AERMOD - VERSION 09292 ***
                                                                                                   *** Site 14 - PM10
                                                                                                                                                                                                                                                                                                                                                               10/26/10
                                                                                                                                                                                                                                                                                                                                                               14:48:25
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                             FLAT
NODRYDPLT NOWETDPLT
                                                                                                                   *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                       *** X-COORDINATES OF GRID ***
(METERS)
                                               371725.2, 371755.2, 371785.2, 371815.2, 371845.2, 371845.2, 371905.2, 371935.2, 371965.2, 372055.2, 372055.2, 372085.2, 372115.2, 372145.2, 372175.2, 372205.2, 372235.2, 372265.2, 372352.2, 372352.2, 372415.2, 372445.2, 372475.2, 372505.2, 372535.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655.2, 372655
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                  371995.2,
372295.2,
372595.2,
372895.2,
                                                                                                                         *** Y-COORDINATES OF GRID ***
                                                                                                                                                     (METERS)
              3756650.2, 3756680.2, 3756710.2, 3756740.2, 3756740.2, 3756800.2, 3756830.2, 3756860.2, 3756890.2, 3756920.2, 3756950.2, 3756980.2, 3757100.2, 3757010.2, 3757100.2, 3757130.2, 3757160.2, 3757190.2, 375720.2, 3757280.2, 3757280.2, 3757280.2, 3757280.2, 3757280.2, 3757340.2, 3757370.2, 3757400.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 375740.2, 
10/26/10
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                             FLAT
NODRYDPLT NOWETDPLT
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS) (372149.7, 3757202.6, 10.0, 10.0, (372734.4, 3757083.6, 10.0, 10.0, (372767.3, 3757192.3, 10.0, 10.0, (372371.3, 3757725.8, 10.0, 10.0, ABEMOD - VERSION 09292 *** *** Site 14 - PM10 *** (372201.0, 3757196.4, (372746.7, 3757147.2, (372894.5, 3757118.4, 0.0); 0.0); 0.0); 0.0); 14:48:25 PAGE **MODELOPTS: NonDEAULT CONC NODRYDDIA NOWETDDIA * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED * LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL SOURCE - RECEPTOR LOCATION -ID XR (METERS) YR (METERS) 372445.2 372475.2 3757370.2 -8.36 VOL1 VOL1 372505.2 3757370.2 -4.15 -4.15 -12.92 -30.74 -38.35 -32.26 -15.37 -3.33 -30.93 372505.2 372415.2 372445.2 372475.2 372505.2 372535.2 372385.2 VOT-1 3757400.2 VOL1 VOL1 VOL1 VOL1 3757400.2 3757400.2 3757400.2 3757400.2 VOL1 3757430.2 VOL1 372415.2 372445.2 3757430.2 VOL1 3757430.2 VOL1 VOL1 VOL1 372445.2 372475.2 372505.2 372535.2 3757430.2 3757430.2 3757430.2 3757430.2 -68.33 -57.75 -34.03 VOL1 372565.2 -6.65 -8.80 VOL1 372385.2 3757460.2 VOL1 372415.2 372445.2 3757460.2 -38.78 VOL1 3757460.2 -68.75 VOL1 VOL1 VOL1 372445.2 372475.2 372505.2 372535.2 372565.2 3757460.2 3757460.2 3757460.2 3757460.2 -97.76 -72.26 -42.30 -12.32 VOL1 VOL1 372385.2 3757490.2 -4.71 372385.2 372415.2 372445.2 372475.2 372505.2 372535.2 3757490.2 3757490.2 3757490.2 3757490.2 3757490.2 3757490.2 -32.86 VOT-1 -32.86 -58.38 -72.74 -60.96 -36.05 -8.07 VOI.1 VOLI VOLI VOLI VOLI VOL1 372415.2 3757520.2 -16.00 372415.2 372445.2 372475.2 372505.2 372535.2 372445.2 -16.00 -34.64 -42.77 -36.26 -18.54 -7.23 VOT-1 3757520.2 3757520.2 3757520.2 3757520.2 3757520.2 3757550.2 3757550.2 VOL1 VOL1 VOL1 VOL1 -12.78 VOL1 VOL1 3/2...
* *** Site 14 - PM10 372505.2 3757550.2 -8.36 *** AERMOD - VERSION 09292 *** 10/26/10 14:48:25 NODRYDPLT NOWETDPLT *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO) NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE. *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** 1.54, 3.09, 5.14, 8.23, 10.80, *** AERMOD - VERSION 09292 *** *** Site 14 - PM10 14:48:25 PAGE **MODELOPTS: NonDEAULT CONC NODRYDPLT NOWETDPLT *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA *** Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE
Surface station no: 0 Upper air station no: 3190
Name: UNKNOWN
Year: 2005 Upper air station no.: 3190 Name: UNKNOWN Year: 2005 Year: 2005 Year: First 24 hours of scalar data
YR MO DY JDY HR HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD

05 01 01 1 01 -3.3 0.062 -9.000 -9.000 -999. 35. 6.5 0.26 1.00 1.00 1.10 52.
05 01 01 1 02 -3.9 0.073 -9.000 -9.000 -999. 45. 8.9 0.26 1.00 1.00 1.30 51.
05 01 01 1 03 -2.7 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 48.
05 01 01 1 04 -2.3 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 48.
05 01 01 1 05 -2.8 0.062 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 62. HT REF TA 282.0 281.4 280.9

1.00 1.00 1.00 1.00

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0.30

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284.9

7.5 0.26 8.2 0.26 7.0 0.26 8.8 0.26 -44.6 0.26 -19.9 0.26

-17.3 0.26 -10.8 0.26

115. 344.

365.

376.

1 05 -2.8 0.062 -9.000 -9.000 -999. 1 06 -5.3 0.078 -9.000 -9.000 -999. 1 07 -3.9 0.067 -9.000 -9.000 -999. 1 08 -4.9 0.078 -9.000 -9.000 -999. 1 09 45.2 0.282 0.524 0.005 115. 1 10 114.4 0.293 1.397 0.005 862.

139.9 0.299 1.673 0.010 1212. 15.0 0.122 0.797 0.010 1215.

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17.9 0.256 0.847 0.009 1225. 298.
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 First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV 05 01 01 01 01 5.5 0 -999. 0 99.00 282.6 99.0 -99.00 -99.00 05 01 01 01 01 9.1 1 52. 1.10 -999.0 99.0 99.0 -99.00 -99.00
  10/26/10
14:48:25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAGE 10
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                             NODRYDPLT NOWETDPLT
                                                                                                                         *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                ** CONC OF PM10. IN MICROGRAMS/M**3
                                                    X-COORD (METERS)
371695.22 371725.22 371755.22 371785.22 371815.22
      Y-COORD |
(METERS) |
                                                                                                                                                                                                                                                           371755.22 371785.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 37185.22 3
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3757880.2
3757850.2
37577820.2
3757790.2
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35. 33969 (07020624)

37. 89356 (07020624)

37. 89356 (07020624)

36. 12345 (07020624)

36. 63148 (07030624)

37. 20483 (07030624)

40. 78741 (05122624)

40. 78741 (05122624)

41. 20162 (05122624)

51. 20162 (05122624)

52. 85630 (05122624)

49. 72459 (07112524)

53. 87847 (05122624)

53. 87847 (05102424)

64. 03133 (05012424)

64. 03133 (05012424)
   3757760.2
   3757730.2
  3757730.2
3757700.2
3757670.2
3757640.2
3757610.2
3757580.2
    3757550.2
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    3757490.2
    3757370.2
                                                                   55.39430m(05012424)
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64.03133m(05012424)
65.21827m(05012424)
62.98381 (06012524)
62.90595 (06012524)
62.30206 (06012524)
55.80532 (06111824)
55.80063 (05120724)
55.81130 (05120724)
55.81240 (05121124)
55.85204 (06122024)
54.15641 (06111624)
55.959092 (06111624)
55.31528 (07123024)
55.53542 (07123024)
51tc 14 - PM10
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68.12739m(05012424)
68.31484m(05012424)
67.39131 (06012524)
68.14204 (06012524)
64.18718 (06012524)
59.12617c(06111824)
59.64442 (05120724)
58.76668 (05120124)
58.76668 (05120124)
57.60519 (05100124)
58.37400 (06111624)
58.37400 (06111624)
58.688084 (07123024)
53.88214 (05110524)
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71.37512m(05012424)
71.37512m(05012424)
71.87512m(05012424)
71.27026 (06012524)
65.92700 (06012524)
63.08508 (05120724)
63.49734 (05121124)
63.72060 (05121124)
61.83060 (05121124)
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74.38757m(05012424)
   3757340.2
                                                                   60.09162m(05012424)
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62.10758m(05012424)
60.40139m(05012424)
61.58832 (06012524)
60.24206 (06012524)
55.50099 (06012524)
    3757310.2
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76.43132 (06012524)
74.28830 (06012524)
67.60004 (06012524)
67.84111 (05120724)
68.33471 (05121124)
67.66729 (05121124)
65.07460 (05110424)
65.64475 (07123024)
65.44429 (07123024)
65.44429 (07123024)
62.47311 (05111224)
65.1417 (05111224)
10/26/10
  3757280.2
3757250.2
3757220.2
3757190.2
                                                                   52.06060c(06111824)
    3757160.2
 3757160.2 | 52.060600(06111824) | 55.80063 (051 3757130.2 | 52.87521 (05120724) | 56.28042 (051 3757100.2 | 52.97006 (05121124) | 55.81130 (051 3757070.2 | 52.97635 (06122024) | 55.58204 (061 3757010.2 | 52.82464 (0611162024) | 55.98204 (061 3757010.2 | 52.82464 (06111624) | 55.99092 (061 3756980.2 | 53.26422 (06111624) | 55.31528 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (077 3756950.2 | 51.87838 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (07123024) | 52.53542 (0712
                                                                                                                                                                                                                                                                                                                                                                              61.83060 (05121124)
60.40210 (07123024)
62.28395 (07123024)
60.97686 (07123024)
57.11164 (05110524)
60.04061 (05111224)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10/26/10
14:48:25
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                                                        VOL1 , AREA1 ,
                                                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                         X-COORD (METERS)
       Y-COORD
                                                                        371695.22 371725.22 371755.22 371785.22 371815.22
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                                          *** THE 1ST HIGHEST 24-HR A INCLUDING SOURCE(S):
                                                                                                                                                                   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                      VOL1 , AREA1
                                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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Site #14 – Localized PM_{10} Concentrations

		** CONC OF PM10. I	N MICROGRAMS/M**3	**	
Y-COORD (METERS)	371845.22	371875.22	X-COORD (METERS) 371905.22	371935.22	371965.22
3758120.2 3758090.2	23.35562 (07071924)	27.21948 (06062824)	34.84569 (06062824) 32.91472 (06062824)	37.15581 (06062824)	39.15987 (06062824)
3758060.2 3758030.2	22.82513 (06071424) 23.80433 (06071424)	25.00023m(05010924) 24.27779 (06071424)	29.42055 (06062824) 26.88557m(05010924)	35.39541 (06062824) 31.86748 (06062824)	39.66028 (06062824) 38.12753 (06062824)
3758000.2 3757970.2	24.32022 (07021124) 23.98924 (07021124)	25.15717 (06071424) 25.55544 (07021124)	25.85499 (06071424) 26.60831 (06071424)	29.01104m(05010924) 27.69157m(05010924)	34.59881 (06062824) 31.42280m(05010924)
3757940.2 3757910.2	28.71027 (06110124) 35.02828 (06110124)	24.84638 (07021124) 32.54469 (06110124)	26.88557m(05010924) 25.85499 (06071424) 26.60831 (06071424) 26.84606 (07021124) 28.72362 (06110124) 36.51936 (06110124)	28.16582 (06071424) 28.19030 (07021124)	29.95736m(05010924) 29.84279 (06071424)
3757880.2 3757850.2	3/.8811/ (06110124)	40.28164 (06110124)	41.2/694 (U611U124)	40.53003 (06110124)	3/.8/158 (U611U124)
3757820.2 3757790.2	37 04070 (07001324)	38 63517 (07001324)	41.87641 (06110124) 38.67462 (06110124)	43 05020 (06110124)	46 36342 (06110124)
3757760.2	38.13341 (07091324) 44.15200 (07020624)	40.47217 (07091324) 44.71092 (07020624)	42.20597 (07091324) 44.65192 (07020624) 52.80895 (07020624) 55.76851 (07020624) 53.32358 (07020624)	43.16334 (07091324) 45.20193 (07091324)	43.82840 (06110124) 47.38566 (07091324)
3757730.2 3757700.2 3757670.2	48.39853 (07020624) 48.05106 (07020624)	50.85070 (07020624) 51.86016 (07020624)	52.80895 (07020624) 55.76851 (07020624)	54.05851 (07020624) 59.51563 (07020624)	54.45737 (07020624) 62.80387 (07020624)
3757640.2	44.84205 (07020624) 45.09122 (07030624)	48.80992 (07020624) 46.90504 (07030624)	53.32358 (07020624) 48.95544 (07020624)	58.31179 (07020624) 53.85590 (07020624)	63.59796 (07020624) 59.48546 (07020624)
3757580.2	47.46680 (06041124) 56.99110 (05122624)	50.32324 (06041124)	53.34646 (06041124)	56.52704 (06041124)	59.85255 (06041124)
3757520.2	64.90176 (05122624)	69.08575 (05122624)	73.61280 (05122624)	78.52869 (05122624)	83.88816 (05122624)
3757460.2	64.90176 (05122624) 68.08083 (05122624) 65.45082 (05122624) 68.36653m(05012424) 75.63027m(05012424)	69.78807 (05122624)	74.56666 (05122624)	79.84606 (05122624)	87.23302m(05012424)
3757400.2	75.63027m(05012424)	82.46805m(05012424)	89.91751m(05012424) 92.35457m(05012424)	97.99168m(05012424)	100.93995M(05012424) 106.70712m(05012424)
3757370.2 3757340.2	81.11321m(05012424)	85.62087m(05012424)	90.23473m(05012424)	95.01210m(05012424)	100.70199 (06012524)
3757310.2 3757280.2	81.00189 (06012524)	85.61909 (06012524)	90.98437 (06012524) 90.37695 (06012524)	95.42572 (06012524)	100.95202 (06012524)
3757250.2 3757220.2	77.24979 (06012524) 71.88035 (05120724)	80.25402 (06012524) 77.87272 (05120724)	83.43693 (06012524) 83.83259 (05120724)	90.25918 (05120724) 91.45974 (05121124)	97.97300 (05120724) 100.79785 (05121124)
3757190.2 3757160.2	71.8035 (05120724) 72.54859 (05120724) 73.43371 (05121124) 71.71600 (05121124) 68.77013 (07123024) 69.97803 (07123024) 67.33755 (07123024)	78.64949 (05121124) 78.73098 (05121124)	85.52570 (05121124) 84.08866 (05121124)	92.66559 (05121124) 89.27680 (05121124)	99.78697 (05121124) 93.97874 (05121124)
3757130.2 3757100.2	71.71600 (05121124) 68.77013 (07123024)	75.75550 (05121124) 74.46777 (07123024)	79.62248 (05121124) 78.97969 (07123024)	84.99565 (07123024) 81.91371 (07123024)	89.70066 (07123024) 89.16191 (05110524)
3757070.2	69.97803 (07123024) 67.33755 (07123024)	73.05410 (07123024)	75.06561 (05110524) 76.55013 (05110524)	82.62147 (05110524) 82.43324 (05111224)	89.12366 (05110524) 87.24835 (05120824)
3757010.2 3756980.2	65.91357 (05110524) 68.49675 (05111224)	72.09114 (05111224) 72.60358 (05111224)	77.36716 (05111224) 75.07894 (05120824)	80.85759 (05120824) 77.82807 (05120824)	84.56731 (05120824) 79.94663 (05100924)
3756950.2 *** AERMOD	65.91357 (05110524) 68.49675 (05111224) 68.13973 (05111224) - VERSION 09292 *** ***	69.84647 (05120824)	71.84793 (05120824)	73.84608 (05100924)	76.43909 (05100924)
ABIGIOD	***	Sice 14 PM10		***	14:48:25 PAGE 13
**MODELOPTS	: NonDFAULT CONC		FLAT NODRYDPLT NOWETDPLT		PAGE 13
	*** THE	1ST HIGHEST 24-HR AVE	RAGE CONCENTRATION VALUE	ES FOR SOURCE GROUP: ALI	***
	INCI	LUDING SOURCE(S): V	OL1 , AREA1 ,		
	***	NETWORK ID: UCART1 ;	NETWORK TYPE: GRIDCART	***	
v goopp		** CONC OF PM10. I	N MICROGRAMS/M**3	**	
	371845.22	** CONC OF PM10. I	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	** 371935.22	371965.22
(METERS)	371845.22 	** CONC OF PM10. I 371875.22 66.51947 (05120824)	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	** 371935.22 70.88097 (05100924)	70.69897 (05100924)
(METERS) 	371845.22 	** CONC OF PM10. I 371875.22 66.51947 (05120824)	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	** 371935.22 70.88097 (05100924)	70.69897 (05100924)
(METERS) 3756920.2 3756890.2 3756860.2 3756830.2	371845.22 	** CONC OF PMIO. I 371875.22 66.51947 (05120824) 63.72206 (05100924) 61.61269 (05100924) 57.87514 (05100924)	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924)	70.69897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 60.30742 (05122924)
3756920.2 3756890.2 3756860.2 3756830.2 3756800.2 3756770.2	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 57.71883 (05100924) 54.45876 (05100924) 49.92334 (05100924)	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22 68.47406 (05100924) 65.97200 (05100924) 56.97493 (05120924) 55.54960 (05120924) 53.03506 (05122924)	771935.22 70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 56.53111 (05122924) 52.58302 (05122924)	70.69897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 60.30742 (05122924) 55.61267 (05122924) 50.31762 (05122924)
3756920.2 3756890.2 3756860.2 3756830.2 3756800.2 3756770.2	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 57.71883 (05100924) 54.45876 (05100924) 49.92334 (05100924)	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22 68.47406 (05100924) 65.97200 (05100924) 56.97493 (05120924) 55.54960 (05120924) 53.03506 (05122924)	771935.22 70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 56.53111 (05122924) 52.58302 (05122924)	70.69897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 60.30742 (05122924) 55.61267 (05122924) 50.31762 (05122924)
3756920.2 3756890.2 3756860.2 3756830.2 3756800.2 3756770.2	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 57.71883 (05100924) 54.45876 (05100924) 49.92334 (05100924)	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22 68.47406 (05100924) 65.97200 (05100924) 56.97493 (05120924) 55.54960 (05120924) 53.03506 (05122924)	771935.22 70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 56.53111 (05122924) 52.58302 (05122924)	70.69897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 60.30742 (05122924) 55.61267 (05122924) 50.31762 (05122924)
3756920.2 3756890.2 3756860.2 3756830.2 3756800.2 3756770.2	371845.22 	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22 68.47406 (05100924) 65.97200 (05100924) 56.97493 (05120924) 55.54960 (05120924) 53.03506 (05122924)	771935.22 70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 56.53111 (05122924) 52.58302 (05122924)	70.69897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 60.30742 (05122924) 55.61267 (05122924) 50.31762 (05122924) 34.74534 (05122924) 34.36958 (06030424) 33.03454 (05112824) 10/26/10 14:48:25
(METERS)	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 57.71883 (05100924) 54.45876 (05100924) 49.92334 (05100924)	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	771935.22 70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 56.53111 (05122924) 52.58302 (05122924)	70.69897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 60.30742 (05122924) 55.61267 (05122924) 50.31762 (05122924)
(METERS)	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 57.71883 (05100924) 49.92334 (05100924) 48.54786 (05129924) 46.82505 (05122924) 44.43756 (05122924) 41.57693 (05122924) - VERSION 09292 *** *** *** *** *** *** ***	** CONC OF PM10. I 371875.22 66.51947 (05120824) 63.72206 (05100924) 61.61269 (05100924) 57.87514 (05100924) 52.99457 (05122924) 51.88280 (05122924) 49.80467 (05122924) 40.61070 (05122924) 40.01070 (05122924) 8 Site 14 - PM10	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22 68.47406 (05100924) 65.97200 (05100924) 61.67439 (05120924) 55.54960 (05122924) 53.03506 (05122924) 49.70736 (05122924) 41.62355 (05122924) 41.62355 (05122924) 37.27950 (05122924)	70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 55.53111 (05122924) 52.58302 (05122924) 48.05326 (05122924) 43.21036 (05122924) 43.27949 (05122924) 33.54640 (06030424)	70.6897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 65.61267 (05122924) 55.61267 (05122924) 50.31762 (05122924) 39.15895 (05122924) 34.36958 (065022924) 33.03454 (051122924) 4 10/26/10 14:48:25 PAGE 14
(METERS)	371845.22 65.10131 (05120824) 61.75906 (05120824) 55.49392 (05100924) 57.71883 (05100924) 49.92334 (05100924) 48.54786 (05120924) 46.82505 (05122924) 44.43756 (05122924) - VERSION 09292 *** *** *** *** *** *** *** *	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	70.88097 (05100924) 65.92328 (05100924) 65.92328 (05100924) 56.53111 (05122924) 55.58523 (05122924) 55.58302 (05122924) 48.05326 (05122924) 43.21036 (05122924) 43.21036 (05122924) 33.54640 (06030424)	70.6897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 65.61267 (05122924) 55.61267 (05122924) 50.31762 (05122924) 39.15895 (05122924) 34.36958 (065022924) 33.03454 (051122924) 4 10/26/10 14:48:25 PAGE 14
(METERS)	371845.22 65.10131 (05120824) 61.75906 (05120824) 55.49392 (05100924) 57.71883 (05100924) 49.92334 (05100924) 48.54786 (05120924) 46.82505 (05122924) 44.43756 (05122924) - VERSION 09292 *** *** *** *** *** *** *** *	** CONC OF PM10. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	70.88097 (05100924) 65.92328 (05100924) 65.92328 (05100924) 56.53111 (05122924) 55.58523 (05122924) 55.58302 (05122924) 48.05326 (05122924) 43.21036 (05122924) 43.21036 (05122924) 33.54640 (06030424)	70.6897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 65.61267 (05122924) 55.61267 (05122924) 50.31762 (05122924) 39.15895 (05122924) 34.36958 (065022924) 33.03454 (051122924) 4 10/26/10 14:48:25 PAGE 14
(METERS)	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 57.71883 (05100924) 49.92334 (05100924) 48.54786 (0512924) 46.82505 (05122924) 41.57693 (05122924) - VERSION 09292 *** *** *** *** *** *** *** *	** CONC OF PM10. I 371875.22 66.51947 (05120824) 63.72206 (05100924) 61.61269 (05100924) 57.87514 (05120924) 51.88280 (05129244) 49.80467 (05122924) 44.919192 (05122924) 43.66452 (05122924) 40.01070 (05122924) 7 site 14 - PM10 1ST HIGHEST 24-HR AVE LUDING SOURCE(S): V NETWORK ID: UCART1 ; ** CONC OF PM10. I	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	70.88097 (05100924) 65.92328 (05100924) 65.92328 (05100924) 56.53111 (05122924) 55.58523 (05122924) 55.58302 (05122924) 48.05326 (05122924) 43.21036 (05122924) 43.21036 (05122924) 33.54640 (06030424)	70.6897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 65.61267 (05122924) 55.61267 (05122924) 50.31762 (05122924) 39.15895 (05122924) 34.36958 (065022924) 33.03454 (051122924) 4 10/26/10 14:48:25 PAGE 14
(METERS) 3756890.2 3756890.2 3756890.2 3756890.2 3756800.2 375670.2 3756710.2 3756710.2 3756710.2 3756650.2 *** AERMOD	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 54.45876 (05100924) 49.92334 (05100924) 48.54786 (05122924) 46.82505 (05122924) 44.43756 (05122924) - VERSION 09292 *** *** *** *** *** *** ***	** CONC OF PM10. I 371875.22 66.51947 (05120824) 63.72206 (05100924) 61.61269 (05100924) 57.87514 (05100924) 52.99457 (05122924) 43.80467 (05122924) 44.980467 (05122924) 43.60452 (05122924) 40.01070 (05122924) * Site 14 - PM10 1ST HIGHEST 24-HR AVE LUDING SOURCE(S): V * NETWORK ID: UCART1 ; ** CONC OF PM10. I 372025.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	70.88097 (05100924) 65.92328 (05100924) 61.41212 (05122924) 59.58523 (05122924) 56.53111 (05122924) 52.58302 (05122924) 48.05326 (05122924) 43.21036 (05122924) 33.54640 (06030424) **** ES FOR SOURCE GROUP: ALI	70.6897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 65.61267 (05122924) 55.61267 (05122924) 50.31762 (05122924) 39.15895 (05122924) 33.03454 (05122924) 33.03454 (05122924) 4 14:48:25 PAGE 14
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(METERS)	371845.22 65.10131 (05120824) 61.75906 (05120824) 59.49392 (05100924) 54.45876 (05100924) 44.54786 (05102924) 44.54786 (05122924) 44.43756 (05122924) 44.4756 (05122924) 41.57693 (05122924) 42.57693 (05122924) 43.57693 (05122924) 44.43756 (05122924) 44.43756 (05122924) 44.57693 (05122924) 44.57693 (05122924) 44.57693 (05122924) 41.57693 (05122924) 42.5763 (05122924) 43.57693 (05122924) 43.41640 (05062824) 43.41656m (05010924) 43.765815 (06062824) 43.765815 (06062824) 43.765815 (06062824) 33.47074 (05110124) 42.82331 (06110124) 48.30342 (06110124) 48.30342 (06110124) 48.30342 (06110124) 48.30342 (06110124) 55.34566 (07020624) 65.3431 (07020624) 66.34313 (07020624) 66.92253 (07020624) 66.54899 (07020624)	** CONC OF PMIO. I 371875.22	N MICROGRAMS/M**3 X-COORD (METERS) 371905.22	371935.22	70.6897 (05100924) 66.37073 (05122924) 64.02713 (05122924) 65.61267 (05122924) 55.61267 (05122924) 55.61267 (05122924) 39.15895 (05122924) 39.15895 (05122924) 33.03454 (051122924) 33.03454 (051122924) 33.03454 (051122924) 372115.22 27.34231 (07030924) 27.86522 (07030924) 29.33454 (05101024) 34.78971 (05082524) 40.58527 (05082524) 40.58527 (05082524) 50.554510 (05010924) 50.554510 (05010924) 51.1567 (06062824) 50.554510 (05010924) 54.96766 (07080524) 55.95810 (05010924) 56.9769 (07080524) 57.1567 (06062824) 50.554510 (05010924) 49.69766 (07080524) 49.69766 (07080524) 49.69766 (07080524) 49.69769 (07080524) 49.69769 (07080524) 49.69769 (07080524) 49.87385 (07020624) 49.87385 (07020624) 49.87385 (07020624) 49.87385 (07020624) 49.91248 (07020624) 49.91248 (07020624)

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3757430.2 |
3757400.2 |
                                                                        111.59339m(05012424)
116.10817m(05012424)
                                                                                                                                                                                          123.39150m(05012424)
126.28544m(05012424)
                                                                                                                                                                                                                                                                                                           136.39443m(05012424)
137.44607m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                                               150.75138m(05012424)
149.98485m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                166.74087m(05012424)
164.58640m(05012424)
375740.2 | 116.10917m(05012424) | 126.28544m(05012424) | 3757370.2 | 119.96470 (05012524) | 120.99253m(05012424) | 3757310.2 | 119.96470 (05012524) | 120.99253m(05012424) | 3757310.2 | 109.96470 (05012524) | 121.96614 (05012524) | 3757250.2 | 107.63299 (05121124) | 120.39782 (05121124) | 3757250.2 | 109.64362 (05121124) | 120.09852 (05121124) | 3757190.2 | 106.45362 (05121124) | 120.09852 (05121124) | 3757190.2 | 98.22542 (0510524) | 103.94703 (051521124) | 3757190.2 | 99.81840 (07123024) | 103.94703 (05110524) | 3757100.2 | 99.31322 (05110524) | 106.44113 (05110524) | 3757100.2 | 99.31322 (0510524) | 106.44113 (05110524) | 3757100.2 | 99.31322 (05120824) | 109.34567 (05120824) | 3757070.2 | 94.33226 (05120824) | 109.34567 (05120824) | 3757070.2 | 92.18475 (05120824) | 94.92712 (05100924) | 3757010.2 | 86.91567 (05100924) | 90.04670 (05100924) | 3755090.2 | 82.77481 (05100924) | 90.04670 (05100924) | 3756950.2 | 82.77481 (05100924) | 82.25217 (05100924) | *** AERMOD - VERSION 09292 *** Site 14 - PM10
                                                                                                                                                                                                                                                                                                    137.44607m(05012424)
130.01937m(05012424)
132.20454 (06012524)
132.19254 (06012524)
132.19254 (06012524)
132.19254 (06012524)
133.63723 (05121124)
133.63723 (05121124)
136.12445 (05121124)
136.124476 (05110524)
137.72243 (05120824)
138.45088 (051020824)
149.45088 (05100924)
149.45086 (05100924)
159.16930 (05122924)
159.16930 (05122924)
159.16930 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                             149, 98485m(05012424)
140.64112m(05012424)
145.045188 (06012524)
143.41795 (06012524)
145.94230 (05121124)
146.08358 (05121124)
146.08572 (05121124)
147.08120 (05121124)
148.17577 (05110524)
127.03153 (05120124)
122.10323 (05120824)
115.92923 (05120824)
115.92923 (05120824)
197.44843 (05100924)
97.44843 (05100924)
97.44843 (05100924)
98.08101 (05122924)
86.72925 (05102924)
78.37973 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 153.55610m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               153.55610m(05012424)
162.13790 (06012524)
155.69073 (05121124)
164.17259 (05121124)
157.70368 (05121124)
142.99815 (06123024)
141.66074 (05110524)
135.35098 (05120824)
129.59625 (05120824)
119.76746 (05100924)
107.09290 (05122924)
102.03462 (05122924)
93.87731 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93.87731 (05122924)
83.63976 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72.38851 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10/26/10
14:48:25
PAGE 15
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                 FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                          *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                    ** CONC OF PM10. IN MICROGRAMS/M**3
     Y-COORD | X-COORD (METERS) (METERS) | 371995.22 372025.22 372055.22 372085.22 372115.22
| 371995.22 | 71.92283 (05122924) 74.30105 (05122924) 73.41057 (05122924) 68.91436 (05122924) 61.04684 (05122924) 3756690.2 | 68.91768 (05122924) 68.74203 (05122924) 65.46304 (05122924) 59.11843 (05122924) 52.25118 (05011824) 375680.2 | 64.37486 (05122924) 62.07542 (05122924) 57.03688 (05122924) 49.61255 (05122924) 50.69103 (06120424) 375680.2 | 58.78397 (05122924) 44.861676 105122924) 48.66761 05122924) 40.05122924) 57.03688 (05122924) 40.07502 (071020424) 50.17213 (06120424) 375680.2 | 52.59291 (05122924) 47.51496 (05122924) 42.87530 (05112824) 44.87974 (06120424) 49.07039 (06120424) 375670.2 | 39.88685 (05122924) 40.58039 (061030424) 40.97537 (07120924) 44.40941 (06120424) 47.51050 (06120424) 375670.2 | 39.88685 (05122924) 38.62709 (05112824) 40.03835 (06120424) 43.50387 (06120424) 47.5050 (06120424) 3756670.2 | 34.2244 (05112824) 36.73897 (05112824) 39.6278 (06120424) 42.24312 (06120424) 43.43917 (06120424) 3756650.2 | 33.9935 (05112824) 35.66110 (06120424) 38.8730 (06120424) 40.70502 (06120424) 41.1045 (06120424) 3756650.2 | 33.99635 (05112824) 35.60111 (06120424) 37.84779 (06120424) 38.95751 (06120424) 41.0455 (06120424) 3756650.2 | 33.99635 (05112824) 35.60111 (06120424) 37.84779 (06120424) 38.95751 (06120424) 41.0455 (06120424) 3756670.2 | 34.9244 (05112824) 35.60111 (06120424) 37.84779 (06120424) 38.95751 (06120424) 41.0455 (06120424) 3756670.2 | 34.9244 (05112824) 35.60111 (06120424) 37.84779 (06120424) 38.95751 (06120424) 38.6706 (06120424) 37.8479 (06120424) 38.95751 (06120424) 38.6706 (06120424) 37.8479 (06120424) 38.95751 (06120424) 38.6706 (06120424) 37.8479 (06120424) 38.95751 (06120424) 38.6706 (06120424) 37.8479 (06120424) 37.8479 (06120424) 38.95751 (06120424) 38.6706 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (06120424) 37.8479 (061204
                                                                                                                                                                                                                                                                                                                 FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                                      1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                          VOL1 , AREA1 ,
                                                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                    ** CONC OF PM10. IN MICROGRAMS/M**3
     i-COORD |
(METERS) |
                                                                                                                                                                                                                                                                                           X-COORD (METERS)
                                                          372145.22 372175.22 372205.22 372235.22
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182. 28291m(05012424)

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181. 83004 (05121124)

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174. 46300 (05120824)
152. 85703 (05120824)
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70.91616 (06010524)
10/26/10
14:48:25
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   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                           ** CONC OF PM10. IN MICROGRAMS/M**3
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(METERS) |
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     **MODELOPTS: NonDEAULT CONC
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                                                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                  ** CONC OF PM10. IN MICROGRAMS/M**3
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129.40427 (07081524)
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NODRYDPLT NOWETDPLT
                                                                                                                                           *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                          INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                 VOL1 , AREA1 ,
                                                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
          Y-COORD | X-COORD (METERS)
(METERS) | 372295.22 372325.22 372355.22 372385.22 372415.22
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RRSION 09292 *** *** Site 14 - PMIO
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      *** AERMOD - VERSION 09292 ***
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NODRYDPLT NOWETDPLT
     **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                       1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                           INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
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          Y-COORD
(METERS)
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NODRYDPLT NOWETDPLT
 **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                        *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                          ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                                                                        X-COORD (METERS)
                                                                       372445.22 372475.22 372505.22 372535.22 372565.22
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*** 55.63568 (07081524)

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  **MODELOPTS: NonDFAULT CONC
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                                                                                                                                                                           *** THE \: 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \: VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \: VOL1 \: , AREA1 \: ,
                                                                                                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                             ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                                               X-COORD (METERS)
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(METERS) |
                                                                       372595.22 372625.22 372655.22 372685.22 372715.22
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 **MODELOPTs: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                                                                                                         1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                              INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                            VOL1 , AREA1 ,
                                                                                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                    ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                             X-COORD (METERS)
                                                         372595.22 372625.22 372655.22 372685.22 372715.22
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PAGE 24
 **MODELOPTS: NonDFAULT CONC
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                                                                                                                                           *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                                                                                          VOL1 , AREA1 ,
                                                                                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                         ** CONC OF PM10. IN MICROGRAMS/M**3
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 **MODELOPTS: NonDFAULT CONC
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                                                                                                                                         *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol.1 \, , AREA1 \, ,
                                                                                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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3756860.2 | 36.01922 (05120324) 33.17704 (051: 3756830.2 | 34.30535 (05120324) 32.28708 (051: 3756800.2 | 32.46575 (05120324) 31.12603 (051: 375670.2 | 30.57789 (05120324) 29.77707 (051: 3756740.2 | 28.70099 (05120324) 28.31236 (051: 3756740.2 | 26.88203 (05120324) 26.79445 (051: 375650.2 | 25.15314 (05120324) 25.27413 (051: 3756550.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.53277 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.78870 (051: 3756650.2 | 23.5327 (05120324) 23.
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23, 70671 (07021324)
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23, 19507 (05081524)
22, 94319 (05081524)
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25.65521 (05120324)
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25.07038 (05081524)
24.33207 (05081524)
23.26431 (05081524)
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 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                      ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                      X-COORD (METERS)
                                                         X-CUORD (MRIEKS)
372895.22 372925.22 372985.22 373015.22
     (METERS)
                                                                  47.14659 (07071524) 39.81435 (07071524) 31.30453 (07071524) 32.85817 (07092824) 45.31944 (07071524) 36.51101 (07071524) 34.71439 (07031824) 37.68245 (07092824) 42.38164 (07071524) 37.07813 (07031824) 40.01379 (07092824) 42.23350 (07092824) 39.66284 (07031824) 42.62877 (07092824) 45.17659 (07092824) 46.01426 (07092824) 45.57543 (07092824) 48.50190 (07092824) 49.59129 (07092824) 48.57650 (07092824) 52.28724 (07092824) 53.67390 (07092824) 52.71223 (07092824) 49.77235 (07092824)
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107. 51104 (06101024)
129. 84632 (06101024)
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121. 10197 (0610022)
117. 79800 (06052024)
123. 20064 (05081824)
124. 12377 (06101024)
125. 10197 (05081824)
102. 74543 (05102324)
97. 41885 (07051524)
101. 94109 (06060724)
83. 84025 (06060724)
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54.31752 (07/09/82/4)

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114.1976 (06101024)
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74.86143 (06060724)

75.05135 (07110724)

57.05135 (07110724)

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47.36554 (05070224)

47.36594 (05061424)

47.3800 (06051424)

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41.24648 (05081244)

42.20926 (05012924)

32.20993 (05012924)

29.50959 (05012924)
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92.87066 (06060724)

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79.36426 (06060724)

66.59219 (06060724)

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49.65092 (06051424)

44.78806 (06051424)
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59.61816 (06060724)
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47.62010 (07110724)
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44.11930 (05070224)
41.97859 (05070224)
38.83422 (06051424)
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76.98768 (06060724)
75.29258 (06060724)
70.36675 (06060724)
55.78768 (07110724)
47.34462 (07110724)
46.73699 (05070224)
46.2031 (05070224)
41.95711 (05070224)
43.54816 (06051424)
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35.81254 (05082324)
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3756980.2 29.40242 (07092724) 30.07643 (070
*** AERMOD - VERSION 09292 *** *** Site 14 - PM10
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30.07643 (07092724)
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28.85710 (05012924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10/26/10
14:48:25
PAGE 27
                                                                                                                                                                                                                                                                                                            FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                                      1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                          INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                      VOL1 , AREA1
                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                                         X-COORD (METERS)
372895.22 372925.22 372955.22 372985.22 373015.22
     Y-COORD
                                                                         27.57727 (06071724) 28.13196 (07092724) 28.42324 (07092724) 26.53770 (06071724) 25.86069 (06071724) 26.94982 (07092724) 24.96467 (07090824) 25.41113 (06071724) 24.15417 (06071724) 24.65157 (07090824) 24.38389 (07090824) 24.21563 (06071724) 23.92550 (07021324) 24.61381 (07090824) 23.56222 (07090824) 23.74826 (07021324) 23.0178 (07090824) 24.3085 (07021324) 22.32058 (07021324) 22.09966 (07090824) 24.00686 (07090824) 22.32058 (07021324) 22.9966 (07090824) 22.75481 (07090824) 21.10843 (07091324) 20.8919 (07021324) 22.75481 (07090824) 21.10843 (05081524) 20.08020 (07021324) 19.47183 (07021324) 19.87103 (07021324) 19.87103 (07021324) 19.87103 (07021324) 19.87103 (07021324)
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26.88869 (07092724) 25.15045 (05012924)
25.83082 (07092724) 25.45741 (07092724)
23.24795 (07092724) 24.76103 (07092724)
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23.74826 (07021324) 22.09966 (070
23.18811 (07021324) 22.09966 (070
22.32058 (07021324) 21.46471 (070
21.2251 (07021324) 20.8919 (070
21.10843 (05081524) 20.08020 (070
RSION 09292 *** Site 14 - PM10
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  3756680.2
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*** AERMOD - VERSION 09292 ***
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NODRYDPLT NOWETDPLT
                                                                                                                                                                                      1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                           INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                      VOL1 , AREA1 ,
                                                                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                               ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                          X-COORD (METERS)
       Y-COORD
       (METERS)
                                                                                  373045.22
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56.28211 (07051524)
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51.3293 (06060724)
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48.3283 (07110724)
40.22910 (07110724)
41.2688 (05070224)
33.4034 (05070224)
33.84034 (05070224)
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33.13334 (06051424)
33.313334 (06051424)
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77.25370 (06101024)
85.28163 (06101024)
89.77467 (06101024)
84.36424 (06101024)
74.43058 (06101024)
65.2406 (06052024)
71.83016 (05081824)
76.95028 (05081824)
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71.62335 (05081824)
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72.38436 (06050424)
63.84836 (06050424)
65.26364 (06050424)
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65.26367 (07051524)
65.96803 (07051524)
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76.98149 (06101024)
78.81295 (06101024)
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64.84084 (06101024)
65.84032 (06052024)
61.47336 (06052024)
61.47336 (05081824)
69.87527 (05081824)
69.87527 (05081824)
65.67614 (05081824)
59.88054 (05081824)
55.88054 (05081824)
45.4386 (06050424)
44.52982 (07051524)
49.97358 (07051524)
52.87214 (07051524)
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48.10685 (07051524)
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                                                                     56.68636 (06101024)
70.13401 (06101024)
83.20900 (0610024)
94.33998 (06101024)
101.55331 (06101024)
102.94363 (06101024)
97.62840 (06101024)
98.48828 (06101024)
79.82232 (06052024)
     3757940.2
     3757910.2
     3757880.2
     3757760.2
                                                                        79.82232 (06052024)
76.16116 (06052024)
83.80747 (05081824)
87.47338 (05081824)
84.74132 (05081824)
77.34784 (05081824)
71.15617 (06050424)
65.38013 (06050424)
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67.72467 (07051524)
64.90432 (07051524)
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61.65145 (06060724)
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     3757730.2
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     3757550.2
     3757520.2
     3757490.2
      3757460 2
     3757430.2
3757430.2
3757400.2
3757370.2
                                                                        61.65145 (06060724)

56.85653 (06060724)

52.33113 (07110724)

47.29688 (07110724)

41.30082 (05070224)

41.01828 (05070224)

37.557384 (05070224)

37.557384 (05070224)

39.14007 (06051424)
                                                                                                                                                                                                                                                                                                 53.74259 (06060724)

51.08020 (06060724)

47.89273 (07110724)

45.49172 (07110724)

34.42447 (07110724)

36.86784 (05070224)

36.71548 (05070224)

33.99912 (05070224)

32.51286 (06051424)
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45.44310 (06060724)
42.73159 (07110724)
42.50828 (07110724)
39.76040 (07110724)
34.50439 (07110724)
31.00922 (05070224)
33.17268 (05070224)
33.09659 (05070224)
30.79295 (05070224)
    3757310.2
     3757280.2
    3757280.2
3757250.2
3757220.2
3757190.2
3757160.2
     3757130.2
     3757100.2
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31.74267 (06051424)
33.13534 (06051424)
32.32982 (06051424)
29.63951 (05082324)
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     3757070.2
   3757070.2 39.14007 (06051424) 36.20966 (050 3757010.2 37.91848 (05051424) 36.87442 (050 3757010.2 34.84973 (05082324) 34.99702 (060 3756980.2 33.40338 (05082324) 32.90023 (050 3756950.2 29.91630 (05082324) 31.17798 (050 *** AERMOD - VERSION 09292 *** *** Site 14 - PM10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30.79295 (05070224)
28.20546 (06051424)
30.81242 (06051424)
31.46151 (06051424)
30.11490 (06051424)
10/26/10
14:48:25
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36.9742 (06051424)
32.90023 (05082324)
31.17798 (05082324)
                                                                                                                                                                                                                                                                                                  34.72705 (06051424)
34.59359 (06051424)
32.22102 (06051424)
31.05003 (05082324)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAGE
   **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                                                                                    *** THE 1ST HIGHEST 24-
INCLUDING SOURCE(S):
                                                                                                                                                                                1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                                           VOL1 , AREA1
                                                                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                            ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                              373045.22 373075.22 373105.22 373135.22 373165.22
       (METERS)
                                                                         26.71809 (05012924) 27.70247 (05082324) 29.12123 (05082324) 29.29802 (05082324) 28.28887 (05082324) 25.31064 (05012924) 24.82629 (05012924) 25.69159 (05082324) 27.22043 (05082324) 27.64206 (05082324) 23.35510 (05012924) 23.53653 (05012924) 23.14384 (05012924) 23.86403 (05082324) 25.46353 (05082324) 24.11638 (07092724) 21.76436 (05012924) 21.95796 (05012924) 21.63852 (05012924) 22.20023 (05082324) 23.73413 (07092724) 22.85776 (07092724) 20.34542 (05012924) 20.54657 (05012924) 22.285776 (07092724) 20.34542 (05012924) 20.28583 (05012924) 21.93220 (07092724) 22.7471 (07092724) 21.79114 (07092724) 20.55614 (07092724) 18.00911 (07092724) 20.40512 (06071724) 21.28450 (07092724) 21.79114 (07092724) 20.55614 (07092724) 18.00911 (07092724)
    3756920.2
3756890.2
3756860.2
3756830.2
     3756800.2
     3756770.2
    3756740.2
   19.12085 (06071724)
19.59590 (06071724)
20.92269 (07090824)
                                                                                                                                                                                                                                                                                   20.64044 (07092724)
20.64044 (07092724)
18.44586 (07092724)
18.59890 (06071724)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10/26/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14:48:25
   **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                                                                                   NODRYDPLT NOWETDPIT
                                                                                                                                    *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                                                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                                       CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

157.43072 (06123024) 372200.97 3757196.42 177.42680 (05120824)
48.13880 (05061324) 372746.74 3757147.17 57.89363 (05012924)
68.13623 (05012924) 372894.46 3757118.45 47.20707 (06051424)
159.66467 (06090524)
*** Site 14 - PM10

***
                        X-COORD (M) Y-COORD (M)
  372149.67 3757202.57
372734.43 3757035.57
372767.26 3757192.31
372371.27 3757725.77
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10/26/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAGE 31
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                  FLAT
                                                                                                                                                                                                                                                                                             NODRYDPIAT NOWETDPIAT
                                                                                                                                                                                                                *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
                                                                                                                                                               ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                              RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OF TYPE GRID-ID
                                                                                                                                                  AVERAGE CONC (YYMMDDHH)
GROUP ID
                         HIGH 1ST HIGH VALUE IS 1461.34019 ON 05120824: AT ( 372415.22, 3757400.16, 10.00, 10.00,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.00) GC UCART1
 *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 14 - PM10
***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14:48:25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAGE 32
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                  FLAT
                                                                                                                                                                                                                                                                                                   NODRYDDIAT NOWETDRIAT
    *** Message Summary : AERMOD Model Execution ***
       ----- Summary of Total Messages -----
                                                                                        O Fatal Error Message(s)
```

```
**

** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 14\PM25.ADI
 **
 ***********
 ** AERMOD Control Pathway

**
**
CO STARTING
TITLEONE Site 14 - PM2.5
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24 ANNUAL
      URBANOPT 9862049 Los_Angeles_County
OKBANOPT 986204
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
** AERMOD Source Pathway
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1 VOLUME 372476.980 3757462.370 0.0
LOCATION VOLL VOLUME 372476.980 3/3/462.30 0.0

** DESCRSRC Equipment
LOCATION AREA1 AREA 372375.090 3757366.850 0.0

** DESCRSRC Dust

** Source Parameters **
SRCPARAM VOLL 0.0372 4.100 46.783 1.163
SRCPARAM AREA1 0.0001006 0.000 201.168 201.168 0.000
URBANSRC AREA1-VOL1
SRCGROUP ALL
 SO FINISHED
 ......
RE STARTING
RE STARTING
GRIDCART UCART1 STA
XYINC 371692.63 50 30.00 3756649.46 50 30.00

GRIDCART UCART1 END
** DESCREC ** **
DISCCART 372149.67 3757202.57
DISCCART 37220.97 3757196.42
DISCCART 372234.43 3757083.57
DISCCART 372746.74 3757147.17
DISCCART 372746.74 3757147.17
DISCCART 372894.46 3757129.31
DISCCART 372894.66 3757192.31
DISCCART 3723894.67 3757725.77
RE FINISHED
RE FINISHED
 *********
 ** AERMOD Meteorology Pathway
ME STARTING
     STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
 ME FINISHED
 ** AERMOD Output Pathway
OU STARTING
 OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST

** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24HIGALL.PLT
PLOTFILE ANNUAL ALL PM25.AD\ANOOGALL.PLT
OUR PRINCUES
OU FINISHED
  **MODELOPTs: NonDFAULT CONC
                                                                                                           NODRYDPLT NOWETDPLT
         *** MODEL SETUP OPTIONS SUMMARY ***
  **Model Is Setup For Calculation of Average CONCentration Values.
      -- DEPOSITION LOGIC --
  **NO GAS DEPOSITION DATA Provided.

**NO PARTICLE DEPOSITION DATA Provided.

**MODEL USES NO DRY DEPLETION. DRYDPLT = F

**Model USES NO WET DEPLETION. WETDPLT = F
  **Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s), for Total of 1 Urban Area(s):
```

```
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m
 **Model Allows User-Specified Options:
                      Allows User-Specified Options.

1. Stack-tip Downwash.

2. Model Assumes Receptors on FLAT Terrain.

3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.

    No Exponential Decay.
    Urban Roughness Length of 1.0 Meter Used.

**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR and Calculates ANNUAL Averages
**This Run Includes: 2 Source(s); 1 Source Group(s); and 2507 Receptor(s)
**The Model Assumes A Pollutant Type of: PM2.5
**Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
                          Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                  m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot
Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                               ; Rot. Angle =
 **Approximate Storage Requirements of Model = 3.8 MB of RAM.
10/26/10
                                                                                                                                                                                                                                                                                                                                                   15:37:05
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                                           *** VOLUME SOURCE DATA ***
                                     NUMBER EMISSION RATE

PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
CATS. (METERS)               ID
          OL1 0 0.37200E-01 372477.0 3757462.4 10.0 AERMOD - VERSION 09292 *** *** Site 14 - PM2.5 ***
                                                                                                                                                                                  4.10 46.78 1.16
                                                                                                                                                                                                                                                              YES
                                                                                                                                                                                                                                                                                                                                                  10/26/10
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                                                           *** AREA SOURCE DATA ***
                                      NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                     NUMBER EMISSION RATE COORD (SW CORNER) BASE
                                                                                                                                                                                                                                                                                                INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
                                                                                                                                                                                                                                                                  OF AREA
                                                                                                                                                                                                                                                                       (DEG.) (METERS)
 - - - - -
          AREA1
                                                                                                                                                                                   0.00 201.17 201.17
                                                                                                                                                                                                                                                                                                      0.00 YES
                                                                                                                                                                                                                                                                                                                                                10/26/10
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                        FLAT
                                                                                                                                                                                       NODRYDPIAT NOWETDPIAT
                                                                                                                       *** SOURCE IDS DEFINING SOURCE GROUPS ***
ALL VOL1 , AREA1 , *** AERMOD - VERSION 09292 ***
                                                                                                *** Site 14 - PM2.5
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                        FLAT
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                            *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                    *** X-COORDINATES OF GRID ***
                                                                                                                                                  (METERS)
                 371692.6, 371722.6, 371752.6, 371782.6, 371812.6, 371842.6, 371872.6, 371902.6, 371932.6, 371992.6, 372022.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032.6, 372032
                                                                                                                    *** Y-COORDINATES OF GRID ***
(METERS)
               3756649.5, 3756679.5, 3756709.5, 3756739.5, 3756769.5, 3756799.5, 3756829.5, 3756859.5, 3756889.5, 3756949.5, 3756949.5, 3756949.5, 375709.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3757189.5, 3
 15:37:05
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**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                        NODRYDDIA NOWETDDIA
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Site #14 – Localized $PM_{2.5}$ Concentrations

*** DISCRETE CARTESIAN RECEPTORS *** (X-COORD, Y-COORD, ZELEV, ZHLL, ZFLAG) (METERS)								
(372149.7, 3757202.6, 10.0, (372734.4, 3757083.6, 10.0, (372767.3, 3757192.3, 10.0, (372371.3, 3757725.8, 10.0, *** AERMOD - VERSION 09292 *** Site	10.0, 0.0); (3722 10.0, 0.0); (3727 10.0, 0.0); (3727 10.0, 0.0); (3728 10.0, 0.0);	01.0, 3757196.4, 46.7, 3757147.2, 94.5, 3757118.4,	10.0, 10.0, 10.0, 10.0, 10.0, 10.0,	0.0); 0.0); 10/26/10 15:37:05				
**MODELOPTS: NonDFAULT CONC	FLAT NODRYDPLT N	OWETDPLT		PAGE 7				
	BINATIONS FOR WHICH CALCULATIONS	MAY NOT BE PERFORMED *						
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL								
SOURCE ID 	RECEPTOR LOCATION XR (METERS) YR (METERS)	DISTANCE (METERS)						
VOL1 VOL1 VOL1 VOL1 VOL1 VOL1 VOL1 VOL1	372442.6 3757369.5 372472.6 3757369.5 372472.6 3757369.5 372442.6 3757399.5 372442.6 3757399.5 372472.6 3757399.5 372502.6 3757399.5 372502.6 3757399.5 372502.6 3757399.5 372502.6 3757429.5 372472.6 3757429.5 372472.6 3757429.5 372472.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757429.5 372502.6 3757459.5 372472.6 3757459.5 372472.6 3757459.5 372502.6 3757459.5	-7.57 -4.20 -10.59 -28.91 -37.52 -32.65 -16.59 -0.66 -28.31 -53.01 -67.39 -58.86 -35.93 -8.83 -6.19 -36.17 -66.11 -95.35 -74.77 -44.86 -14.88						
VOL1 VOL1 VOL1 VOL1 VOL1 VOL1 VOL1 VOL1	372382.6 3757489.5 372412.6 3757489.5 372472.6 3757489.5 372502.6 3757489.5 372502.6 3757489.5 372502.6 3757489.5 372412.6 3757489.5 372412.6 3757519.5 372412.6 3757519.5 372472.6 3757519.5 372502.6 3757519.5 372502.6 3757519.5 372502.6 3757519.5 372502.6 3757519.5	-2.42 -30.76 -56.84 -73.15 -63.28 -38.69 -10.75 -14.56 -43.33 -38.00 -20.86 -6.96 -13.38 -9.79	:::	10/26/10				
*** **MODELOPTS: NonDFAULT CONC	FLAT		***	15:37:05 PAGE 8				
	NODRYDPLT N							
1111111111 1111 11111 1111111111 1 11111 111111	*** METEOROLOGICAL DAYS SELECTED (1=YES; 0=NO) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11111111	1 1 1 1 1 1 1 1				
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NOIE. METEOROLOGICAL DATA	ACTUALLY PROCESSED WILL ALSO DEPE	ND ON WHAT IS INCLUDED	IN THE DATA FILE.					
*** UPPER	BOUND OF FIRST THROUGH FIFTH WIN. (METERS/SEC)	D SPEED CATEGORIES ***						
*** AERMOD - VERSION 09292 ***	1.54, 3.09, 5.14, 8.2 14 - PM2.5	3, 10.80,	***	10/26/10 15:37:05 PAGE 9				
**MODELOPTS: NonDFAULT CONC	FLAT NODRYDPLT N	OWETDPLT						
	TO THE FIRST 24 HOURS OF METEOROL							
Surface file: L:\Library & Reference\W Profile file: L:\Library & Reference\W Surface format: FREE Profile format: FREE	ind Data\South Coast Air Basin\AE	RMOD Met Data\laxh.SFC RMOD Met Data\laxh.PFL	Met Version:	06341				
Surface station no.: 0 Name: UNKNOWN Year: 2005	Upper air station no.: Name: UNK Year: 2	NOWN						
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10/26/10
                                                                                          NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOI.1 . AREA1
                                                                                    VOL1 , AREA1
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                       ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                       X-COORD (METERS)
    Y-COORD
                                                         371752.63
    (METERS)
                         371692.63 371722.63
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*** Site 14
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15:37:05
PAGE 11
                  VERSION 09292 ***
**MODELOPTS: NonDFAULT CONC
                                                                                           FLAT
                                                                                           NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                  VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                     ** CONC OF PM2.5 IN MICROGRAMS/M**3
    Y-COORD
                                                                                       X-COORD (METERS)
                         371692.63 371722.63 371752.63 371782.63 371812.63 371842.63 371872.63 371902.63 371932.63
                                               2.39062
  3756919.46 |
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*** AERMOD - VERSION 09292 ***
                                                *** Site 14 - PM2.5
                                                                                                                                                                        10/26/10
15:37:05
PAGE 12
**MODELOPTs: NonDFAULT CONC
                                                                                           NODRYDPLT NOWETDPLT
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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): VOL1 , AREA1 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 372052.63 372172.63 371962.63 371992.63 372022.63 372082.63 372112.63 372142.63 (METERS) 3758119 46 0 53083 0 59018 0 62061 0 68111 3758119.46 3758089.46 3758059.46 3758029.46 0.51778 0.53383 0.55025 0.54990 0.56897 0.58824 0.58294 0.60575 0.62873 0.61665 0.64370 0.67121 0.68581 0.72229 0.76049 0.72027 0.76205 0.80642 0.75322 0.80064 0.85172 0.78409 0.83701 0.89488 0.65101 0.71522 0.74871 3757999.46 0.56751 0.60798 0.65206 0.69916 0.80026 0.85327 0.90647 0.95798 3757969.46 0.58649 0.62878 0.67606 0.72771 0.78308 0.84152 0.90247 0.96483 1.02645 3757939.46 0.60844 0.65176 0.70143 0.75721 0.81844 0.88432 0.95406 1.02675 1.10036 0.81844 0.85522 0.89477 0.93957 0.99247 1.05623 0.63460 0.66599 0.70355 0.74814 0 67851 0.92872 1 00816 1 09241 1.00816 1.06490 1.12516 1.19156 1.16209 1.23613 1.31591 0.91516 0.79519 0.85058 3757789.46 0.90811 0.80078 0.97568 1.15283 1.26822 1.40507 1.56487 3757759.46 0.86368 0.91717 0.97853 1.05005 1.13476 1.23660 1.35996 1.50909 1.68828 0.97853 1.06534 1.17407 1.30795 1.46675 1.65593 1.88917 3757729.46 0.94035 0.99882 1.14232 1.23303 1.34171 1.47374 1.63558 1.83438 1.03350 1.14305 1.26870 1.41699 1.09959 1.22080 1.36178 1.52862 1.14232 1.25920 1.40676 1.58608 1.80207 .35838 .52033 .72320 .97140 1.63558 1.79681 2.01092 2.30297 2.69592 3757699.46 3757669.46 3757639.46 3757609.46 1.81365 2.07236 2.40730 2.17020 2.53861 3.05654 3757579.46 1.59677 1.73265 2.07115 2.28476 2.84530 3.22376 3.70360 3757549.46 1.80311 1.97026 2.16465 2.39338 2.66614 2.99630 3.40309 3.91634 4.58483 3757519.46 2.02226 2.22636 2.46680 2.75366 3.10123 3.53043 4.07275 5.72822 2.80641 3.20335 3.65941 4.90180 5.89106 6.97537 3757489.46 2.26000 2.50869 3.16785 61399 4.17596 5.86935 7.21054 2.83690 3.21497 2.85135 3.19761 8.04381 3757399.46 3.62790 4.15563 4.81117 5.63616 6.68762 9.81283 12.14570 3757369.46 3.55867 4.05393 4.65907 5.40503 6.33186 7.49154 8.95207 10.80244 13.15880 3757339.46 3.92823 4.47947 5.14546 5.95362 6.93784 8.14003 9.61135 11.41244 13.61579 3757309.46 4.29268 4.88255 5.58263 6.41429 40217 8.57363 9.95671 13.45533 4.61437 4.85447 4.99243 5.21573 5.43758 5.53046 5.91373 6.09707 6.11966 6.72183 6.83714 6.75493 6.49296 7.65282 7.65735 7.42457 8.71629 8.54938 8.10745 7.46466 9.91446 9.49274 8.77111 7.87134 12.64931 11.35714 9.84100 8.32944 3757279.46 11.23654 3757249.46 3757249.46 3757219.46 3757189.46 11.23654 10.44959 9.36958 8.17459 7.00392 5.02102 5.49120 5.98577 6.99439 3757159.46 4.94163 5.32889 5.71664 6.09000 6.42984 6.71327 6.91396 6.95990 3757129.46 3757099.46 4.76627 5.06559 5.34741 5.59749 5.79939 5.93517 5.98701 5.94044 5.78851 4 51607 4 73167 5 06535 15893 5 14271 5 01930 4 81879 3757099.46 3757069.46 3757039.46 3757009.46 3756979.46 4.21630 3.89078 3.55852 3.23319 4.73167 4.35843 3.97208 3.59183 4.53225 4.02456 3.55752 3.13799 4.54703 3.98616 3.48619 3.04883 4.40348 3.77177 3.23965 2.79508 4.24357 3.60022 3.07097 2.63704 4.46674 4.01856 3.59239 3.19881 3.23038 3756949.46 | 2.92377 *** AERMOD - VERSION 09292 *** 2.89520 2.84277 2.76750 2.67113 2.55606 2.42507 2.28103 2.12650 *** Site 14 - PM2.5 10/26/10 15:37:05 FLAT NODRYDPLT NOWETDPLT **MODELOPTS: NonDFAULT CONC VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL *** THE ANNUAL AVERAGE CONCENTRATION , AREA1 INCLUDING SOURCE(S): VOL1 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 Y-COORD X-COORD (METERS) (METERS) 371962.63 371992.63 372022.63 372052.63 372082.63 372112.63 372142.63 372172.63 372202.63 2.44434 2.16480 1.92407 2.34767 2.07185 1.83698 1.98778 1.74459 1.54123 3756919.46 3756889.46 2.63565 2.37182 2.59006 2.31631 2.52574 2.24679 1.96978 1.86035 1.62359 3756859.46 2.13354 2.07357 2.00337 1.64489 3756829.46 1.92076 1.86012 1.79197 1.71714 1.63676 1.55187 1.46284 1.36974 1.27469 3756799.46 1.73237 1.67335 1.53911 1.46550 1.38844 1.30780 1.22403 1.13998 1.51026 1.36782 1.24314 3756769.46 1.56645 1.44975 1.38553 1.31829 1.24811 1.17482 1.09952 1.02539 0.99261 0.90041 0.82053 1.13363 0.76997 0.70627 0.94586 3756649.46 | 1.08003 *** AERMOD - VERSION 09292 *** 1.03701 *** Site 14 0.99221 0.89786 0.84844 0.79886 0.75097 10/26/10 - PM2.5 *** 15:37:05 PAGE **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL , AREA1 INCLUDING SOURCE(S): VOL1 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM2.5 Y-COORD X-COORD (METERS) (METERS) 372232.63 372262.63 372292.63 372322.63 372352.63 372382.63 372412.63 372442.63 372472.63 3758119.46 3758089.46 3758059.46 3758029.46 1.02405 1.10418 1.19535 1.08421 1.17133 1.27054 0.84570 0.90774 0.97707 0.92894 1.00069 1.08169 0.88365 0.98027 1.05793 1.23420 0.87166 0.93570 1.12281 1.02465 1.14625 1.21885 1.29984 1.38435 1.46562 3757999.46 1.00670 1.05487 1.10879 1.17354 1.24720 1.32942 1.42058 1.51603 1.60904 3757969.46 1.08528 1.14237 1.20426 1.36323 1.45759 1.56131 1.66982 1.77688 1.72691 1.92378 2.16052 2.44894 3757849.46 1.48451 1.61425 1.74456 1.88775 2.05625 2.24560 2.65479 2.86120 3757819.46 1.60885 1.76927 1.93293 2.10963 2.31770 2.55342 2.80589 3.06014 3.31332 3757789.46 1.74588 1.94306 2.15014 2.37211 2.63362 2.93429 3.25624 3.57908 3.89735 3757759.46 1.89968 2.13987 2.40207 2.68600 3.02026 3.41342 3.83748 4.26163 4.67325 2.40207 2.69838 3.05498 3.49805 3757729.46 3757699.46 3757669.46 2.36735 2.63750 2.97699 3.06712 3.54100 4.14826 3.50262 4.12211 4.95348 4.60894 5.67469 7.24351 5.19037 6.51112 8.51936 2.07742 5.74239 2.57215 9.72292 3757639.46 2.96036 3.44305 4.08930 4.96480 6.14153 7.78464 9.82056 11.96179 19.36246 14.00837 3757609.46 3.51999 4.13266 4.97173 6.17401 8.02097 11.01651 15.11667 22.97317 3757579.46 3757549.46 4.33336 5.49379 5.19346 6.42628 8.32159 12.65773 11.69067 21.20935 35.62398 44.18289

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*** Site 14 - PM2.5
                  VERSION 09292
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                                                                                                                                                                              PAGE 15
**MODELOPTS: NonDFAULT CONC
                                                                                              FLAT
                                                                                               NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                INCLUDING SOURCE(S):
                                                                                       VOL1
                                                                                                , AREAl
                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                         ** CONC OF PM2.5
                                                                                       IN MICROGRAMS/M**3
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15:37:05
                  VERSION 09292
                                                                                                                                                                              PAGE 16
**MODELOPTS: NonDEAULT CONC
                                                                                              FLAT
                                                                                              NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                                                , AREAl ,
                                                                                       VOL1
                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                        ** CONC OF PM2.5
                                                                                     IN MICROGRAMS/M**3
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173.86869
178.65212
 3757669.46
3757639.46
3757609.46
3757579.46
                                               11.67111
17.03501
27.21761
53.90995
                                                                                     9.22631
12.43275
17.45313
25.71582
41.11888
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16.62473
22.77053
29.68148
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14.01352
16.58691
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12.55062
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11.14735
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  3757549.46
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  3757519.46
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206.02425
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188.63562
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14.22124
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                                                                 175.48093
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17.17317
10.11912
                                              190.88313
178.66559
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                                               17.66027
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  3757069.46
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1.01990
0.93519
                                                0.98028 0.93995
*** Site 14 - PM2.5
 3756949.46 | 1.02653
*** AERMOD - VERSION 09292 ***
                                                                                       0.91176
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                                                                                                                                                                                        0.79599
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                                                                                                                                                                             15:37:05
                                                                                                                                                                              PAGE 17
**MODELOPTS: NonDFAULT CONC
                                                                                              FLAT
NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                                                , AREA1
                                                 INCLUDING SOURCE(S):
                                                                                       VOL1
```

*** NETWORK ID: HCART1 : NETWORK TYPE: GRIDCART ***

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** CONC OF PM2.5 IN MICROGRAMS/M**3
    Y-COORD
                                                                                        X-COORD (METERS)
                        372502.63 372532.63 372562.63 372592.63 372622.63
                                                                                                                       372652.63 372682.63 372712.63 372742.63
                                               0.81432
0.74784
0.68966
                                                                  0.78161
0.71868
0.66380
  3756889.46
                            0.84881
                                                                                     0.75668
                                                                                                        0.74256
                                                                                                                           0.73437
                                                                                                                                              0.72468
0.66745
                                                                                                                                                                 0.71064
                                                                                                                                                                                    0.69270
                                                                                                                                                                                   0.69270
0.64527
0.60094
0.55974
0.52167
0.48666
                                                                                     0.69522
                                                                                                                           0.67405
 3756859.46
3756829.46
                             0.77780
                                                                                                        0.68121
                                                                                                                                                                 0.65789
                                                                                                                                              0.61599
0.56992
0.52880
                                                                                                         0.62794
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 3756799.46
3756769.46
3756739.46
                                                0.63839
0.59293
0.55240
                                                                  0.61551
0.57267
0.53441
                                                                                     0.59548
0.55448
0.51804
                                                                                                                                                                 0.56548
0.52545
0.48926
                                                                                                        0.58155
                                                                                                                           0.57412
                             0.61358
                                                                                                                                              0.49221 0.45970
                                                                                                                           0.46481
  3756709.46
                             0.53300
                                                0.51611
                                                                                     0.48539
                                                                                                        0.47331
                                                                                                                                                                 0.45666
                                                                                                                                                                                    0.45463
  3756679.46
                             0.49895
                                                0.48347
                                                                  0.46906
                                                                                     0.45596
                                                                                                        0.44483
                                                                                                                           0.43640
                                                                                                                                              0.43082
                                                                                                                                                                 0.42739
3756649.46 | 0.46831
*** AERMOD - VERSION 09292 ***
                                               0.45401 0.44098
*** Site 14 - PM2.5
                                                                                     0.42928
                                                                                                        0.41913
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                                                                                                                                              0.40511
                                                                                                                                                                 0.40118
                                                                                                                                                                                    0.39897
                                                                                                                                                                          10/26/10
15:37:05
PAGE 18
**MODELOPTS: NonDFAULT CONC
                                                                                            FLAT
NODRYDPLT NOWETDPLT
                                                                                    VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
                          *** THE ANNUAL AVERAGE CONCENTRATION
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                       ** CONC OF PM2.5 IN MICROGRAMS/M**3
    Y-COORD
                                                                                        X-COORD (METERS)
                         372772.63 372802.63 372832.63 372862.63 372892.63 372922.63 372952.63 372982.63 373012.63
                                               1.31427
  3758089.46
                            1.43664
                                               1.41871
                                                                  1.40073
                                                                                     1.38623
                                                                                                        1.37667
                                                                                                                           1.37165
                                                                                                                                              1.37017
                                                                                                                                                                 1.37164
 3758059.46
3758029.46
                            1.55825
                                               1.53869
                                                                  1.52107
                                                                                     1.50854
                                                                                                        1.50163
                                                                                                                           1.49934
                                                                                                                                              1.50075
                                                                                                                                                                 1.50531
                                                                                                                                                                                    1.51241
                                                                                                        1.64928
                                                                                                                                                                 1.66314
 3757999.46
3757969.46
3757939.46
3757909.46
                            1.86280
2.05812
2.29447
                                               1.84344
2.04148
2.28260
                                                                  1.83055
2.03312
2.28017
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2.03258
2.28531
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2.05782
2.31546
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2.06771
2.32059
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                             2.58550
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  3757879.46
                             2.94975
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  3757849.46
3757819.46
                             3.41110
                                                3.41756
                                                                  3.42424
                                                                                      3.42319
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 3757819.46
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5.53545
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6.82759
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4.94057
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5.74934
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4.67814
5.01676
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6.23806
5.44512
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9.85648
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10.38961
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5.94793
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5.45025
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4.50172
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3757549.46
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3.61521
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2.70283
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                             7.98168
                                                6.53052
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                             5.46849
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  3757399.46
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  3757279.46
                             2.01158
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                                                                                     1.56513
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  3757249.46
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3757159.46
3757129.46
3757099.46
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1.03421
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0.75927
0.70346
0.65192
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0.77067
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 3757069.46
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                                                                  0.78219
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 3757039.46
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                                                                                                                                                                 0.52232
3756979.46
3756949.46
*** AERMOD -
                  0.83822
0.79463
0.75236
VERSION 09292 ***
                                                0.73042
                                                 0.66591
0.69892 0.64088
*** Site 14 - PM2.5
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                                                                                     0.60816
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15:37:05
                                                                                                                                                                           PAGE 19
**MODELOPTS: NonDFAULT CONC
                                                                                            NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                                    VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                                      VOL1 , AREA1 ,
                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                       ** CONC OF PM2.5
                                                                                    TN MTCROGRAMS/M**3
                                         X-COORD (METERS)
372802.63 372832.63 372862.63 372892.63 372922.63 372952.63 372982.63 373012.63
 3756919.46
                                               0.66797
                                                                                                                                              0.44472
 3756919.46
3756889.46
3756859.46
3756829.46
3756799.46
                            0.71053
0.66912
0.62858
0.58945
0.55215
0.51690
                                               0.66797
0.63664
0.60474
0.57258
0.54068
0.50954
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0.59527
0.57200
0.54775
0.52264
0.49705
                                                                                     0.56611
0.54911
0.53244
0.51520
0.49693
0.47758
0.45737
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0.42753
0.41498
0.40547
0.39763
0.39041
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0.40027
0.38551
0.37489
0.36703
0.36071
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0.49052
0.47812
0.46530
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0.45044
0.44049
0.43112
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0.36248
0.34966
0.34054
                                                                                                         0.45157
                                                                                                                           0.42151
  3756739.46
                             0.48385
                                                0.47953
                                                                  0.47143
                                                                                                        0.43678
                                                                                                                           0.41117
                                                                                                                                              0.38311
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                                                                                                                                                                                    0.32876
  3756709.46
                             0.45307
                                                0.45091
                                                                  0.44617
                                                                                     0.43663
                                                                                                        0.42100
                                                                                                                           0.39989
                                                                                                                                              0.37528
                                                                                                                                                                 0.34946
                                                                                                                                                                                    0.32427
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                                                                  0.42160
                                                                                     0.41570
                                                                                                        0.40445
                                                                                                                                              0.36665
                                                                                                                                                                 0.34345
                                               0.39843 0.39796

*** Site 14 - PM2.5
                                                                                                                                              0.35719
                  VERSION 09292 ***
                                                                                                                                                                           PAGE 20
**MODELOPTS: NonDFAULT CONC
                                                                                            FLAT
                                                                                            NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                    VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                        ** CONC OF PM2.5 IN MICROGRAMS/M**3
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	373042.63			373132.63					
	. = = = = = = =								
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3758089.46	1.38235	1.39043	1.39906 1.53866	1.40720	1.41383				
3758029.46	1.68214	1.69052	1.69622	1.69794	1.69467				
3757999.46 3757969.46			1.87097	1.86392 2.03902					
3757939.46	2.30897	2.28871	2.06002 2.25795	2.21703	2.16671				
3757909.46	2.55731	2.51294	2.45649	2.38925	2.31278				
3757879.46 3757849.46		2.73403 2.93721	2.64425 2.80754	2.54466 2.67136	2.43769 2.53182				
3757819.46	3.27455	3.10581	2.93209	2.75905	2.58817				
3757789.46				2.80152					
3757759.46 3757729.46				2.79701 2.74703					
3757699.46	3.54614	3.21590	2.92021	2.65650	2.42195				
3757669.46 3757639.46		3.09631 2.93604	2.79696 2.64510	2.53469	2.30493 2.17540				
3757609.46		2.75115	2.47781	2.39353 2.24323	2.04078				
3757579.46	2.84983	2.55533	2.30496	2.09053	1.90556				
3757549.46 3757519.46			2.13378 1.96753	1.94066 1.79611	1.77380 1.64746				
3757489.46									
3757459.46		1.80216							
3757429.46 3757399.46	1.78027 1.59897	1.63380	1.50602 1.36761	1.39375 1.27168	1.29448				
3757369.46	1 43130	1.32897	1.23801	1.15673	1.08378				
3757339.46			1.11694	1.04873	0.98697				
3757309.46 3757279.46		1.06985	1.00681 0.91055	0.94965 0.86194	0.89754 0.81759				
3757249.46	0.92707	0.87513	0.82828	0.78589	0.74736				
3757219.46			0.75877	0.72090					
3757189.46 3757159.46	0.72059	0 68429	0.70024 0.65057	0 61942					
3757129.46	0.67041	0.63846	0.60812 0.57129 0.53774 0.50519 0.47251	0.57972	0.55332				
3757099.46 3757069.46	0.62501	0.59794	0.57129	0.54563 0.51542	0.52135 0.49357				
3757039.46	0.53904	0.52264	0.50519	0.48689	0.46819				
3757009.46	0.49755	0.48552	0.47251	0.45840	0.44335				
3756979.46	0.45829 0.42263	0.44922	0.43981 0.40784	0.42946 0.40045					
	VERSION 09292 ***	* *** Site		0.10015	0.33210			***	10/26/10
		***					1	***	15:37:05 PAGE 21
**MODELOPTs:	NonDFAULT CONC			FLAT					PAGE 21
				NODR	YDPLT NOWETI	OPLT			
	*** THE ANNI	HAL AVERAGE C	ONCENTRATION	VALUES AVE	RAGED OVER	3 YEARS FOR SOU	IRCE GROUP: A	AT.T.	***
			SOURCE(S):	VOL1 ,					
		*** NIPTW	ORK ID: UCART1	· NETWOR	r myne. Chii	OGADE ***			
		NEIW	JRK ID. UCARII	. , NEIWOR	K IIPE. GRII	CARI ***			
		** (CONC OF PM2.5	IN MICROG	RAMS/M**3		**		
Y-COORD				X-COORD	(METERS)				
	373042.63	373072.63	373102.63		373162.63				
3756919.46	0.39171	0.38366	0.37761	0.37215	0.36631				
3756889.46	0.36604	0.35653	0.37761 0.35011	0.34539					
3756859.46 3756829.46	0.34561	0.33391	0.32613	0.32101 0.29967	0.31732				
3756799.46	0.31881	0.30204	0.32613 0.30605 0.28993 0.27762	0.28173	0.27648				
3756769.46	0.31087	0.29206	0.27762 0.26871	0.26728	0.26035				
3756739.46 3756709.46		0.28508		0.25621 0.24819					
3756679.46			0.25823 0.25516						
3756649.46	0.29389	0.27365	0.25516	0 22005	0.22505				
*** AERMOD -	VERSION 09292 ***	* *** Site		0.23885	0.22303				10/05/10
		***	14 - PM2.5	0.23885	0.22303			***	10/26/10 15:37:05
MODELOPTs:		*	14 - PM2.5						10/26/10 15:37:05 PAGE 22
	NonDFAULT CONC	***	14 - PM2.5	FLAT		ד. זמר			15:37:05
			14 - PM2.5	FLAT NODR	YDPLT NOWETI		,	***	15:37:05 PAGE 22
		UAL AVERAGE C	14 - PM2.5 ONCENTRATION	FLAT NODR VALUES AVE	YDPLT NOWETI	DPLT 3 YEARS FOR SOU	,	***	15:37:05
		UAL AVERAGE C	14 - PM2.5	FLAT NODR	YDPLT NOWETI		,	***	15:37:05 PAGE 22
		UAL AVERAGE C	14 - PM2.5 ONCENTRATION	FLAT NODR VALUES AVE VOL1 ,	YDPLT NOWETI RAGED OVER AREAl ,	3 YEARS FOR SOU	,	***	15:37:05 PAGE 22
		UAL AVERAGE CO	14 - PM2.5 ONCENTRATION SOURCE(S): *** DISCRETE	FLAT NODR VALUES AVE VOL1 ,	YDPLT NOWETI RAGED OVER AREAL ,	3 YEARS FOR SOU	,	***	15:37:05 PAGE 22
	*** THE ANN	UAL AVERAGE CO	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWETI RAGED OVER AREAL , ECEPTOR POIN RAMS/M**3	3 YEARS FOR SOL	JRCE GROUP: 1	***	15:37:05 PAGE 22
x-coore	*** THE ANNU	UAL AVERAGE COINCLUDING ***(14 - PM2.5 ONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWET! RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOL	JRCE GROUP: 1 ** CONC	***	15:37:05 PAGE 22
	*** THE ANNU	UAL AVERAGE CO INCLUDING ** (14 - PM2.5 DINCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWETI RAGED OVER AREAL , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOU	JRCE GROUP: 1 ** CONC	***	15:37:05 PAGE 22
37214 37273	*** THE ANNI (M) Y-COORD (1) 19.67 3757202.1 14.43 3757083.	UAL AVERAGE C' INCLUDING ** (M) CON 57 8.3: 57 1.0:	14 - PM2.5 ONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 2	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POIN RAMS/M**3 COORD (M) 372200.97 372746.74	3 YEARS FOR SOUNTS *** Y-COORD (M) 3757196.42 3757147.17	TRCE GROUP: 1	***	15:37:05 PAGE 22
37214 37273 37276	*** THE ANNU 0 (M) Y-COORD (1 19.67 3757202.1 44.43 3757082.1 77.26 3757192.1	UAL AVERAGE C' INCLUDING ** (M) CON 57 8.3: 57 1.0:	14 - PM2.5 ONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 2	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POIN RAMS/M**3 COORD (M) 372200.97 372746.74	3 YEARS FOR SOU	JRCE GROUP: 1 ** CONC	***	15:37:05 PAGE 22
37214 37273 37276 37237	*** THE ANNI (M) Y-COORD (1) 19.67 3757202.1 14.43 3757083.	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 33 1.3: 77 3.9: ****SEE	14 - PM2.5 ONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 2	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POIN RAMS/M**3 COORD (M) 372200.97 372746.74	3 YEARS FOR SOUNTS *** Y-COORD (M) 3757196.42 3757147.17	** CONC 8.66368 1.24412 0.80819	*** ALL 	15:37:05 PAGE 22 ***
37214 37273 37276 37237	*** THE ANNI O (M) Y-COORD (1 19.67 3757202.1 14.43 3757083.1 77.26 3757192.7	UAL AVERAGE CI INCLUDING ***(M) CONN 57 8.3: 57 1.0: 31 1.3: 77 3.9	14 - PM2.5 DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POIN RAMS/M**3 COORD (M) 372200.97 372746.74	3 YEARS FOR SOUNTS *** Y-COORD (M) 3757196.42 3757147.17	** CONC 8.66368 1.24412 0.80819	*** ALL	15:37:05 PAGE 22 *** 10/26/10 15:37:05
37214 37273 37276 37237 *** AERMOD -	*** THE ANNI O (M) Y-COORD (1 19.67 3757202.1 14.43 3757083.1 77.26 3757192.7	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 33 1.3: 77 3.9: ****SEE	14 - PM2.5 DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M) 372200.97 372746.74 372894.46	3 YEARS FOR SOL VTS *** Y-COORD (M) 	** CONC 8.66368 1.24412 0.80819	*** ALL 	15:37:05 PAGE 22 ***
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU 0 (M) Y-COORD (I 19.67 3757202. 17.26 3757192. 11.27 3757725. VERSION 09292 ***	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 33 1.3: 77 3.9: ****SEE	14 - PM2.5 DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X	YDPLT NOWETI RAGED OVER AREAL , ECEPTOR POIL RAMS/M**3 COORD (M) 372200.97 372246.74 372894.46	3 YEARS FOR SOL VTS *** Y-COORD (M) 	** CONC 8.66368 1.24412 0.80819	*** ALL 	15:37:05 PAGE 22 *** 10/26/10 15:37:05
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU O (M) Y-COORD (1 19.67 3757202. 44.43 3757083. 17.26 3757192. 17.27 3757725. VERSION 09292 ** NonDFAULT CONC	UAL AVERAGE C' INCLUDING M) CON 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** Site	DINCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 2 5735 9739 14 - PM2.5	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOL WTS *** Y-COORD (M) 	** CONC	***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU O (M) Y-COORD (1 19.67 3757202. 44.43 3757083. 17.26 3757192. 17.27 3757725. VERSION 09292 ** NonDFAULT CONC	UAL AVERAGE CO INCLUDING M) CONN-57 8.33 1.3 1.3 77 3.9 * * * * * * Site	DINCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 2 5735 9739 14 - PM2.5	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X- FLAT NODR	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M) 372200.97 372746.74 372894.46	3 YEARS FOR SOL VTS *** Y-COORD (M) 	** CONC	***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU O (M) Y-COORD (1 19.67 3757202. 44.43 3757083. 17.26 3757192. 17.27 3757725. VERSION 09292 ** NonDFAULT CONC	UAL AVERAGE CO INCLUDING M) CON- 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** Site *** THE 1ST INCLUDING	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M) 372200.97 372746.74 372894.46 YDPLT NOWETI CENTRATION AREA1 ,	3 YEARS FOR SOLUTION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION A	** CONC	***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU O (M) Y-COORD (1 19.67 3757202. 44.43 3757083. 17.26 3757192. 17.27 3757725. VERSION 09292 ** NonDFAULT CONC	M) CON- 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** THE 1ST INCLUDING	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 ,	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M) 372200.97 372746.74 372894.46 YDPLT NOWETI CENTRATION AREA1 , K TYPE: GRII	3 YEARS FOR SOLUTION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION A	CONC 8.66368 1.24412 0.80819	***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU O (M) Y-COORD (1 19.67 3757202. 44.43 3757083. 17.26 3757192. 17.27 3757725. VERSION 09292 ** NonDFAULT CONC	M) CON- 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** THE 1ST INCLUDING	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 ,	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M) 372200.97 372746.74 372894.46 YDPLT NOWETI CENTRATION AREA1 , K TYPE: GRII	3 YEARS FOR SOLUTION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION A	** CONC	***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23
37214 37273 37276 37237 *** AERMOD -	*** THE ANNU O (M) Y-COORD (1 19.67 3757202. 44.43 3757083. 17.26 3757192. 17.27 3757725. VERSION 09292 ** NonDFAULT CONC	M) CON- 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** THE 1ST INCLUDING	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG	YDPLT NOWETI RAGED OVER AREAL , ECEPTOR POIL RAMS/M**3 COORD (M)	3 YEARS FOR SOLUTION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION A	CONC 8.66368 1.24412 0.80819	***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23
37214 37273 37276 37237 *** AERMOD - **MODELOPTs:	*** THE ANNU 0 (M) Y-COORD (1 19.67 3757020.1 44.43 3757023.1 7.26 3757192.1 71.27 3757725. VERSION 09292 ** NonDFAULT CONC	UAL AVERAGE CO INCLUDING M) CON 57 8.30 57 1.00 31 1.30 77 3.99 *** Site *** THE 1ST INCLUDING *** NETWO	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOLUTION OF SOLUTI	CONC		15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 ***
37214 37273 37276 37237 *** AERMOD - **MODELOPTs:	*** THE ANNI O (M) Y-COORD (I 19.67 3757202. 19.67 3757293. 17.26 3757192. 1.27 3757725. VERSION 09292 ** NonDFAULT CONC	UAL AVERAGE CO INCLUDING M) CON 57 8.30 57 1.00 31 1.30 77 3.99 *** Site *** THE 1ST INCLUDING *** NETWO	DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOU NTS *** Y-COORD (M)	CONC		15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 ***
37214 37273 37276 37237 *** AERMOD - **MODELOPTs: Y-COORD (METERS)	*** THE ANNI O (M) Y-COORD (1 19.67 3757202. 19.67 3757708. 11.27 3757792. VERSION 09292 ** NonDFAULT CONC 371692.63 4.21269 (070)	M) CON- 57 8.3: 57 1.0: 31 1.3: 31 77 3.9: *** THE 1ST INCLUDING *** NETW: *** NETW: *** 21124) 4	14 - PM2.5 DNCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X- FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD 37	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M) 372200.97 372746.74 372894.46 YDPLT NOWETI CENTRATION AREA1 , K TYPE: GRII RAMS/M**3 (METERS) 1752.63 4579 (06071-4)	3 YEARS FOR SOLUTION TO SOLUTI	** CONC 8.66368 1.24412 0.80819 ** ** ** ** ** ** ** ** **	*** *** ***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 *** 371812.63 4.69347m(05010924)
37214 37273 37276 37237 *** AERMOD - **MODELOPTs: Y-COORD (METERS) 3758119.5 3758089.5	*** THE ANNU 0 (M) Y-COORD (1 19.67 3757020.1 44.43 3757020.1 47.26 3757192.1 71.27 3757725. VERSION 09292 ** NonDFAULT CONC 371692.63 4.21269 (070.4	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** Site *** THE 1ST INCLUDING *** NETW: *** NETW: 21124) 4	14 - PM2.5 CONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD 37 37 34 4 4 4 4	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOL WTS *** Y-COORD (M) -3757196.42 3757147.17 3757118.45 DPLT VALUES FOR SOUR DCART *** 371782 -424) 4.36481	** CONC	*** *** ***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 *** 371812.63
37214 37273 37276 37237 *** AERMOD - **MODELOPTs: Y-COORD (METERS) 3758119.5 3758089.5	*** THE ANNU 0 (M) Y-COORD (1 19.67 3757020.1 44.43 3757020.1 47.26 3757192.1 71.27 3757725. VERSION 09292 ** NonDFAULT CONC 371692.63 4.21269 (070.4	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** Site *** THE 1ST INCLUDING *** NETW: *** NETW: 21124) 4	14 - PM2.5 CONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD 37 37 34 4 4 4 4	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOL WTS *** Y-COORD (M) -3757196.42 3757147.17 3757118.45 DPLT VALUES FOR SOUR DCART *** 371782 -424) 4.36481	** CONC	*** *** ***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 *** 371812.63
37214 37273 37276 37237 *** AERMOD - **MODELOPTs: Y-COORD (METERS) 3758119.5 3758089.5	*** THE ANNU 0 (M) Y-COORD (1 19.67 3757020.1 44.43 3757020.1 47.26 3757192.1 71.27 3757725. VERSION 09292 ** NonDFAULT CONC 371692.63 4.21269 (070.4	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** Site *** THE 1ST INCLUDING *** NETW: *** NETW: 21124) 4	14 - PM2.5 CONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD 37 37 34 4 4 4 4	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOL WTS *** Y-COORD (M) -3757196.42 3757147.17 3757118.45 DPLT VALUES FOR SOUR DCART *** 371782 -424) 4.36481	** CONC	*** *** ***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 *** 371812.63
37214 37273 37276 37237 *** AERMOD - **MODELOPTs: Y-COORD (METERS) 3758119.5 3758089.5	*** THE ANNU 0 (M) Y-COORD (1 19.67 3757020.1 44.43 3757020.1 47.26 3757192.1 71.27 3757725. VERSION 09292 ** NonDFAULT CONC 371692.63 4.21269 (070.4	UAL AVERAGE CO INCLUDING M) CON 57 8.3: 57 1.0: 31 1.3: 77 3.9: *** Site *** THE 1ST INCLUDING *** NETW: *** NETW: 21124) 4	14 - PM2.5 CONCENTRATION SOURCE(S): *** DISCRETE CONC OF PM2.5 C	FLAT NODR VALUES AVE VOL1 , CARTESIAN R IN MICROG X FLAT NODR AVERAGE CON VOL1 , NETWOR IN MICROG X-COORD 37 37 34 4 4 4 4	YDPLT NOWETI RAGED OVER AREA1 , ECEPTOR POII RAMS/M**3 COORD (M)	3 YEARS FOR SOL WTS *** Y-COORD (M) -3757196.42 3757147.17 3757118.45 DPLT VALUES FOR SOUR DCART *** 371782 -424) 4.36481	** CONC	*** *** ***	15:37:05 PAGE 22 *** 10/26/10 15:37:05 PAGE 23 *** 371812.63 4.69347m(05010924)

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12.5988lm(05012424)
13.82858m(05012424)
14.62754m(05012424)
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14.41771 (06012524)
14.57891 (06012524)
12.78670 (05120724)
12.265499c(06111824)
12.85997 (05121124)
12.61594 (05121124)
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12.46202 (06111624)
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12. 27779m(05012424)
13. 70002m (05012424)
14. 89177m (05012424)
15. 33290m (05012424)
15. 33290m (05012424)
15. 32202m (05012524)
15. 25179 (06012524)
14. 12747 (06012524)
13. 10511 (05120124)
13. 61051 (05121124)
13. 66804 (05121124)
13. 27651 (05121124)
12. 95265 (05110424)
13. 29875 (07123024)
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11.60285m (05012424)
12.83715m (05012424)
13.75083m (05012424)
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13.47647 (06012524)
13.88430 (06012524)
13.3883 (06012524)
12.17557c (06111824)
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11.96414 (05120724)
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14.9138m(05012424)
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16.35190 (06012524)
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                                                             12.96290m(05012424)
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13.17343 (06012524)
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 3756979.5 | 11.38466 (06111624) 11.82378 (07123024) 3756979.5 | 11.09578 (07123024) 11.25305 (07123024) *** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5
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13.87457 (05111224)
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**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                                *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                             INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                  X-COORD (METERS)
371692.63 371722.63 371752.63 371782.63 371812.63
9.02883 (05122924)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAGE 25
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                                              *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                     ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                X-COORD (METERS)
371842.63 371872.63 371902.63 371932.63 371962.63
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$5,69699 (06062824)

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5.10476 (06071424)
5.07165 (07021124)
5.07165 (07021124)
6.27660 (06110124)
8.21805 (06110124)
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9.48140 (07020624)
10.33284 (07020624)
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10.22922 (07020624)
9.55128 (07020624)
9.64361 (07030624)
10.27144 (05122624)
12.31061 (05122624)
13.95748 (05122624)
14.59719 (05122624)
14.01978 (05122624)
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16.24757m (05012424)
17.22732m (05012424)
17.41524m (05012424)
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  3757519.5
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  3757459.5
  3757339.5
  3757309.5
 3757279.5
  3757249.5
                                                           16.54083 (06012524)
15.40511 (05120724)
15.54973 (05120724)
15.74104 (05121124)
15.38861 (05121124)
14.67150 (07123024)
14.94834 (07123024)
14.41382 (07123024)
 3757219.5
3757219.5
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3757039.5 |
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17.31170 (05120824)
16.70937 (05120824)
15.79117 (05100924)
                                               | 14.07099 (05110524) 15.37125 (0511
| 14.61144 (05111224) 15.51832 (0511
| 14.57120 (05111224) 14.96739 (0512
| - VERSION 09292 *** *** Site 14 - PM2.5
                                                                                                                                                                               15.37125 (05111224) 16.52811 (05111224) 15.51832 (05111224) 16.08181 (05120824) 14.96739 (05120824) 15.43175 (05120824)
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17.09484 (05100924)
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 3757009.5 |
3756979.5 |
  3756949.5
*** AERMOD
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15:37:05
PAGE 26
                                                                                                                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                                                                                  THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                                                                     VOL1 , AREA1
                                                                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                       ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                        X-COORD (METERS)
                                                                                                                                                                                                                               3 371902.63 371932.63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    371962.63
                                                      371842.63 371872.63
3756919.5 | 13.95603 (05120824) | 14.29284 (05120824) | 14.64336 (05100924) | 15.19707 (05100924) | 15.19714 (05100924) | 3756889.5 | 13.27469 (05120824) | 13.62721 (05100924) | 14.13736 (05100924) | 14.16664 (05100924) | 14.20293 (05122924) | 375689.5 | 12.72300 (05100924) | 13.20163 (05100924) | 13.24989 (05100924) | 13.14011 (05122924) | 13.72701 (05122924) | 375679.5 | 11.69398 (05100924) | 12.43046 (05100924) | 12.18979 (05122924) | 12.77028 (05122924) | 12.95692 (05122924) | 375679.5 | 10.74902 (05100924) | 11.1467 (05122924) | 11.90228 (05122924) | 12.13866 (05122924) | 11.95633 (05122924) | 375679.5 | 10.3994 (05122924) | 11.1467 (05122924) | 11.38624 (05122924) | 11.31448 (05122924) | 10.86374 (05122924) | 375679.5 | 10.38944 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05122924) | 10.68573 (05
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15:37:05
PAGE 27
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                                                                                                                                                                                                                                                                                         FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                  TNCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                     VOL1 , AREA1
                                                                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                         ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                         X-COORD (METERS)
                                                    A-COORD (MBIERS)
371992.63 372022.63 372052.63 372082.63 372112.63
                                                            7.47529 (06062824) 6.91018 (05082524) 6.29937 (05082524) 5.83259 (05082524) 8.30545 (06062824) 7.74223 (06062824) 7.19446 (05082524) 6.39669 (05082524) 8.85277 (06062824) 8.70040 (06062824) 8.03554 (05082524) 7.44408 (05082524) 9.0449 (06062824) 9.3795 (06062824) 9.11640 (06062824) 9.1640 (06062824) 9.1640 (06062824) 9.55592 (06062824) 7.90165 (06062824) 9.4094 (06062824) 9.94629 (06062824) 9.55592 (06062824) 7.90165 (06062824) 8.63150 (06062824) 10.35324 (06062824) 11.12939 (06062824) 6.97584m (05010924) 8.63150 (06062824) 11.2938 (06062824) 11.12939 (06062824) 6.81004 (07100124) 7.61197m (05010924) 9.45990 (06062824) 11.10773 (06062824) 7.36559 (06110124) 7.42991 (06092024) 8.32078m (05010924) 9.74331m (05010924) 9.30537 (06110124) 8.55598 (0610124) 8.27888 (07080524) 9.74331m (05010924) 9.30537 (06110124) 8.55598 (0610124) 8.27888 (07080524) 9.74331m (05010924) 9.30537 (06101024) 8.27888 (07080524) 9.74331m (05010924) 9.30537 (06101024) 8.55598 (0610124) 8.27888 (07080524) 9.74331m (05010924) 9.30637 (06101024) 8.55598 (06101024) 8.27888 (07080524) 9.74531m (05010924) 9.30637 (06101024) 8.55598 (06101024) 8.27888 (07080524) 9.74531m (05010924) 9.30637 (06101024) 8.55598 (06101024) 8.27888 (07080524) 9.74531m (05010924) 9.30637 (06101024) 8.55598 (06101024) 8.27888 (07080524) 9.3785m (05010924)   3758119.5 |
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6.02920 (05101024)
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6.45682 (05082524)
7.65849 (05082524)
8.88431 (05082524)
10.02461 (06062824)
11.21803 (06062824)
11.29812 (06062824)
12.12696 (06062824)
11.49509 (06062824)
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                                                                  6.97584m(05010924)
6.81004 (07100124)
7.36559 (06110124)
9.30637 (06110124)
10.36355 (06110124)
10.36356 (06110124)
10.49976 (07091324)
11.67701 (07020624)
14.01810 (07020624)
14.69437 (07020624)
14.069437 (07020624)
13.71345 (06041124)
16.18521 (05122624)
19.33794 (05122624)
20.66248 (05122624)
20.86999m(05012424)
                                                                                                                                                                           7.61197m(05010924)
7.42991 (06092024)
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10.36903 (06110124)
11.06002 (06110124)
11.06002 (06110124)
11.57925 (07091324)
14.39578 (07020624)
15.46616 (07020624)
14.400761 (07020624)
14.60761 (07020624)
17.20546 (05122624)
20.74679 (05122624)
22.23846 (05122624)
23.25316m(05012424)
   3757849.5
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8.27888 (07080524)

9.84754 (06110124)

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12.08541 (06090824)

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25.97932m(0501242624)
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   3757819.5
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10.25096m(05010924)
10.78751 (05021824)
12.64193 (061010124)
13.74232 (06090824)
18.22810 (07020624)
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23.97345 (05122624)
25.97932m(05012424)
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27.92127m(05012424)
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28.25773 (06012524)
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   3757459.5
                                                                      20.86999m(05012424)
                                                                                                                                                                                 23.25316m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                     29.08802m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32.62276m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                     29.08802m(05014244)
32.33837m(05012424)
32.16969m(05012424)
30.19434m(05012424)
31.24435 (06012524)
31.20896 (05121124)
31.35634 (051221124)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              35.77577m(05012424)
35.29633m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          35.29633m(05012424)
32.94820m(05012424)
34.65861 (06012524)
33.29124 (05121124)
33.79787 (05121124)
30.51397 (06123024)
30.24343 (05110524)
28.95542 (05120824)
27.81959 (05120824)
23.02810 (05100924)
21.88723 (05120924)
                                                                                                                                                                                                                                                                                                                                                                                                     29.05939 (05121124)
27.32339 (05110524)
                                                                                                                                                                                                                                                                                                                                                                                                  27.32339 (05110524)
27.13489 (05110524)
26.14112 (05120824)
24.90251 (05120824)
23.21220 (05100924)
20.97606 (05100924)
19.95101 (05122924)
18.64417 (05122924)
16.90507 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21.88723 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20.20384 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18.06649 (05122924)
15.69854 (05122924)
10/26/10
15:37:05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAGE 28
  **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                                                                                   THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                                                                     VOL1 , AREA1 ,
                                                                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                        ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                      X-COORD (METERS)
371992.63 372022.63 372052.63 372082.63 372112.63
                                                                                                                                                                        15.94594 (05122924) 15.81367 (05122924) 14.79238 (05122924) 14.14733 (05122924) 13.39662 (05122924) 12.37008 (05122924) 10.59629 (05122924) 10.32316 (05122924) 9.25773 (05112824) 8.81696 (05122924) 8.86225 (05112824) 8.34531 (05112824) 8.52432 (06120424) 7.75503 (05112824) 8.54046 (06120424) 7.756730 (06120424) 8.5710 (06120424) 7.67630 (06120424) 8.17180 (06120424)
                                                                     15.39482 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13.29680 (05122924)
11.36769 (05011824)
10.90511 (06120424)
10.80544 (06120424)
10.88064 (06120424)
10.28699 (06120424)
9.485812 (06120424)
9.40364 (06120424)
8.9199 (06120424)
8.9199 (06120424)
                                                                                                                                                                                                                                                                                                                                                                                                  12.84739 (05122924)
10.82792 (05122924)
  3756889.5
3756859.5
                                                                      14.78206 (05122924)
13.84074 (05122924)
                                                                   13.84074 (05122924)
12.67119 (05122924)
11.36950 (05122924)
10.01753 (05122924)
8.67939 (05122924)
7.82223 (05122924)
7.54980 (0512824)
7.17083 (05112824)
                                                                                                                                                                                                                                                                                                                                                                                                       10.82792 (05122924)

9.91919 (05112824)

9.66129 (06120424)

9.56860 (06120424)

9.38249 (06120424)

9.12064 (06120424)

8.79860 (06120424)

8.43097 (06120424)
  3756829.5
3756799.5
3756769.5
  3756739.5
   3756709.5
  3756679.5 |
3756649.5 |
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15:37:05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PAGE 29
   **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                                                                             FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                   *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                         ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                         X-COORD (METERS)
      r-COORD |
(METERS) |
                                                      372142.63 372172.63 372202.63 372232.63 372262.63
                                                              7.17423 (06090524) 8.62312 (06090524) 9.71299 (06090524) 10.47865 (06090524) 11.59035 (06090524) 6.81651 (06090524) 8.50701 (06090524) 9.85875 (06090524) 10.86091 (06090524) 11.59035 (06090524) 6.59135 (07030924) 8.27479 (06090524) 9.91482 (06090524) 11.17991 (06090524) 12.16538 (06090524) 6.68523 (07030924) 7.91379 (06090524) 9.86128 (06090524) 11.47991 (06090524) 12.68513 (06090524) 9.86128 (06090524) 11.88266 (06090524) 12.68513 (06090524) 9.27217 (05082524) 7.47154 (07030924) 9.367309 (06090524) 11.68256 (06090524) 13.14424 (06090524) 9.27217 (05082524) 9.64459 (05082524) 9.32250 (06090524) 11.62352 (06090524) 13.3373 (06090524) 11.94110 (06062824) 11.27828 (05082524) 8.79173 (05090524) 11.591079 (06090524) 13.83756 (06090524) 11.94110 (06062824) 11.27828 (05082524) 10.02175 (05082524) 11.19902 (06090524) 14.02449 (06090524) 12.94612 (06062824) 12.74612 (06062824) 11.373179 (05082524) 10.64352 (06090524) 14.02449 (06090524) 12.76556 (06062824) 14.63770 (06062824) 15.27641 (06062824) 14.80770 (06062824) 12.7741 (05062824) 14.62780 (06090524) 14.80770 (06062824) 12.77180 (05009024) 14.63770 (06062824) 15.27641 (06062824) 14.8067 (06062824) 14.0210 (06062824) 14.5770 (06062824) 15.27641 (06062824) 14.8067 (06062824) 14.80770 (06062824) 11.57967 (07080524) 13.80907m (05010924) 16.08837 (06062824) 18.16253 (06062824) 18.78707 (06062824) 11.57967 (07080524) 13.50979 (05021824) 15.57664 (05021824) 18.51913m (05010924) 21.84353m (05010924
    3757969.5
   3757969.5
3757939.5
3757909.5
3757879.5
3757849.5
3757789.5
3757819.5 | 12.76556 (00062824) | 14.63770 (00062824) | 3757789.5 | 12.17713m(05010924) | 14.26918 (06062824) | 3757789.5 | 11.57967 (07080524) | 13.80907m(05010924) | 3757729.5 | 11.57967 (07080524) | 13.80907m(05010924) | 3757699.5 | 14.70339 (05021824) | 13.55079 (05021824) | 3757699.5 | 14.70339 (05021824) | 13.55079 (05021824) | 3757669.5 | 14.70339 (05021824) | 17.92232 (05021824) | 3757669.5 | 18.51706 (07020624) | 29.76240 (05021824) | 3757699.5 | 18.51706 (07020624) | 29.8200 (07020624) | 3757549.5 | 22.4685 (07020624) | 24.68168 (07020624) | 3757549.5 | 22.4685 (07020624) | 26.14638 (07020624) | 3757549.5 | 23.09705 (07020624) | 26.14638 (07020624) | 3757499.5 | 36.562 (05122624) | 31.34504 (05122624) | 3757499.5 | 36.56457m(05012424) | 41.2758m(05012424) | 3757499.5 | 36.64457m(05012424) | 44.38822m(05012424) | 3757399.5 | 37.5434 (06012524) | 42.72509 (06012524) | 3757399.5 | 37.5434 (06012524) | 42.72509 (06012524) | 3757399.5 | 37.15434 (06012524) | 42.72509 (06012524) | 375729.5 | 38.50546 (06012524) | 42.72069 (06012524) | 375729.5 | 38.50546 (06012524) | 42.7269 (06012524) | 375729.5 | 38.50546 (06012524) | 42.7269 (06012524) | 375729.5 | 38.50546 (06012524) | 42.7269 (06012524) | 375729.5 | 38.50546 (06012524) | 42.7269 (06012524) | 375729.5 | 38.50546 (06012524) | 42.7269 (06012524) | 375729.5 | 38.50546 (06012524) | 43.5847 (06123024) | 375729.5 | 34.25847 (06123024) | 37.42674 (06123024) | 375719.5 | 32.28349 (06123024) | 37.54674 (06123024) | 375719.5 | 32.28349 (06123024) | 32.54081 (05122824) | 3757099.5 | 22.54291 (05122924) | 22.66877 (05122924) | 3757099.5 | 22.54291 (05122924) | 22.66877 (05122924) | 3757099.5 | 22.54291 (05122924) | 22.66877 (05122924) | 3757099.5 | 24.09377 (05122924) | 26.6877 (05122924) | 3757099.5 | 24.09377 (05122924) | 26.6877 (05122924) | 3757099.5 | 24.09377 (05122924) | 26.6877 (05122924) | 3757099.5 | 24.09377 (05122924) | 26.6877 (05122924) | 3757099.5 | 24.09377 (05122924) | 26.6877 (05122924) | 3757099.5 | 24.09377 (05122924) | 27.26748 (05122924) | 375
                                                                                                                                                                                                                                                                                         16.08837 (06062824)
15.85940m(05010924)
16.65127 (05021824)
19.51525 (05021824)
22.15564 (05021824)
24.2596 (07020624)
24.2596 (07020624)
34.79422 (05122624)
39.83112m(05012424)
46.78180m(05012424)
49.68913m(05012424)
49.68913m(05012424)
49.38954 (05121244)
49.38954 (05121244)
44.98256 (06123024)
34.75619 (06123024)
34.75619 (06123024)
37.76730 (05120824)
37.47030 (05120824)
37.47030 (05120824)
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18.43166m(0502824)
18.51913m(05010924)
20.98219 (05021824)
24.73562 (05021824)
27.86445 (05021824)
30.07135 (05021824)
31.59195 (07020624)
40.63799 (0712524)
46.64893m(05012424)
57.37389m(05012424)
57.37389m(05012424)
57.37389m(05012424)
57.49285 (05012524)
56.28900 (0512124)
56.28900 (0512124)
51.63204 (05123024)
47.52772 (05120824)
43.70062 (05120824)
43.70062 (05120824)
37.69321 (05122824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18.78/07 (06062824)
20.67598 (06062824)
21.804353m (05010924)
22.17037 (05021824)
23.30822 (05021824)
32.22107 (05021824)
38.56453 (07020624)
48.53065 (07112524)
55.90179 (06010124)
62.81985m (05012424)
66.64090m (05012424)
66.626197m (05012424)
65.03752 (051212124)
61.49184 (06123234)
51.82584 (06123234)
51.82584 (05120824)
42.44070 (05120824)
37.05290 (05122924)
37.05290 (05122924)
                                                                                                                                                                                                                                                                                                                                                                                                    37.69321 (05120824)
32.96914 (05122924)
28.27079 (05122924)
23.44710 (05122924)
23.44710 (05122924)
19.03436 (06120424)
17.10330 (06120424)
15.90455 (06120424)
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32.50021 (05120824)
29.54657 (05122924)
25.92322 (05122924)
21.97394 (05122924)
18.44063 (05011824)
16.52762 (06120424)
16.11403 (06120424)
15.46113 (06120424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               37.05290 (05122924)
30.94764 (05122924)
26.56962 (05011824)
23.28860 (05011824)
21.73239 (06120424)
20.28558 (06120424)
17.04996 (06120424)
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15:37:05
                                                                                                                                                                                                                                                                                           FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                             1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                      VOL1 , AREA1 ,
                                                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                         ** CONC OF PM2.5 IN MICROGRAMS/M**3
      Y-COORD | X-COORD (METERS)
(METERS) | 372142.63 372172.63 372202.63 372232.63 372262.63
                                                                                                                                                                                                                                                                      X-COORD (METERS)
                                                                                                                                                                           13.84423 (06120424) 14.64274 (06120424)
13.33451 (06120424) 13.72296 (06120424)
12.69921 (06120424) 12.75250 (06120424)
11.98214 (06120424) 11.76869 (06120424)
11.21839 (06120424) 10.79716 (06120424)
11.21839 (06120424) 9.85612 (06120424)
9.65140 (06120424) 9.85612 (06120424)
9.65140 (06120424) 9.31908 (05020424)
8.88272 (06120424) 9.14580 (05020424)
8.15507 (06010524) 8.91284 (05020424)
8.15507 (06010524) 8.91284 (05020424)
Site 14 - PMZ.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14.13862 (06010524)
12.93921 (06010524)
12.35095 (05020424)
11.86424 (05020424)
11.32357 (05020424)
10.74542 (05020424)
10.14628 (05020424)
9.53983 (05020424)
8.93781 (05020424)
8.34945 (05020424)
  14.65277 (06120424)
13.39994 (06120424)
12.17931 (06120424)
11.23471 (06010524)
                                                                                                                                                                                                                                                                                                                                                                                              11.23471 (06010524)

10.71874 (05020424)

10.41540 (05020424)

10.05198 (05020424)

9.64258 (05020424)

9.20124 (05020424)

8.74029 (05020424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10/26/10
15:37:05
   **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                                                              FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                   *** THE \phantom{a} 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \phantom{a} VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                     INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                        VOL1 , AREA1
                                                                                                                                                    *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                      ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                  X-COORD (METERS)
      (METERS) 372292.63 372322.63 372352.63 372382.63 372412.63
                                                                                                                                                                                                                                                                                       9.69418 (06090524) 9.08890 (06091124)
10.68456 (06090524) 9.75897 (06091124)
11.82246 (06090524) 10.48358 (06091124)
13.10776 (06090524) 11.56006 (06090524)
14.53068 (06090524) 12.93593 (06090524)
16.07079 (06090524) 14.53209 (06090524)
17.70344 (06090524) 16.35114 (06090524)
19.40965 (06090524) 18.38082 (06090524)
121.17531 (06090524) 20.60465 (06090524)
23.00167 (06090524) 23.01389 (06090524)
24.9156 (06090524) 25.61640 (06090524)
26.8880 (06090524) 28.45034 (06090524)
29.03176 (06090524) 31.59662 (06090524)
                                                                 11.07909 (06090524)
11.94395 (06090524)
12.80495 (06090524)
13.64219 (06090524)
                                                                                                                                                                             10.63448 (06090524)
11.65378 (06090524)
12.75112 (06090524)
13.90307 (06090524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9.65639 (07050924)
10.07930 (07050924)
10.53981 (07050924)
11.06674 (06091124)
   3758119.5 |
3758089.5 |
3758059.5 |
3758029.5 |
                                                                                                                                                                               13.90307 (06090524)

15.08386 (06090524)

16.27061 (06090524)

17.44404 (06090524)

19.71470 (06090524)

19.71470 (06090524)

20.80306 (06090524)

21.84870 (06090524)

22.82580 (06090524)

23.67936 (06090524)
                                                                       14.43853 (06090524)
15.18546 (06090524)
    3757999.5
3757969.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.04748 (06091124)
13.13071 (06091124)
                                                              15.18546 (06090524)
15.87547 (06090524)
16.50305 (06090524)
17.05297 (06090524)
17.49346 (06090524)
17.76249 (06090524)
17.75500 (06090524)
18.96170 (06062824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13.13071 (06091124)
14.32941 (06091124)
16.19795 (06090524)
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27.98618 (06090524)
32.01990 (06090524)
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3757939.5
3757909.5
3757879.5
    3757849.5
     3757819.5
    3757789.5
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35.20880 (06090524)
39.55286 (06090524)
45.17689 (06090524)
53.64630 (06090524)
68.88758 (06090524)
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250.70799 (06121424)
272.17952 (07112524)
281.24043 (07112524)
                                                                                                                                                                                                                                                                      31.35463 (06090524)
33.93021 (06090524)
36.93395 (06090524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            36.72536 (06090524)
42.42905 (06090524)
49.78608 (06090524)
60.47707 (06090524)
 3757729.5 |
3757699.5 |
                                                                 21.73378 (06062824)
24.48801m(05010924)
                                                                                                                                                                     24.29070 (06090524)
26.53475 (06062824)
                                                                 24.48801m(05010924)
26.71278m(05010924)
29.61508 (05021824)
37.19207 (05021824)
43.83126 (05021824)
47.51947 (05021824)
60.23099 (07112524)
69.34350 (07112524)
                                                                                                                                                               26.53475 (U0002824)
30.62401m(05010924)
34.40471m(05010924)
42.52062 (05021824)
54.75404 (05021824)
61.97831 (05021824)
80.19926 (07112524)
92.89175 (07112524)
92.89175 (07112524)
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94.70687 (05121824)
94.70687 (05121824)
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79.74685 (05120824)
50.59041 (06121824)
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36.24885 (05121824)
36.2781 (06010524)
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28.01781 (06010524)
22.37209 (06010524)
                                                                                                                                                                      30.62401m(05010924)
   3757669.5
                                                                                                                                                                                                                                                                36. 93395 (06090524)
40. 94539m(05010924)
49. 03774m(05010924)
49. 03774m(05010924)
92. 35810 (07112524)
132. 43518 (07112524)
133. 78544 (07112524)
143. 78544 (07112524)
134. 41853 (07112524)
137. 42806 (07112524)
131. 03895 (05111724)
131. 03895 (0511724)
131. 03895 (051120824)
81. 39355 (051210824)
83. 39355 (05121824)
43. 07683 (06121824)
43. 07683 (06121824)
36. 45047 (06010524)
27. 73381 (06010524)
24. 17368 (06010524)
24. 17368 (06010524)
21. 07364 (06010524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     49. 78608 (06090524)
79. 64092 (06090524)
130. 16376 (06090524)
275. 20270 (06121424)
295. 05621 (06121424)
295. 05621 (06121424)
303. 06241 (05120824)
307. 56247 (05120824)
307. 56247 (05120824)
307. 56247 (05120824)
319. 94282 (05011824)
4297. 59681 (05120824)
30. 10542 (07081524)
42. 70586 (07081524)
43. 71510 (07081524)
44. 75345 (07081524)
44. 75345 (07081524)
37. 82086 (07081524)
37. 82086 (07081524)
37. 82086 (07081524)
35. 14387 (07081524)
32. 83570 (07081524)
   3757639.5
                                                                                                                                                                                                                                                                        40.94539m(05010924)
   3757519.5
                                                               69.34350 (07112524)
75.16148m(05012424)
75.16148m(05012424)
78.30438m(05012424)
75.81658 (05121124)
74.61583 (05121124)
70.62420 (06123024)
62.97928 (05120824)
52.75530 (05120824)
52.75530 (05120824)
52.135891 (05011824)
30.64032 (05011824)
26.54833 (06120424)
24.51310 (06120424)
22.33654 (06120424)
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287.09006 (07112524)

289.45026 (05120824)

304.66508 (05120824)

296.29545 (05120824)

115.62018 (05011824)

84.06138 (05011824)

50.64336 (05011824)

41.59026 (06010524)

32.78865 (07081524)

32.78865 (07081524)

30.24801 (07081524)

28.14754 (07081524)

28.14754 (07081524)

26.37661 (07081524)
   3757489.5
  3757459.5
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  3757399.5
3757369.5
3757339.5
   3757309.5
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   3757219.5
3757219.5
3757189.5
3757159.5
 3757099.5 | 24.51510 (06120424) | 25.07634 (06010524) | 3757069.5 | 22.33564 (06120424) | 22.37209 (06010524) | 3757039.5 | 20.27257 (06010524) | 19.91923 (06010524) | 3756099.5 | 18.40444 (06010524) | 17.71666 (06010524) | 3756979.5 | 16.66372 (06010524) | 16.36684 (05020424) | 3756949.5 | 15.05951 (06010524) | 15.30042 (05020424) | *** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5
                                                                                                                                                                                                                                                                     21.07364 (06010524)
18.78664 (05020424)
17.29649 (05020424)
15.84978 (05020424)
14.45747 (05020424)
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26.37661 (07081524)
24.85890 (07081524)
23.53978 (07081524)
22.37778 (07081524)
21.34171 (07081524)
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32.83570 (07081524)
30.81809 (07081524)
29.03030 (07081524)
27.42705 (07081524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15:37:05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PAGE 32
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                       FLAT
                                                                                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                                                        *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                             ** CONC OF PM2.5 IN MICROGRAMS/M**3
    (METERS)
                                                  372292.63 372322.63 372352.63 372382.63 372412.63
                                                                                                                                                               14.22859 (05020424) 13.50487 (07081524)
13.16728 (05020424) 13.20563 (07081524)
12.13221 (05020424) 12.91651 (07081524)
11.13834 (05020424) 12.63549 (07081524)
10.19597 (05020424) 12.53599 (07081524)
                                                                 14.23062 (05020424)
13.49397 (05020424)
12.71994 (05020424)
11.92667 (05020424)
11.13112 (05020424)
   3756889.5
3756859.5
3756859.5
3756829.5
3756799.5
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19.55296 (07081524)
18.76510 (07081524)
18.03090 (07081524)
17.34085 (07081524)
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24.64325 (07081524)
23.41663 (07081524)
22.27953 (07081524)
21.22078 (07081524)
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20.23313 (07081524)
19.31050 (07081524)
18.44810 (07081524)
17.64206 (07081524)
16.88880 (07081524)
10/26/10
15:37:05
 12.35999 (07081524)
12.08863 (07081524)
11.81956 (07081524)
11.55102 (07081524)
11.28246 (07081524)
11.01346 (07081524)
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16.68789 (07081524)
16.06673 (07081524)
15.47401 (07081524)
14.90729 (07081524)
14.36503 (07081524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAGE 33
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                                                      *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol.1 \, , AREAl \, ,
                                                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                         ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                 X-COORD (METERS)
372442.63 372472.63 372502.63 372532.63 372562.63
                                                                                                                                                              10.51785 (07050924)
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11.49780 (07050924)
12.04946 (07050924)
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291.32045 (06121424)
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55.11313 (07083124)
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12.63861 (07050924)
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13.50995 (07083124)
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3757729.5
   3757699.5
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143.00325 (05082924)
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284.61169 (07013024)
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245.62059 (07013024)
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3757459.5
3757429.5
3757399.5
3757369.5
3757339.5
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   3757279.5
   3757249.5
3757219.5
3757189.5
   3757159.5
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42.56737 (07081524)
39.54642 (07081524)
   3757129.5
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  3757099.5
                                                                  41.94388 (07081524)
                                                                                                                                                                                                                                                                       40.21853 (07081524)
37.15170 (07081524)
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32.26827 (07081524)
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23.65600 (07081524)
   3757069.5
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         /57069.5 39.05286 (07081524) 39.54642 (0708

/57039.5 36.50009 (07081524) 36.85869 (0708

/57039.5 34.21661 (07081524) 34.44906 (0708

/56979.5 32.15361 (07081524) 32.27970 (0708

/56949.5 30.27429 (07081524) 30.32054 (0708

** AERMOD - VERSION 09292 *** Site 14 - PM2.5
                                                                                                                                                                                                                                                                   37.15170 (07081524)
34.49710 (07081524)
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30.14991 (07081524)
28.35149 (07081524)
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22.09358 (07081524)
20.74655 (07081524)
19.57140 (07081524)
18.53558 (07081524)
   3757009.5
3757009.5
3756979.5
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34.44906 (07081524)
32.27970 (07081524)
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29.97068 (07081524)
27.98947 (07081524)
26.26061 (07081524)
24.73664 (07081524)
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  3756949.5
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15:37:05
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**MODELOPTS: NonDFAULT CONC
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                                                                                                                             *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                        ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                   X-COORD (METERS)
     Y-COORD
                                                                         372442.63 372472.63
                                                                                                                                                                                                                          3 372502.63 372532.63 372562.63
                                                                                                                                                                     28.54846 (07081524) 26.74887 (07081524) 26.94317 (07081524) 25.31126 (07081524) 25.48651 (07081524) 24.01319 (07081524) 24.9547 (07081524) 22.95477 (07081524) 21.75799 (07081524) 21.85215 (07081524) 20.77083 (07081524) 20.84197 (07081524) 19.66128 (07081524) 19.05793 (07081524) 19.05793 (07081524) 19.05793 (07081524) 19.05793 (07081524) 19.32893 (07081524) 19.32893 (07081524) 19.32893 (07081524) 18.23979 (07081524)
3756919.5 | 28.55471 (07081524) 28.54846 (07081524)
3756889.5 | 26.97534 (07081524) 26.94317 (07081524)
375689.5 | 25.52267 (07081524) 25.48651 (07081524)
3756799.5 | 24.18554 (07081524) 22.95477 (07081524)
3756799.5 | 22.95437 (07081524) 22.95477 (07081524)
3756799.5 | 21.82056 (07081524) 21.85215 (07081524)
3756799.5 | 20.77612 (07081524) 21.85215 (07081524)
3756709.5 | 19.81311 (07081524) 21.8137 (07081524)
3756799.5 | 18.92462 (07081524) 19.91338 (07081524)
3756799.5 | 18.10405 (07081524) 18.2698 (07081524)
3756679.5 | 18.10405 (07081524) 18.2698 (07081524)
3756679.5 | 18.10405 (07081524) 18.2698 (07081524)
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22.16503 (07081524)
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16.1206 (07081524)
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16.78873 (07081524)
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14.17968 (07081524)
13.65525 (07081524)
13.16880 (07081524)
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                                                                                                                                                                                                                                                                         18.23979 (07081524)
17.51350 (07081524)
  **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                                                    FLAT
NODRYDPLT NOWETDPLT
                                                                                                                              *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                             INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                               VOL1 , AREA1
                                                                                                                                                                   ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                          X-COORD (METERS)
     Y-COORD
                                                                        X-COORD (METERS)
372592.63 372622.63 372652.63 372682.63 372712.63
     (METERS)
                                                           372592.63

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12.07388 (05052624)
12.07388 (05052624)
13.46758 (07071524)
15.27517 (07071524)
16.97794 (07071524)
18.52013 (07071524)
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11.12216 (07083124)
11.31192 (07083124)
12.01259 (05052624)
 3758119.5 | 3758089.5 | 3758059.5 | 3758029.5 | 3757999.5 | 3757969.5 | 3757909.5 | 3757909.5 |
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12.97812 (05052624)
13.95362 (05052624)
14.91550 (05052624)
15.83108 (05052624)
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16.20071 (05052624)
17.64300 (05052624)
19.10596 (05052624)
21.15496 (07071524)
23.99645 (07071524)
30.46186 (07071524)
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47.41144 (06101024)
82.25638 (06101024)
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66.57031 (06051424)
40.96257 (06051424)
41.223588 (05040924)
22.35868 (05040924)
23.86062 (05040924)
23.86062 (05040924)
20.03766 (05540924)
17.86353 (05103234)
16.69369 (05120324)
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15.38209 (05120324)
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15.93108 (05052624)
17.75133 (07071524)
19.86461 (07071524)
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23.91695 (07071524)
28.50410 (07031824)
34.19876 (07071524)
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46.94619 (06101024)
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58.95525 (05102324)
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48.7457 (05060724)
21.81895 (050512424)
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18.68883 (07083124)
19.49761 (07083124)
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21.17545 (07083124)
23.38994 (0505624)
26.39927 (07071524)
30.71569 (07071524)
35.99410 (07071524)
42.29717 (07071524)
42.29717 (07071524)
10.89415 (06101024)
101.180118 (06101024)
104.80118 (06101024)
101.14842 (06101024)
101.14842 (06101024)
95.70907 (05102324)
92.62402 (05102324)
90.77497 (06051424)
86.76351 (06051424)
46.28468 (05040924)
38.19196 (05040924)
38.19196 (05040924)
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18.52013 (07071524)
19.84381 (07071524)
20.87618 (07071524)
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24.42768 (07092824)
24.751262 (06101024)
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59.28257 (06101024)
59.49622 (06101024)
51.15882 (06101024)
50.17696 (05081824)
49.30282 (05103234)
46.83186 (06060724)
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46.83186 (06060724)
46.09614 (06060724)
43.26555 (06051424)
39.25953 (06051424)
32.70681 (06051424)
25.98530 (06051424)
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   3757429.5
 3757399.5
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30.89009 (05040924)
24.93876 (05040924)
22.74397 (05120324)
21.45496 (05120324)
20.06002 (05120324)
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20,22303 (05012924)
18,08083 (05012924)
15,69370 (05040924)
13,84115 (05040924)
11,77276 (05061324)
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   3757279.5
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3757219.5
3757219.5
 3757099.5 | 18.27612 (U5140324) | 17.375 (U5120324) | 3757069.5 | 16.34296 (D5120324) | 15.76521 (D5120324) | 3757039.5 | 14.59027 (D5120324) | 14.38784 (D5120324) | 3757009.5 | 13.02361 (D5120324) | 13.07760 (D5120324) | 3756979.5 | 11.64234 (D5120324) | 11.85583 (D5120324) | 3756949.5 | 10.98048 (D7081524) | 10.73722 (D5120324) | *** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5
                                                                                                                                                                                                                                                                        15.38209 (05120324)
14.52598 (05120324)
13.60264 (05120324)
12.64592 (05120324)
11.68711 (05120324)
10.75203 (05120324)
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11.10264 (05120324)
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9.73713 (05120324)
10/26/10
15:37:05
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 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                                                                              *** THE \: 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \: VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \: VOL1 \: , AREA1 \: ,
                                                                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                  X-COORD (METERS)
                                                                   10.67371 (07081524) 9.72855 (05120324) 9.86223 (05120324) 10.38418 (07081524) 8.95017 (07120824) 9.03350 (05120324) 10.11116 (07081524) 8.54758 (07120824) 8.27306 (05120324) 9.85239 (07081524) 8.14564 (07120824) 7.58498 (05120324) 9.60835 (07081524) 7.75120 (07120824) 7.32327 (07120824) 9.37684 (07081524) 7.37054 (07120824) 7.08408 (07120824) 9.15664 (07081524) 7.0722 (07120824) 7.08408 (07120824) 7.0722 (07120824) 7.08408 (07120824)
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9.02587 (05120324)
8.35488 (05120324)
7.72119 (05120324)
7.13233 (05120324)
  3756919.5
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8.76847 (05120324)
8.23865 (05120324)
7.70569 (05120324)
7.18507 (05120324)
6.68779 (05120324)
 3756889.5
3756859.5
3756829.5
3756799.5
                                                                                                                                                                                                                                                                        7.32327 (07120824)
7.08408 (07120824)
6.83401 (07120824)
6.58040 (07120824)
6.32887 (07120824)
6.08317 (07120824)
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  3756739.5
                                                                          9.15664 (07081524)
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375679.5 8.94553 (07081524) 7.00725 (07120824) 375679.5 8.74450 (07081524) 6.66331 (07120824) 3756679.5 8.74430 (07081524) 6.33905 (07120824) *** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5 ***
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5.69566 (07120824)
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10/26/10
15:37:05
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 **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
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1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL

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*** THE 1ST HIGHEST 24-
INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                  , AREA1
                                                                                                                                                                                                                                                         VOL1
                                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                   ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                 X-COORD (METERS)
     Y-COORD
                                                                       372742.63 372772.63 372802.63 372832.63 372862.63
    (METERS)
                                                                                                                                                                       9.40855 (05052624) 10.50977 (07071524) 10.43871 (07071524) 11.61406 (07071524) 11.79571 (07071524) 12.56120 (07071524) 13.04600 (07071524) 13.28480 (07071524) 13.72419 (07071524) 13.72419 (07071524) 13.72419 (07071524)
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10.49247 (05052624)
10.89553 (05052624)
11.79582 (07071524)
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11.30688 (07071524)
11.15772 (07071524)
10.72128 (07071524)
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3757999.5
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13.72419 (07071524)

13.83013 (07071524)

13.57977 (07071524)

13.00304 (07071524)

14.64497 (07092824)

16.91540 (07092824)

18.91115 (07092824)
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17.71039 (07071524)
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52.73650 (06101024)
46.27184 (06101024)
43.86791 (05081824)
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10.58752 (07092824)

12.27120 (07092824)

13.86099 (07092824)

15.9516 (07092824)

15.95246 (07092824)

20.74927 (06101024)

26.71637 (06101024)

31.86580 (06101024)

34.9184 (06101024)

34.9184 (06101024)

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22.23967 (06101024)

27.99353 (05081824)

29.23163 (05081824)

28.71493 (05081824)

26.05253 (05081824)
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14.94234 (07071524)
15.45267 (07071524)
15.59717 (07071524)
15.36103 (07071524)
16.15885 (07092824)
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11.45280 (07031824)
13.36493 (07092824)
15.25663 (07092824)
16.85312 (07092824)
17.94578 (07092824)
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18.91115 (07092824)
20.96175 (06101024)
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42.44340 (06101024)
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31.30656 (05081824)
32.13062 (05102324)
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18.95022 (0605112424)
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15.18001 (060512424)
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42.70585 (06101024)
39.00525 (06052024)
39.28595 (05081824)
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24.33289 (06101024)
31.04437 (06101024)
36.30489 (06101024)
37.44685 (06101024)
37.59342 (06101024)
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43.74619 (05081824)
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37.33015 (06060724)
32.33196 (06051424)
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14.92234 (05070424)
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11.16693 (05012924)
9.33750 (05012924)
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8.12883 (05012924)
7.35806 (05040924)
6.72137 (05040924)
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22.50723 (06060724)
19.13309 (06060724)
15.48668 (07110724)
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13.53178 (05070424)
13.09218 (05070424)
12.03089 (06051424)
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9.96282 (05012924)
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3756979.5 8.92693 (05061324) 8.19163 (05061324) 3756949.5 8.72125 (05120324) 7.91743 (05061324) *** *** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5
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7.26894 (07021324)
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6.33513 (06071724)
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15:37:05
PAGE 38
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                          INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                        VOL1 , AREA1
                                                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                  X-COORD (METERS)
    Y-COORD
    r-COORD |
(METERS) |
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 3756819.5 | 8.52426 (05120324) 7.57642 (05061324) 7.14640 (07021324) 6.45502 (07021324) 5.92346 (06071724) 3756889.5 | 8.24061 (05120324) 7.44269 (05120324) 6.89217 (07021324) 6.45061 (07021324) 5.71885 (07021324) 3756859.5 | 7.89283 (05120324) 7.30074 (05120324) 6.53282 (07021324) 6.32118 (07021324) 5.79885 (07021324) 375689.5 | 7.50329 (05120324) 7.08577 (05120324) 6.48651 (05120324) 6.08714 (07021324) 5.76441 (07021324) 375679.5 | 7.09088 (05120324) 6.81629 (05120324) 6.33987 (05120324) 5.77147 (07021324) 5.62550 (07021324) 375679.5 | 6.67142 (05120324) 6.51020324) 6.51020324) 6.105120324) 5.56156 (05120324) 5.41272 (07021324) 375679.5 | 6.25770 (05120324) 5.84841 (05120324) 5.59850 (05120324) 5.56860 (05120324) 5.18469 (07021324) 375679.5 | 5.85990 (05120324) 5.84841 (05120324) 5.71248 (05120324) 5.43494 (05120324) 5.00942 (05081524) 375669.5 | 5.48138 (05120324) 5.59850 (07021324) 5.71248 (05120324) 5.2616 (05120324) 5.00942 (05081524) 375669.5 | 5.18822 (05120324) 5.84813 (05120324) 5.47128 (05120324) 5.06148 (05120324) 4.94865 (05081524) **** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5
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15:37:05
                                                                                                                                                                                                                                                                             FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                    1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                          INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                        VOL1 , AREA1
                                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                       X-COORD (METERS)
    Y-COORD
                                                                     372892.63 372922.63 372952.63 372982.63 373012.63
                                                                10.25476 (07071524) 8.72879 (07071524) 6.92592 (07071524) 7.09932 (07092824) 7.69156 (07092824) 9.90837 (07071524) 8.05363 (07071524) 7.50466 (07031824) 8.14606 (07092824) 8.57285 (07092824) 9.32122 (07071524) 8.01414 (07031824) 8.65233 (07092824) 9.14228 (07092824) 9.25528 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (07092824) 9.27379 (070
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15: 37:05
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6.51662 (07092724)
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    **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                                         *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                             ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                      X-COORD (METERS)
        Y-COORD
                                                    372892.63 372922.63
       Y-COORD |
(METERS) |
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                                                                                                                                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
   **MODELOPTS: NonDEAULT CONC
                                                                                                                        *** THE 1ST HIGHEST 24-HR F
INCLUDING SOURCE(S):
                                                                                                                                                                 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                 VOL1 , AREA1 ,
                                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                X-COORD (METERS)
                                                      373042.63 373072.63 373102.63 373132.63 373162.63
                                                              6.83445 (07092824)

8.04075 (06101024)

9.92466 (06101024)

11.84067 (06101024)

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17.02766 (06101024)

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*** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5
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15:37:05
    **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                                         *** THE 1ST HIGHEST 24-
INCLUDING SOURCE(S):
                                                                                                                                                                1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                                                , AREA1
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VOI-1

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 X-COORD (METERS) 373102.63 373132.63 Y-COORD 5.80107 (05012924) 5.91421 (05082324) 6.23939 (05082324) 6.30247 (05082324) 5.48005 (05012924) 5.38753 (05012924) 5.48109 (05082324) 5.82618 (05082324) 5.04677 (05012924) 5.09425 (05012924) 5.01995 (05012924) 5.08815 (05082324) 5.23605 (07092724) 4.73131 (05012924) 4.69150 (05012924) 5.1349 (07092724) 4.96539 (07092724) 4.57113 (05012924) 4.44443 (05012924) 4.69352 (07092724) 4.96539 (07092724) 4.45281 (07092724) 4.44443 (05012924) 4.43131 (06071724) 4.5957 (07092724) 4.70167 (07092724) 4.19184 (07092724) 4.43131 (06071724) 4.38717 (07090824) 4.28975 (07092724) 4.88717 (07090824) 4.23317 (06071724) 3.93045 (07092724) 4.28895 (07092724) 5.09634 (07090824) 4.65432 (07090824) 4.05532 (06071724) 3.85882 (07092724) 3.85882 (07092724) 3.8500 (07092724) 4.28975 (07092724) 4.02532 (06071724) 3.85882 (07092724) 3.8500 (07092724) 4.28975 (07092724 3756919.5 | 6.11194 (05082324) 6.11194 (05082324) 5.93842 (05082324) 5.44529 (05082324) 4.73087 (05082324) 4.39660 (05012924) 4.16900 (05012924) 3.94862 (07092724) 3756889.5 3756859.5 3756829.5 3756799.5 3756769.5 3756(99.5) 4.09352 (07092/24) 4.9037/ (070)
3756(739.5) 4.43131 (06071724) 4.55796 (070)
3756(79.5) 4.48107 (07090824) 4.16026 (060)
37566(9.5) 4.88717 (07090824) 4.23317 (060)
3756649.5 5.09634 (07090824) 4.65432 (070)
*** AERMOD - VERSION 09292 *** ** Site 14 - PM2.5 3.94862 (07092724) 4.24369 (07092724) 4.31813 (07092724) 4.15566 (07092724) 10/26/10 15:37:05 PAGE 43 4.28895 (U/U92,21, 3.85882 (07092724) *** **MODELOPTs: NonDFAULT CONC NODRYDPLT NOWETDPLT 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 , *** DISCRETE CARTESIAN RECEPTOR POINTS *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 X-COORD (M) Y-COORD (M) 372149.67 3757202.57 372734.43 3757083.57 372767.26 3757192.31 372371.27 3757725.77 CONC (YYMMDDHH) 33.94385 (06123024) 10.44637 (05061324) 14.82246 (05012924) 372371.27 3757725.77 *** AERMOD - VERSION 09292 *** 34.61690 (06090524) *** Site 14 - PM2.5 10/26/10 15:37:05 **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID 1ST HIGHEST VALUE IS
2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
7TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS 207.95578 AT (372472.63, 3757459.46, 207.34234 AT (372472.63, 3757489.46, 206.02425 AT (372472.63, 3757489.46, 205.87548 AT (372442.63, 3757489.46, 205.17198 AT (37242.63, 3757459.46, 204.5469 AT (372472.63, 3757459.46, 204.06914 AT (372472.63, 3757429.46, 203.86094 AT (372442.63, 3757489.46, 202.38516 AT (372502.63, 3757489.46, 202.38516 AT (372502.63, 3757519.46, 201.79969 AT (372472.63, 3757519.46, 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 0.00) UCARTI UCARTI 0.00) UCART1 10.00, 10.00, 0.00) GC UCART1 10.00. 10.00. 0.00) GC UCART1 10.00. 10.00 0.00) GC IICART1 0.00) 0.00) 0.00) *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5 15:37:05 PAGE 45 **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE SUMMARY OF HIGHEST 24-HR RESULTS *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) HIGH 1ST HIGH VALUE IS 307.56247 ON 05120824: AT (372412.63, 3757399.46, 10.00, 10.00, 0.00) GC UCART1 ALL *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 14 - PM2.5 10/26/10 15:37:05 PAGE 46 **MODELOPTS: NonDFAULT CONC NODRYDPLT NOWETDPLT *** Message Summary : AERMOD Model Execution *** ----- Summary of Total Messages -----A Total of A Total of A Total of 0 Fatal Error Message(s) 0 Warning Message(s) 152 Informational Message(s) 26280 Hours Were Processed 15 Calm Hours Identified A Total of 137 Missing Hours Identified (0.52 Percent) ****** FATAL ERROR MESSAGES ******

*** NONE

******	WARNING MESS	AGES ******
	*** NONE *	**
******	******	******
*** AERMOI	Finishes Suc	cessfully ***

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.5.0

** Lakes Environmental Software Inc.

** Date: 6/29/2010

** File: C:\Documents and Settings\ssilverman\Desktop\Site 15\CO.ADI

**
 ***********
 ** AERMOD Control Pathway

***

**

**
CO STARTING
     STARTING
TITLEONE Site 15 - CO
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 8
POLLUTID CO
      RUNORNOT RUN
CO FINISHED
 *********
 ** AERMOD Source Pathway
***
**
**
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION AREA1 AREA 372695.400 3757574.990 0.0

** DESCRSKC Exhuast

** Source Parameters **
SRCPARAM AREA1 0.00001353 4.100 135.440 299.009 0.000
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED

**
 ********
** AERMOD Receptor Pathway
**
RE STARTING
GRIDCART UCART1 STA
XYINC 371970.44 50 30.00 3756971.30 50 30.00
GRIDCART UCART1 END
** DESCREC "" ""
     DESCREC "" "" 37292.94 3757605.69
DISCCART 372861.54 3757481.08
DISCCART 372438.96 3757746.55
DISCCART 372431.74 3757838.64
DISCCART 372435.35 3757928.94
RE FINISHED
 ** AERMOD Meteorology Pathway
***
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
 *********
 ** AERMOD Output Pathway
OU STARTING
     STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
FUNTSURP
OU FINISHED
  *********
  *** SETUP Finishes Successfully ***
  06/29/10
                                                                                                                                                                                               11:46:58
  **MODELOPTs: NonDFAULT CONC
                                                                                                        FLAT
                                                                                                         NODRYDPLT NOWETDPLT
         ***
  **Model Is Setup For Calculation of Average CONCentration Values.
          DEPOSITION LOGIC -
  -- DEPOSITION LOGIC --
-- DEPOSITION DATA Provided.

**MO GAS DEPOSITION DATA Provided.

**MO PARTICLE DEPOSITION DATA Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F
  **Model Uses RURAL Dispersion Only.
  **Model Allows User-Specified Options:
              Allows User-specified Options.

1. Stack-tip Downwash.

2. Model Assumes Receptors on FLAT Terrain.

3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.

5. No Exponential Decay.
```

```
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
**This Run Includes: 1 Source(s); 1 Source Group(s); and 2505 Receptor(s)
**The Model Assumes A Pollutant Type of: CO
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                     m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = PPM
**Approximate Storage Requirements of Model = 3.9 MB of RAM.
06/29/10
11:46:58
PAGE 2
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                                                            *** AREA SOURCE DATA ***
SOURCE PART. (USER UNITS X Y ELEV. HEIGHT OF AREA OF AREA ID CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                                                                                                                                                                                                                        INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
                                                                                                                                                                                                                                                                      OF AREA
                                                                                                                                                                                                                                                                                                                           , BY
                                                                                                                                                                                                                                                                            (DEG.) (METERS)
          REA1 0 0.13530E-04 372695.4 3757575.0 10.0

AERMOD - VERSION 09292 *** *** Site 15 - CO ***
                                                                                                                                                                                    4.10 135.44 299.01
                                                                                                                                                                                                                                                                                                             0.00 NO
                                                                                                                                                                                                                                                                                                                                                         06/29/10
11:46:58
PAGE 3
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                            FLAT
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                                         *** SOURCE IDs DEFINING SOURCE GROUPS ***
                                                                                                                                                                SOURCE IDs
GROUP ID
ALL AREA1 ,
*** AERMOD - VERSION 09292 ***
                                                                                                  *** Site 15 - CO
                                                                                                                                                                                                                                                                                                                                                           11:46:58
                                                                                                                                                                                                                                                                                                                                                         PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                           FLAT
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                            *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                     *** X-COORDINATES OF GRID ***
                                                                                                                                                      (METERS)
                 371970.4, 372000.4, 372030.4, 372060.4, 372090.4, 372120.4, 372150.4, 372180.4, 372210.4, 372270.4, 372370.4, 372370.4, 372370.4, 372370.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470
                                                                                                                     *** Y-COORDINATES OF GRID ***
(METERS)
              3756971.3, 3757001.3, 3757031.3, 3757061.3, 3757091.3, 3757121.3, 3757151.3, 3757181.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757511.3, 3757511.3, 3757511.3, 3757511.3, 3757611.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 3757831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 375831.3, 3758
11:46:58
                                                                                                                                                                                                                                                                                                                                                         PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)
                                                                                            10.0, 10.0, 0.0);
10.0, 10.0, 0.0);
10.0, 10.0, 0.0);
*** Site 15 - CO
( 372922.9, 3757605.7,
( 372439.0, 3757746.5,
( 372435.3, 3757928.9,
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                        ( 372861.5, 3757481.1,
( 372431.7, 3757838.6,
                                                                                                                                                                                                                                                                                                                                                         11:46:58
                                                                                                                                                                                                                                                                                                                                                         PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                                                                                                      (1=YES; 0=NO)
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** 06/29/10 11:46:58 **MODELOPTS: NonDFAULT CONC יית זיין NODRYDPLT NOWETDPLT *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA *** Upper air station no.: 3190 Name: UNKNOWN Name · · Year: Surface station no.: 0
Name: UNKNOWN Year: 2005 2005 First 24 hours of scalar data
YR MO DY JDY HR HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD HT REF TA

05 01 01 1 101 -3.3 0.062 -9.000 -9.000 -999. 35. 6.5 0.26 1.00 1.00 1.00 1.10 52. 9.1 282.5

05 01 01 1 02 -3.9 0.073 -9.000 -9.000 -999. 45. 8.9 0.26 1.00 1.00 1.00 1.30 51. 9.1 282.0

05 01 01 1 03 -2.7 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 1.00 48. 9.1 281.4

05 01 01 1 04 -2.3 0.056 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 52. 9.1 282.5

05 01 01 1 1 05 -2.8 0.062 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 62. 9.1 281.4

05 01 01 1 1 06 -5.3 0.078 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 64. 9.1 280.9

05 01 01 1 107 -3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.00 64. 9.1 280.9

05 01 01 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 1.00 1.00 55. 9.1 280.9

05 01 01 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.05 1.00 64. 9.1 280.9

05 01 01 1 108 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.05 1.40 76. 9.1 280.9

05 01 01 1 108 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.05 1.40 76. 9.1 280.9

05 01 01 1 108 -4.9 0.078 -9.000 -9.000 -999. 51. 88.0 0.26 1.00 0.05 1.40 76. 9.1 280.9

05 01 01 1 108 -4.9 0.078 -9.000 -9.000 -999. 51. 88.0 0.26 1.00 0.05 31.40 76. 9.1 280.9

05 01 01 1 10 144 0.293 1.397 0.005 862. 365. -1.99 0.26 1.00 0.03 0.20 78. 9.1 283.9 1284.9 05 01 01 365. -19.9 -17.3 0.26 1.00 0.22 2.10 83. 284.9 01 01 376. 1.00 0.19 05 01 01 05 01 01 05 01 01 05 01 01 05 01 01 -17.3 -10.8 -35.4 -84.4 -268.6 -5231.4 0.26 0.26 0.26 0.26 0.26 1.00 1.00 1.00 1.00 1.00 0.18 0.18 0.19 0.22 125. 30. 287.0 184. 201. 205. 211. 2.00 286.4 176. 0.31 05 01 01 46. 4.9 0.26 1.00 0.57 0.80 216. 285.9 0.26 1 00 1 00 38 3.4 0.26 2.8 0.26 2.8 0.26 5.5 0.26 5.5 0.26 6.2 0.26 5.5 0.26 01 01 01 01 01 01 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.40 0.40 0.80 284.9 284.9 284.9 284.9 05 01 01 22. 0.80 05 01 01 26. 22. 1.00 1.00 0.90 46. 284.2 1.00 0.80 First hour of profile data
YR MO DY HR HBIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
05 01 01 01 01 5.5 0 -999. 0 99.00 282.6 99.0 -99.00 -99.00
05 01 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00 06/29/10 **MODELOPTS: NonDFAULT CONC NODRYDPLT NOWETDPLT *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) 371970.44 372000.44 372030.44 372060.44 372090 44 0.45982 (07090105) 0.46736 (07062201) 0.46483 (07062201) 0.46493 (05082506) 0.48853 (05102724) 0.47789 (06071402) 0.46654 (07090105) 0.4742 (07062201) 0.47293 (07062201) 0.47319 (05082506) 0.47745 (06071402) 0.47611 (06071402) 0.47272 (07090105) 0.48097 (07062201) 0.48096 (07062201) 0.45779 (06071402) 0.47242 (06071402) 0.47316 (06071402) 0.47318 (06071402) 0.47818 (07090105) 0.48684 (07062201) 3758411.3 3758381.3 3758351.3 0.45779 (06071402) 0.42067 (06071402) 0.39974 (06110122) 0.43210 (06110122) 0.45670 (07072706) 0.45659 (07072706) 0.42174 (06062903) 0.42174 (06062903) 0.42218 (06090102) 0.42286 (06090102) 0.47242 (06071402) 0.44974 (06071402) 0.40995 (06071402) 0.41814 (06110122) 0.44273 (06110122) 0.45619 (07072706) 0.47316 (06071402) 0.46574 (06071402) 0.44023 (06071402) 0.42119 (06092404) 0.43314 (06110122) 0.44973 (06110122) 0.47110 (07072706) 0.47325 (0702706) 0.45737 (07072706) 0.42694 (06062903) 0.41056 (07092003) 0.47818 (07090105)
0.46802 (06071402)
0.45737 (06071402)
0.43281 (06111621)
0.43488 (06092404)
0.44428 (06110122) 3758351.3 3758321.3 3758291.3 3758261.3 0.48684 (07062201) 0.48275 (07090105) 0.46343 (07090105) 0.44721 (06071402) 0.44776 (06111621) 3758231.3 3758201.3 0.44761 (06092404 0.45619 (07072706) 0.46686 (07072706) 0.45868 (07072706) 0.43310 (07072706) 0.42046 (06090102) 0.42569 (06090102) 3758171.3 0.46884 (07072706) 0.45940 (07072706) 0.48449 (07072706) 0.48194 (07072706) 0.48194 (07072706) 0.47595 (07072706) 0.45261 (07072706) 3758141 3 0.48876 (07072706 0.47526 (07072706 3758051.3 0.42286 (06090102) 0.43050 (07090203) 0.43722 (07090203) 0.44446 (07072706 3758021.3 0.40912 (06090102) 0.41790 (06090102) 0.41815 (05092123) 0.42913 (07090203) 0.42754 (05092123) 0.44315 (07090203) 0.45458 (07090203) 0.44987 (07090203) 3757991.3 0.40714 (05092123) 0.43525 (05092123) 3757991.3 3757961.3 3757931.3 3757901.3 3757871.3 3757841.3 0.41815 (05092123) 0.41590 (060990305) 0.42293 (05020723) 0.42709 (05020723) 0.42284 (07012323) 0.42032 (07012323) 0.41486 (07101207) 0.42754 (05092123) 0.42545 (05092123) 0.42792 (06090305) 0.42836 (05020723) 0.43133 (07012323) 0.43151 (07012323) 0.42398 (06121320) 0.43525 (05092123) 0.43879 (05092123) 0.43871 (06090305) 0.43214 (06070724) 0.43953 (07012323) 0.44237 (07012323) 0.44237 (07012323) 0.44987 (07090203) 0.45055 (05092123) 0.44847 (06090305) 0.44580 (06090305) 0.44770 (06070724) 0.45286 (07012323) 0.44553 (06121320) 0.41082 (06120524) 0.41082 (06120524)
0.42291 (05020723)
0.42473 (05020723)
0.41510 (05020723)
0.40884 (07012323)
0.41030 (07101207) 0.4350 (07101207) 0.4360 (07101207) 0.44046 (07101207) 0.43467 (07101207) 0.42858 (05062906) 0.42533 (05062906) 0.44816 (06020819) 0.46554 (06020819) 0.4398 (06121320) 0.43925 (07101207) 0.44471 (07101207) 0.43969 (07101207) 0.43671 (05062906) 0.43297 (05062906) 0.44320 (07101207) 0.444858 (07101207) 0.44484 (07101207) 0.44484 (075062906) 0.44707 (06020819) 0.47767 (06020819) 3757781.3 0.43050 (07101207) 0.44678 (07101207) 0.45199 (07101207) 3757751.3 0.43589 (07101207) 0.42932 (07101207) 0.42932 (07101207) 0.42045 (05062906) 0.41778 (05062906) 0.43315 (06020819) 0.44923 (06041122) 0.45292 (05062906) 0.46406 (06020819) 3757631.3 0.46306 (06020819) 0.47757 (06020819) 0.49183 (06020819 3757601.3 0.45317 (06020819) 0.48914 (06020819) 0.50014 (06020819 3757571.3 0.45492 (06020819) 0.46411 (06020819) 0.44337 (06020819) 0.47279 (06020819) 0.44819 (06020819) 0.48088 (06020819) 0.48838 (06020819 3757541.3 0.43786 (06020819) 0.45235 (06020819) 0.45577 (06020819 0.42085 (07110907) 0.42007 (07012321) 0.42950 (07040401) 0.45577 (06020819) 0.45211 (07012321) 0.45646 (07012321) 0.45471 (05051905) 3757511.3 3757481.3 3757451.3 0.43149 (07122906) 0.43381 (07012321) 0.43860 (07040401) 0.41128 (07110907) 0.44130 (07122906) 0.41024 (07012823) 0.42384 (05083124) 0.44060 (05083124) 0.44436 (05083124) 0.43475 (05083124) 0.43130 (05062904) 0.43476 (07040401) 0.43478 (07040401) 0.43479 (05042623) 0.43575 (05062904) 0.44566 (07040401) 0.45864 (07042502 3757421.3 0.44132 (07040401) 0.44508 (07040401) 0.44503 (05042623) 0.44379 (05042623) 0.43938 (07081224) 0.45891 (05042623) 0.45197 (07071204) 0.45477 (07081224) 3757391.3 0.43936 (07040401) 3757361.3 0.42736 (05062904) 0.43567 (05062904)

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3757301.3 | 0.43228 (05062904) 0.43131 (0
3757271.3 | 0.43018 (05043001) 0.43910 (0
**** AERMOD - VERSION 09292 *** *** Site 15 - CO
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                                                                             0.43131 (06111722)
                                                                                                                           0.43690 (U5U43001)
0.44183 (05043001)
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0.45184 (07081724)
                                                                                                                                                                                    0.44264 (050...
0.44239 (07041703)
***
                                                                                   0.43910 (05043001)
                                                                                                                                                                                                                                               06/29/10
                                                                                                                                                                                                                         ***
                                                                                                                                                                                                                                                11:46:58
                                                                                                                                  FLAT
NODRYDPLT NOWETDPLT
                                                           *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                  INCLUDING SOURCE(S): AREA1
                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                             ** CONC OF CO IN PPM
                        X-COORD (METERS)
371970.44 372000.44 372030.44 372060.44
  Y-COORD
  Y-COORD |
(METERS) |
                                                                                                                                                                                                                                      372090.44

    0.43800 (05043001)
    0.43726 (05043001)
    0.42992 (05043001)
    0.43745 (07081724)
    0.44959 (06092403)

    0.42878 (05043001)
    0.41716 (05043001)
    0.42312 (06092403)
    0.44681 (05011420)
    0.47783 (05091105)

    0.40034 (05043001)
    0.42345 (05011420)
    0.44877 (05011420)
    0.47584 (05091105)
    0.49266 (05091105)

    0.42646 (05011420)
    0.4916 (05011420)
    0.47252 (05091105)
    0.48647 (05091105)
    0.48738 (05091105)

3757211.3
3757181.3
3757151.3
                                                                                  0.44716 (05011420)

0.46799 (05091105)

0.47018 (05091105)

0.47701 (07091205)

0.48770 (07091205)

0.49249 (07081202)
                                                                                                                           0.47252 (05091105)

0.47890 (05091105)

0.47150 (07091205)

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0.49022 (07081202)

0.48547 (06090101)

0.50395 (06090101)
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0.47677 (05091105)

0.47967 (07091205)

0.48654 (07081202)

0.48377 (06090101)

0.50208 (06090101)

0.50006 (06090101)
                                                                                                                                                                                                                                     0.48738 (05091105)

0.48104 (07092604)

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0.50000 (05121721)

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3757121.3
                                  0.44803 (05011420)
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3757061.3
3757031.3
3757001.3
                                                                                   0.48603 (06090101)
3756971.3
                                                                                                                                                                                                                                      0.49270 (07070105)
                                                                                                                                                                                                                                         06/29/10
                                                                                                                                                                                                                                                11:46:58
                                                                                                                                                                                                                                                PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                  TI.AT
                                                                                                                                  NODRYDPLT NOWETDPLT
                                                           *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                 INCLUDING SOURCE(S): AREA1 ,
                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                           ** CONC OF CO IN PPM
                                                                                                                        X-COORD (METERS)
  Y-COORD
                                  372120.44 372150.44 372180.44 372210.44
  (METERS)
                                                                                                                                                                                                                                       372240.44
                                 0.51020 (05102724) 0.50798 (05102724) 0.50998 (07091203) 0.52968 (07091203) 0.53770 (06060106) 0.50084 (05102724) 0.52087 (05102724) 0.51577 (05102724) 0.52320 (07091203) 0.54528 (06060106) 0.48084 (05082506) 0.51284 (05102724) 0.53099 (05102724) 0.52320 (05102724) 0.53521 (07091203) 0.48784 (07062201) 0.48786 (05082506) 0.52444 (05102724) 0.54026 (05102724) 0.52877 (05102724) 0.49187 (07062201) 0.49734 (05102724) 0.54026 (05102724) 0.54867 (05102724) 0.49187 (07062201) 0.499187 (07062201) 0.49807 (07062201) 0.53520 (05102724) 0.54687 (05102724) 0.48621 (07090105) 0.48846 (0709105) 0.48947 (07062201) 0.50891 (05102724) 0.54867 (05102724) 0.48621 (0709105) 0.48846 (0709105) 0.48947 (07062201) 0.50127 (07062201) 0.50127 (07062201) 0.52069 (06122419) 0.45812 (06111621) 0.47874 (07062201) 0.50147 (07030521) 0.520169 (06122419) 0.46295 (07030805) 0.47879 (06111621) 0.48907 (07081723) 0.5012 (07081723) 0.5215 (07030805) 0.47969 (0610241621) 0.44695 (06111621) 0.47679 (06111621) 0.44969 (06111621) 0.50147 (07030801) 0.52751 (07081723) 0.48904 (07072706) 0.48040 (07072706) 0.49833 (07072706) 0.499446 (06092404) 0.51159 (06111621) 0.52530 (06083105) 0.499536 (07072706) 0.49933 (07072706) 0.49936 (07030805) 0.59494 (07030805) 0.59494 (07030805) 0.59494 (07030805) 0.52949 (07030805) 0.52949 (07030805)
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3758381.3
3758351.3
 3758321.3
3758291.3
 3758261 3
3758231.3
3758231.3
3758201.3
3758171.3
 3758141.3
 3758111.3
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0.49137 (07072706)
0.46874 (07090203)
0.47896 (07090203)
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0.50521 (07072706)
0.48761 (07072706)
0.48937 (07090203)
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0.47114 (07072706)
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0.51302 (07072706)
0.50444 (07072706)
0.49689 (07090203)
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0.52300 (06090202)
0.50571 (06090202)
 3758051 3
3757961.3
                                  0.46068 (05092123)
                                                                                   0.47095 (07090203)
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3757931.3
                                  0.45835 (05092123)
                                                                                   0.47226 (05092123)
0.47080 (06090305)
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0.48166 (06090305)
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0.49245 (05092123)
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 3757901.3
                                  0.45886 (06090305)
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3757901.3
3757871.3
3757841.3
3757781.3
3757781.3
3757751.3
                                                                                  0.47080 (06090305)

0.46705 (06070724)

0.47267 (07012323)

0.46814 (07012323)

0.45844 (06121320)

0.46825 (06041122)

0.46857 (06041122)
                                                                                                                                   0.48166 (06090305)

0.47644 (06090305)

0.48196 (07012323)

0.47054 (06121320)

0.47761 (06041122)

0.47810 (06041122)
                                                                                                                                                                                    0.49245 (05092123)

0.49016 (06090305)

0.49081 (07012323)

0.49083 (07012323)

0.48214 (06121320)

0.48682 (06041122)

0.48744 (06041122)
                                                                                                                                                                                                                                     0.50614 (05092123)
0.50250 (06090305)
0.49921 (07012323)
0.50102 (07012323)
0.49310 (06121320)
0.49573 (06041122)
                                  0.45761 (06070724)
                                 0.45761 (06070724)
0.46299 (07012323)
0.45598 (06121320)
0.44988 (07101207)
0.45880 (06041122)
0.45892 (06041122)
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                                 0.46094 (05062906)
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0.50538 (06020819)
0.51044 (06020819)
0.49516 (06020819)
                                                                                  0.46887 (05041122)

0.46883 (05062906)

0.49688 (06020819)

0.51818 (06020819)

0.50118 (06020819)

0.50118 (06020819)
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0.47701 (07090124)
0.51222 (06020819)
0.53000 (06020819)
0.52857 (06020819)
0.50634 (06020819)
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0.52643 (06020819)

0.54066 (06020819)

0.53615 (06020819)

0.51052 (06020819)

0.49973 (07012321)
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0.53918 (06020819)
0.54990 (06020819)
0.54255 (06020819)
0.51358 (06020819)
3757691.3
3757661.3
3757631.3
3757601.3
                                                                                   0.47381 (07122906)
0.47905 (07012321)
 3757541.3
                                  0.46285 (07122906)
                                                                                                                                    0.48548 (07012321)
                                                                                                                                                                                                                                      0.51203 (07012321)
0.51357 (05051905)
 3757511.3
                                  0.46646 (07012321)
                                                                                                                                    0.48993 (07012321)
                                                                                                                                                                                     0.50059 (06071502)
3757481.3
                                  0.46530 (06071502)
0.46743 (07042502)
                                                                                   0.47753 (06071502)
0.48256 (07042502)
                                                                                                                                    0.49018 (05051905)
0.49453 (07042502)
                                                                                                                                                                                      0.50640 (07042502)
                                                                                                                                                                                                                                      0.51948 (07042502)
0.52143 (05042623)
 3757451 3
                                                                                                                                                                                     0.50952 (05042623)
0.49453 (07042502)
0.49508 (05042623)
0.49514 (07081224)
0.49957 (07041703)
0.49627 (07081724)
0.49472 (06092403)
0.50161 (05121222)
                                                                                                                                                                                     0.50550
0.51107
                                                                                                                                                                                                      (07071204)
(07041703)
                                                                                                                                                                                                                                      0.52430 (07081224
0.52993 (07041703
                                                                                                                                                                                     0.51325 (07041703)
0.51227 (06092403)
                                                                                                                                                                                                                                      0.52804 (07081724
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                                                                                                                                                                                     0.51171 (05082706)
                                                                                                                                                                                                                                      0.52766 (07012605
                                                                                                                                                                                     0.51296 (05121222)
                                                                                                                                                                                                                                      0.52629 (05020107
                                                                                                                                                                                                                                               06/29/10
11:46:58
PAGE 11
**MODELOPTS: NonDFAULT CONC
                                                                                                                                  NODRYDPLT NOWETDPLT
                                                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                            ** CONC OF CO IN PPM
                                 X-COORD (METERS)
372120.44 372150.44 372180.44 372210.44 372240.44
  Y-COORD
                                                                                  0.49735 (05091105)
0.49655 (05091105)
0.48647 (07092604)
3757211.3
                                                                                                                                                                                                                                      0.52889 (05121721)
3757181.3
                                                                                                                                                                                                                                      0.54406 (05121721)
0.53637 (05121721)
                                                                                                                                                                                    3757151.3
3757121.3
                                  0.48341 (05041623)
                                  0.49580 (05121721)
0.50995 (05121721)
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11:46:58 PAGE 12 **MODELOPTs: NonDFAULT CONC FLAT NODRYDPIAT NOWETDPIAT *** THE -1ST HIGHEST 1-HR AVERAGE CONCENTRATION - VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl - , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM Y-COORD X-COORD (METERS) 372270.44 372300.44 372330.44 372360.44 (METERS)
 0.54385 (07022024)
 0.52537 (05082505)
 0.56253 (07070205)
 0.58206 (07070205)

 0.55291 (06060106)
 0.54706 (07022024)
 0.53403 (07070205)
 0.58374 (07070205)

 0.56693 (06060106)
 0.56638 (06060106)
 0.57773 (06060106)
 0.57737 (06060106)
 0.56738 (07070205)

 0.53363 (06060106)
 0.58770 (06060106)
 0.57737 (06060106)
 0.56788 (07031305)

 0.53363 (06060106)
 0.58700 (06060106)
 0.60698 (06060106)
 0.58537 (06060106)

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 0.56072 (05102724)
 0.56075 (05102724)
 0.5980 (06060106)
 0.63764 (06060106)

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 0.56075 (05102724)
 0.56075 (05102724)
 0.56073 (05102724)
 0.56784 (06060106)
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NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) 372270.44 372300.44 372330.44 372360.44 372390.44 0.53950 (05030206) 0.56159 (07091601) 0.58194 (07090905) 0.60163 (05060724) 0.62014 (05102602) 0.54976 (05121721) 0.55648 (07090905) 0.57600 (05060724) 0.59312 (05102602) 0.61993 (07081306) 0.54209 (05121721) 0.55118 (05060724) 0.56641 (05102602) 0.60788 (07081306) 0.61323 (07081306) 0.53301 (05060605) 0.54037 (05102602) 0.59099 (07081306) 0.60935 (07081306) 0.59936 (05083002) 0.53773 (05060605) 0.57046 (07081306) 0.60006 (07081306) 0.58569 (07081306) 0.58930 (06041202) 0.54735 (07081306) 0.58637 (07081306) 0.58571 (07081306) 0.56884 (07081306) 0.56884 (07081306) 0.56884 (07081306) 0.58930 (06041202) 0.56924 (07081306) 0.58895 (07081306) 0.58895 (07081306) 0.57705 (06072502) 0.61961 (06022502) 0.56924 (07081306) 0.58895 (07081306) 0.57705 (06072502) 0.61961 (06022502) 0.58895 (07081306) 0.57705 (06072502) 0.61961 (06022502) 0.58895 (07081306) 0.57705 (06072502) 0.61961 (0602502) 0.61961 (06022502) 0.61961 (0602502) 0.6 3757151.3 0.59099 (07081306) 0.60006 (07081306) 0.58517 (07081306) 0.58495 (05050324) 0.56529 (05050324) 0.56707 (06110719) 0.58419 (06022502) 0.57046 (07081306) 0.58637 (07081306) 0.58012 (05050324) 3757121.3 0.56884 (U.C.. 0.57705 (06022502) 0.60319 (06022502) 0.6115 (06022502) 0.60076 (06022502) *** 3757091.3 3757061 3 0.56924 (07081306) 0.63363 (06022502 3757061.3 | 0.56924 (07081306) 0.58012 (05050324) 3757031.3 | 0.57160 (05050324) 0.59296 (05050324) 3757001.3 | 0.59331 (05050324) 0.58313 (05050324) 3756971.3 | 0.59323 (05050324) 0.55321 (06110719) *** AERMOD - VERSION 09292 *** *** Site 15 - CO 0.62746 (06022502) 0.60254 (06022502) 0.59167 (07103024) 06/29/10 11:46:58 PAGE **MODELOPTS: NonDEAULT CONC NODRYDPLT NOWETDPLT *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM Y-COORD | (METERS) | X-COORD (METERS) 372420.44 372450.44 372480.44 372510.44 372540.44 0.64131 (05072206) 0.61112 (05072206) 0.62914 (07070102) 0.63060 (06090404) 0.63575 (06070502) 0.64761 (05072206) 0.65036 (05072206) 0.63177 (07070102) 0.62054 (06090404) 0.64307 (06070502) 0.63670 (05072206) 0.67457 (05072206) 0.63839 (05072206) 0.63768 (07041624) 0.64187 (06090404) 0.60350 (07041624) 0.60350 (07041624) 0.66350 (07041624) 0.66350 (07041624) 0.66350 (07041624) 0.66350 (07041624) 0.60350 (05072206) 0.60350 (0507 3758351.3 3758321.3 3758291.3 0.61914 (05053023) 0.64547 (05051424) 0.71361 (05072206) 0.71049 (05072206) 0.71116 (07041624 0.71116 (07041624) 0.72899 (06071302) 0.74446 (07030903) 0.76277 (05072206) 0.77646 (05042123) 0.79476 (05042123) 3758261.3 0.63964 (07031305) 0.65373 (05053023) 0.69767 (05072206) 0.73822 (05072206) 0.74317 (05072206) 0.63964 (07031305) 0.64818 (06060106) 0.67981 (06060106) 0.68156 (06060106) 0.65484 (06060106) 0.64907 (06071403) 0.66117 (06122419) 0.65133 (06122419) 0.69767 (05072206) 0.69510 (05051424) 0.70457 (05053023) 0.72046 (07031305) 0.71874 (07031305) 0.72270 (06060106) 3758231.3 3758231.3 3758201.3 3758171.3 0.66983 (07031305) 0.68241 (07031305) 0.69507 (06060106) 0.70491 (06060106) 0.74317 (05072206) 0.74011 (05042123) 0.74613 (05051424) 0.75414 (05092921) 0.76378 (07031305) 3758141.3 0.79798 (05051302) 0.80060 (07031305) 0.79183 (07031305) 3758111.3 0.68545 (07093005) 3758081.3 3758051.3 0.67429 (06071403) 0.68309 (06122419) 0.72091 (07093005) 0.69747 (06071403) 0.74841 (05072003) 0.75305 (07093005)

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                          0.66285 (05060724) 0.69078 (05102602) 0.65875 (05102602) 0.68856 (07111006) 0.65428 (07111006) 0.68274 (05083002) - VERSION 09292 *** *** Site 15 - CO
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                                                                                                                                                                                                                                                                               PAGE
**MODELOPTs: NonDFAULT CONC
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                                                                                                                                                  NODRYDPLT NOWETDPLT
                                                                  *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                          INCLUDING SOURCE(S): AREA1
                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                     ** CONC OF CO
                                                                                                                              IN PPM
                                                                                                                                       X-COORD (METERS)
  Y-COORD
                                        372420.44 372450.44 372480.44 372510.44 372540.44
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PAGE 16
 **MODELOPTs: NonDFAULT CONC
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                                                                  *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREA1 \, ,
                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                              IN PPM
                                                                                      ** CONC OF CO
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                                                                                                                                                     0.66840 (07122904)
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 3757811.3
                                       0.60860
                                                          (05093007)
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3757811.3
3757781.3
3757751.3
3757721.3
3757691.3
3757661.3
                                                                                             0.63133 (05093007)

0.59705 (05093007)

0.53101 (05052301)

0.52823 (05091707)

0.56211 (07062606)

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0.60704 (07062606)
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0.59120 (05093007)
0.55333 (05093007)
0.50003 (07062606)
0.54021 (07062606)
0.58494 (07112201)
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0.57510 (07040107)

0.53010 (06091907)

0.49478 (06091907)

0.53833 (07033107)

0.62618 (06111808)

0.70476 (06111808)
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0.56764 (07040107)
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0.59404 (07092607)
                                       0.56609
                                                         (05102205)
                                       0.54278 (05091707)
                                       0.54278 (05091707)
0.53585 (05091707)
0.55197 (07101907)
0.58874 (07062606)
 3757631.3
                                       0.61594 (07062606)
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0.69430 (05010118)

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 3757601.3
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0.79519 (05101707)
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0.81174 (06111808)
0.86235 (05101707)
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 3757571.3
                                       0.67055 (07102319)
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0.85931 (05101707)
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 3757451.3
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 3757421.3
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                                                         (06041202)
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 3757391.3
                                       0.84268 (06082324)
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 3757361.3
                                       0.84380 (07090201)
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0.95884 (06040122)
0.93374 (06040122)
0.90357 (06120301)
06/29/10
11:46:58
                                                                                                                                                     0.90553 (07070103)
0.88434 (07070103)
0.85110 (07040124)
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                                                                                              0.87511 (07042624)
                                                                                              0.85805 (07081803)
0.83498 (05111121)
                                                                                                                                                                                                                                                                               PAGE 17
**MODELOPTS: NonDEAULT CONC
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NODRYDPLT NOWETDPLT

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*** THE
                                                                                                                1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                              INCLUDING SOURCE(S):
                                                                                                                                                           AREA1
                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                            ** CONC OF CO
                                                                                                                                                            IN PPM
   Y-COORD
                                                                                                                                                                         X-COORD (METERS)
                                                  372570.44 372600.44 372630.44 372660.44 372690.44
                                                0.87212 (06120301)
0.83724 (06120301)
0.80028 (06120301)
0.76649 (07071502)
 3757211.3
3757181.3
                                                                                                                    0.76069 (05021523)

0.75872 (05021523)

0.74503 (05021523)

0.72110 (05021523)

0.681899 (05021523)

0.69145 (07062204)

0.69263 (07062204)

0.68762 (07062204)
 3757151.3
                                                                                                                                                                                                                                                                                                                                    0.74211 (07071502)
0.71721 (07071502)
0.71721 (07072801)
0.69211 (07072801)
  3757121 3
                                                 0.71480 (05021523)
                                                0.71480 (05021523) 0.74503 (0

0.72429 (05021523) 0.72110 (0

0.72273 (05021523) 0.69899 (0

0.71111 (05021523) 0.69145 (0

0.69077 (05021523) 0.69263 (0

0.66329 (05021523) 0.68762 (0

SION 09292 *** *** Site 15 - CO
 3757001.3
                                                                                                                                                                                                                                                                                                                                     0.68353 (07072801
                                                                                                                                                                                                                                                                                                                                    0.67536 (07072801
 3756971.3
  *** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                 06/29/10
11:46:58
                                                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
                                                                                   *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, ,
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                               ** CONC OF CO
                                                                                                                                                               IN PPM
                                                                                                                                                                  X-COORD (METERS)
   Y-COORD
                                   X-CUURD (MEIRES)
372720.44 372750.44 372780.44 372780.44
   (METERS)
                                                                                                                                                                                                                                                                                                                                      372840.44
                                               0.66628 (05082924) 0.79884 (07070206) 0.90487 (07070206) 0.86684 (07070206) 0.67304 (05082924) 0.82052 (07070206) 0.92737 (07070206) 0.88207 (07070206) 0.67304 (05082924) 0.82052 (07070206) 0.94976 (07070206) 0.89264 (07070206) 0.68518 (07091801) 0.84246 (07070206) 0.94976 (07070206) 0.91029 (07070206) 0.69636 (07050904) 0.88628 (07070206) 0.97172 (07070206) 0.91029 (07070206) 0.79956 (07070206) 0.91029 (07070206) 0.74955 (05053024) 0.92761 (07070206) 1.01265 (07070206) 0.93256 (07070206) 0.74995 (05053024) 0.92761 (07070206) 1.03059 (07070206) 0.94251 (07070206) 0.93282 (05053024) 0.92600 (07070206) 1.04587 (07070206) 0.94871 (07070206) 0.88310 (05053024) 0.96200 (07070206) 1.05761 (07070206) 0.94871 (07070206) 0.88310 (05053024) 0.97418 (07070206) 1.06435 (07070206) 0.95132 (07070206) 0.982456 (05053024) 0.98109 (07070206) 1.06435 (07070206) 0.95131 (07070206) 0.94629 (06121424) 0.96133 (05053024) 0.98109 (07070206) 1.06469 (07070206) 0.994629 (06121424) 0.96133 (05053024) 0.98109 (07070206) 1.066489 (07070206) 0.97536 (06121424)
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0.70510 (07070206)
 3758411.3
3758381.3
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0.97172 (07070206)

0.99224 (07070206)

1.01265 (07070206)

1.03059 (07070206)

1.04587 (07070206)

1.05761 (07070206)

1.05761 (07070206)

1.05645 (07070206)

1.05668 (07070206)

1.03799 (07070206)

1.01482 (07033024)

1.01191 (07033024)

0.99484 (07122001)

0.96050 (07061001)

0.93359 (06080406)

0.86466 (06080406)
3758381.3
3758351.3
3758321.3
3758291.3
3758261.3
3758231.3
3758201.3
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0.75158 (06121424)
0.78208 (05011519)
0.81219 (05011519)
0.84300 (06072405)
0.87425 (06072405)
0.90738 (07082905)
 3758171.3
  3758141.3
                                               0.92456 (05053024)

0.96133 (05053024)

0.99069 (07040201)

1.00893 (07040201)

1.01557 (06062405)

0.98383 (06062405)

0.98383 (06062405)

0.93375 (05050905)

0.76598 (05050905)
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0.98084 (07070206)
1.00169 (07050904)
1.01359 (07050904)
1.01094 (07050904)
0.99861 (06062405)
0.97923 (06062405)
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0.97536 (06121424)
0.99700 (06121424)
1.01055 (05011519)
1.00978 (05011519)
0.99010 (05071902)
0.96300 (05071604)
0.93857 (05071604)
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0.95460 (07082905)
0.96458 (07090102)
0.98912 (06070803)
0.99815 (06042604)
1.00982 (06042604)
 3758111.3
3758081.3
 3758081.3
3758051.3
3758021.3
3757991.3
  3757961.3
3757931.3
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                                                                                                                     0.97923 (06062405)
0.93552 (07032006)
0.86023 (07032006)
0.76899 (07050906)
0.67687 (07050906)
0.57971 (07050906)
0.47797 (07050906)
                                                                                                                                                                                                                                                                                                                                     0.92544 (06042604
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0.77527 (06080406)
0.68028 (07050906)
0.58177 (07050906)
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0.77422 (05071604)
0.67653 (05071604)
0.58318 (07072506)
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0.76473 (05052224)
0.69398 (05052224)
0.61620 (05102104)
 3757901.3
3757871.3
                                                 0.68160
0.58872
 3757781.3
                                                0.49600 (07031606)
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                                                                                                                     0.38076 (06092705)
0.32283 (05052106)
 3757751.3
                                                0.41921 (07040107)
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0.32682 (06072406)

0.40470 (07072906)

0.49780 (07073004)

0.58778 (07073004)

0.69125 (05052206)

0.79952 (05052206)

0.90354 (05052206)
  3757721.3
                                                 0.41764 (07091607)
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3757721.3
3757691.3
3757661.3
3757631.3
3757601.3
3757571.3
                                                0.41764 (07091607)
0.46373 (07092607)
0.53322 (07092607)
0.69562 (05102621)
0.69562 (05102621)
0.78363 (05051306)
0.87364 (05051306)
                                                                                                                     0.32283 (05052106)
0.40530 (05052106)
0.49127 (05102504)
0.58400 (05102504)
0.67184 (05102504)
0.76556 (05052206)
0.85963 (05052206)
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0.44824 (06072406)

0.53495 (07072606)

0.71681 (07072606)

0.80203 (06080404)

0.88613 (06080404)
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0.48494 (05041803)
0.55911 (05031120)
0.63208 (05070505)
0.71101 (07072606)
0.80288 (07072606)
 3757541.3
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3757541.3
3757511.3
3757481.3
3757451.3
3757421.3
                                                0.94255 (05051306)
0.98394 (05102620)
1.00932 (05102620)
1.00598 (07071502)
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1.00426 (07022604)
1.02868 (07022604)
1.02639 (07022604)
1.01306 (06090303)
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0.99027 (05052206)
1.03536 (05052206)
1.04411 (05052206)
1.02947 (05052206)
1.00330 (07081504)
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0.98204 (06032405)
1.01214 (06032405)
1.01323 (06032405)
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0.96660 (05060603)
1.00172 (05060603)
1.00674 (05060603)
0.99074 (07102806)
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1.00598
1.00679
                                                 0.99399
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  3757361.3
                                                                        (07071502)
                                                                                                                      0.99781 (07081903)
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 3757331.3
                                                 0.97166 (07071502)
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0.97177 (06030421)
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0.94313 (07081602)
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  3757301.3 0.94296 (07071502)
3757271.3 0.91012 (07071502)
*** AERMOD - VERSION 09292 *** *
 3757301.3
3757271.3
                                                                                                                     0.94682 (07081903)
0.91582 (07081903)
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0.89812 (07081401)
                                                                                                                                                                                          0.95716 (06030421)
                                                                                                                                                                                                                                                                0.91358 (07081602)
                                                                                                                                                                                                                                                                                                                                             06/29/10
11:46:58
PAGE 19
                                                                                                   *** Site 15
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                        FLAT
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                  *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREA1 \, ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                           ** CONC OF CO IN PPM
                                   X-COORD (METERS)
372720.44 372750.44 372780.44 37280.44 37280.44
   Y-COORD
                                                3757241.3
                                                                                                                                                                                         0.91449 (06030421)

0.88947 (06030421)

0.86355 (06030421)

0.86635 (06030421)

0.81006 (06030421)

0.78381 (06030421)

0.75810 (06030421)
                                                                                                                                                                                                                                                                                                                                   0.83592 (07090301)
0.80150 (07090301)
0.76553 (07090301)
0.73861 (07081602)
0.71600 (07081602)
 3757211.3
3757181.3
                                                0.84747 (05083001)
0.81769 (05083001)
                                                                                                                     0.85081 (07081903)
0.81896 (06030421)
                                                                                                                                                                                                                                                               0.84702 (07081602)
0.82797 (06030421)
                                                 0.70132 (05083001)
                                                                                                                     0.71872 (06030421)
                                                                                                                                                                                                                                                                0.75138
                                                                                                                                                                                                                                                                                       (06030421)
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                                               0.68965 (07112120,

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0.68847 (07081502)
0.68201 (07081502)
 3757031.3
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0.69125 (06030421)
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0.73310 (06030421)
0.70899 (06030421)
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                                                                                                                                                                                                                                                                                                                                     0.62314 (07081602
                                                                                                                                                                                                                                                                                                                                                  06/29/10
11:46:58
PAGE 20
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUD: ALL

INCLUDING SOURCE(S): AREA1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO 372870.44 372900.44 372960.44 372990.44 (METERS) 44 372930.44 ------0.68699 (07122005) 0.68575 (07122005) 0.67508 (07122005) 0.66624 (05091501) 0.69817 (05091501) 0.72137 (05091501) 0.67808 (07040123) 3758441 3 0 61086 (07122005) 3758441.3 3758411.3 3758381.3 3758351.3 0.67808 (07040123) 0.67784 (07040123) 0.69175 (07082905) 0.72033 (07082905) 0.74716 (07082905) 0.62036 (05091501) 0.64137 (05091501) 0.65406 (05091501) 0.65679 (05091501) 3758321.3 3758291.3 0.77130 (07082905) 0.75693 (06070803) 0.72356 (05020721) 0.68519 (05101022 0.72356 (05020721) 0.75150 (05091501) 0.78781 (05091501) 0.81192 (05091501) 0.82090 (05091501) 0.83812 (05101022) 0.87042 (05101022) 0.72137 (05091501) 0.73340 (05091501) 0.73558 (05101022) 0.78067 (05101022) 0.80764 (05101022) 0.81915 (07091206) 0.68519 (05101022) 0.72206 (05101022) 0.74338 (05101022) 0.75747 (07091206) 0.77566 (05072924) 0.78137 (07052205) 0.79171 (06092022) 0.78424 (06092022) 3758261.3 0.79202 (07082905) 0.78285 (06070803) 0.79202 (07082905) 0.80810 (07082905) 0.84917 (06070803) 0.88540 (06070803) 0.91249 (06070803) 0.92749 (06070803) 0.78285 (06070803) 0.80161 (06070803) 0.82037 (05020721) 0.85101 (05020721) 0.88363 (05091501) 0.90497 (05091501) 0.90477 (05091501) 3758231 3 3758231.3 3758201.3 3758171.3 3758141.3 0.83300 (05072924) 0.87691 (07091206) 3758081.3 0.95229 (05020721) 0.83239 (07052205) 3758081.3 3758051.3 3758021.3 3757991.3 3757961.3 3757931.3 0.91820 (05101022) 0.91820 (05101022) 0.91912 (05101022) 0.90050 (07091206) 0.86141 (07052205) 0.80785 (06092022) 0.74696 (06081604) 0.87691 (07091206) 0.88113 (05070724) 0.86793 (07052205) 0.84798 (06092022) 0.79807 (06092022) 0.75366 (05072004) 0.71852 (05072004) 0.78424 (06092022) 0.74846 (05072004) 0.76898 (05072004) 0.75378 (07010319) 0.72481 (05060722) 0.69656 (05021522) 0.96846 (06040319) 0.83365 (06092022) 0.80631 (06092022) 0.77974 (05072004) 0.76523 (05072004) 0.73000 (05021522) 0.70506 (05021522) 0.62803 (07110903) 0.58975 (05070304) 0.56977 (05070304) 0.53890 (06042804) 0.52099 (05066066) 0.54091 (05066066) 0.83365 (06092022) 0.96891 (06040319) 0.96891 (06040319) 0.93844 (06040319) 0.89738 (05101022) 0.86245 (05052224) 0.80018 (05080903) 0.66327 (05111007 3757871.3 0.75614 (07021201) 0.70007 (06081604) 0.70618 (07040604) 0.66119 (05030601) 0.69485 (05021522) 0.64013 (07110903 0.66119 (C. 0.61795 (0509150b, 0.57621 (05122808) 0.52014 (06100823) (05060606) 3757841.3 0.65356 (05021522) 0.60689 (05070304 3757811.3 3757781.3 3757751.3 3757721.3 0.64552 (06101507) 0.57172 (05030601) 0.51312 (05122808) 0.49698 (07070406) 0.59494 (07110903) 0.55700 (06100823) 0.52585 (05070304) 0.53916 (05060606) 0.59128 (05070304) 0.56694 (06042804) 0.54136 (05052401) 0.52764 (05052401) 3757691.3 0.51616 (07111923) 0.53819 (06052603) 0.54811 (05060606) 0.54091 (05060606) 0.54130 (07081406 0.56516 (06061102) 0.62509 (06061102) 0.66509 (06061102) 0.66064 (05101724) 0.770764 (05101204) 0.75875 (05042906) 0.83899 (05042906) 0.89543 (05042906) 3757661.3 0.56372 (05070104) 0.56608 (06052603) 0.60423 (06061102) 0.57585 (05102701) 0.56378 (05102701 3757631.3 0.64832 (05070104) 0.59190 (05102701) 0.59601 (05102701 3757631.3 3757601.3 3757571.3 3757541.3 3757511.3 3757481.3 0.64832 (05070104) 0.70989 (05070104) 0.76995 (05042906) 0.83980 (05042906) 0.89076 (06112204) 0.93618 (06112204) 0.60423 (06061102) 0.66621 (06061102) 0.70273 (06061102) 0.70278 (06032621) 0.77665 (07051301) 0.81425 (07051301) 0.59190 (05102701) 0.62070 (07081001) 0.67313 (06061102) 0.71207 (06061102) 0.73636 (05062701) 0.77349 (06032621) 0.59601 (05102701) 0.60857 (05102701) 0.64107 (07081001) 0.66368 (06022824) 0.70296 (06090105) 0.73206 (05062701) 0.84425 (07051301) 0.84574 (07111001) 0.87412 (07111001) 0.87266 (07101003) 0.87806 (07101003) 0.86560 (05081906) 0.85273 (07072703) 0.83177 (05082805) 3757451.3 0.94791 (05082805) 0.95387 (07072003) 0.91184 (05042906) 0.80384 (07051301) 0.81397 (07051301) 0.75744 (07091204 3757421 3 (07072003) (07072003) 0.92832 (06112204) 77848 (07033101 3757391.3 3757391.3 3757361.3 3757331.3 0.96365 0.94957 0.91650 0.92832 (06112204) 0.92565 (07072703) 0.91789 (05082805) 0.88951 (05082805) 0.87633 (07072003) .77848 (07033101) .79026 (06083023) .77199 (06083023) .78442 (07111001) 0.82602 (07111001 0.82602 0.83556 0.81539 0.81692 0.78137 (07111001) 0.75277 (07101003) 0.85772 (07072003) 0.80363 (05081906) 06/29/10 11:46:58 FLAT NODRYDPLT NOWETDPLT **MODELOPTS: NonDFAULT CONC THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , *** THE *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) Y-COORD 372870.44 372900.44 372930.44 (METERS) 372960.44 372990.44 0.79507 (05082805) 0.77603 (07072003) 0.75968 (07072003) 0.73352 (07072003) 0.78462 (07072703) 0.76486 (05082805) 0.73947 (05082805) 0.70195 (05082805) 0.75323 (07101003) 0.74029 (05081906) 0.71677 (07072703) 0.70191 (07072703) 3757211.3 3757181.3 3757151.3 0.7352 (07072003) 0.69964 (07072003) 0.67292 (05091702) 0.66546 (05091702) 0.64966 (05091702) 0.65627 (07103023) 0.66114 (07122007) 0.68193 (05082805) 0.65502 (05082805) 0.61945 (05082805) 0.60674 (07072003) 0.59641 (07072003) 0.61149 (05091702) 3757121.3 0.73718 (07081401) 0.72980 (07100824) 0.68487 (07072003) 3757091.3 0.71637 (07122007) 0.71407 (07122007) 0.67179 (07072003) 0.65098 (07072003) 0.65098 (U/U/2003, 0.65508 (05091702) 0.65817 (05091702) 0.65290 (05091702) *** 0.70347 (07122007) 0.68948 (07122007) 06/29/10 11:46:58 PAGE **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) Y-COORD 373020.44 373050.44 373080.44 : (METERS) 373110.44 373140.44
 0.62993 (07062524)
 0.62947 (05101302)
 0.61096 (07091723)
 0.55049 (07091206)

 0.62915 (07062524)
 0.63026 (07091723)
 0.59084 (07091723)
 0.56875 (05072924)

 0.63914 (05101302)
 0.62794 (07091723)
 0.59463 (07091206)
 0.57816 (07052205)

 0.64088 (05101302)
 0.62746 (05101022)
 0.61386 (05072924)
 0.58315 (07052205)
 3758441.3 | 3758411.3 | 3758381.3 | 3758351.3 | 0.53676 (07052205) 0.54349 (07052205) 0.55805 (06092022) 0.57353 (06092022) 0.64378 (0511022) 0.64378 (07091206) 0.66368 (05072924) 0.67357 (07052205) 0.68233 (06092022) 0.69945 (06092022) 0.69179 (06092022) 0.66222 (05072004) 0.62381 (07052205) 0.62374 (06092022) 0.65108 (06092022) 0.65383 (06092022) 0.63457 (06092022) 0.63457 (06092022) 0.63457 (06092022) 3758321.3 0.66631 (05101022) 0.68281 (05101022) 0.60347 (06092022) 0.57272 (06092022 0.56502 (07070124) 0.55442 (05072004) 0.59931 (05072004) 0.62108 (05072004) 3758291.3 0.61370 (06092022) 3758261.3 3758231.3 3758201.3 0.69821 (05101022) 0.69821 (07091206) 0.71805 (05072924) 0.72676 (07052205) 0.73852 (06092022) 0.61370 (06092022) 0.60486 (06092022) 0.57692 (06092022) 0.62176 (05072004) 0.65016 (05072004) 3758171.3 0.62480 (07010319 3758141.3 0.74557 (06092022) 0.65532 (07010319) 0.63132 (05060722 3758111.3 0.72393 (06092022) 0.70616 (05072004) 0.71667 (05072004) 0.68571 (07010319) 0.68312 (05060722) 0.65759 (05060722) 0.63142 (07070204 3758081.3 0.73028 (05072004) 0.65540 (07070204) 0.62880 (05111007 0.71667 (05072004) 0.70673 (05060722) 0.69764 (05060722) 0.68252 (05111007) 3758051.3 3758021.3 3757991.3 0.67796 (07070204) 0.66805 (05111007) 0.65258 (05050323) 0.62022 (05050323) 0.61608 (05042124) 0.60636 (06123019) 0.74602 (05072004) 0.64962 (05111007) 0.74602 (05072004)
0.73281 (07010319)
0.71548 (05060722)
0.69142 (07070204)
0.66580 (07110922)
0.64063 (07110922)
0.61440 (05121423) 0.61324 (05042124) 0.61909 (06123019) 0.61077 (06123019) 0.58834 (06123019) 0.63812 (05042124) 0.61799 (05042124) 0.60339 (07100121) 0.58980 (06123019) 3757961.3 0.66238 (05050323) 0.62594 (06123019 0.62395 (06123019) 0.60703 (06123019) 0.57133 (06123019) 3757931.3 0.64142 (05042124) 3757901.3 3757871.3 0.61850 (05042124) 0.60242 (05121423)

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0.55653 (06071723)
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0.56518 (07062124)
0.55220 (06071723)
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0.55761 (06071723)
0.54498 (05051502)
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0.55028 (05051502)
0.54085 (05112020)
3757841.3 |
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3757811.3
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0.53471 (06090302)
3757781.3
                                    0.54564 (05052401)
0.52660 (06102422)
0.54656 (07081406)
0.55623 (06092124)
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0.53781 (07081124)
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0.55593 (06092124)
0.56355 (06040824)
 3757631.3
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 3757601.3
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                                                                                       0.58626 (06040824)

0.60628 (07090305)

0.62114 (07090305)

0.64518 (07081001)

0.66526 (07081001)

0.67935 (06090105)
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0.58951 (06040824)
0.60720 (07090305)
0.61891 (07090305)
0.63758 (07081001)
0.65456 (07081001)
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0.55545 (07072424)
0.57334 (06040824)
0.58071 (06040824)
0.59585 (07090305)
0.59624 (07090305)
3757571.3
                                    0.61642 (07090305)
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 3757541 3
                                    0 64741 (07081001)
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0.60350 (07090305)
0.61069 (07090305)
0.62630 (07081001)
0.63891 (07081001)
0.63626 (06090105)
3757541.3
3757511.3
3757481.3
3757451.3
3757421.3
                                    0.64741 (07081001)
0.66918 (07081001)
0.69516 (06090105)
0.71755 (06090105)
0.73811 (07091204)
                                                                                        0.70046 (06090105)
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 3757391.3
                                    0.74889 (06032621)
                                                                                        0.71169 (05062701)
                                                                                                                                            0.67845 (06090105)
                                                                                                                                                                                                                                                    0.61978 (07081001
3757361.3
                                    0.75518 (06083023)
                                                                                        0.71630 (06032621)
                                                                                                                                            0.68363 (05062701)
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0.65402 (05062701)
0.65807 (07091204)
0.65098 (06032621)
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0.62874 (06090105)
0.62420 (05062701)
0.62863 (07091204)
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0.68363 (05062701)
0.68721 (07091204)
0.68369 (07033101)
0.68152 (06083023)
                                                                                                                                                                                                                                                               PAGE 23
**MODELOPTS: NonDEAULT CONC
                                                                                                                                           NODRYDPLT NOWETDPLT
                                                              *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                  ** CONC OF CO IN PPM
                                  X-COORD (METERS)
373020.44 373050.44 373080.44 373110.44 33
                                                                                                                                                                                                                                                      373140.44
  (METERS)
                                   0.61943 (06032621)
0.61247 (07033101)
0.60803 (06083023)
0.59003 (06083023)
0.61129 (07062502)
0.62013 (07062502)
                                                                                                                                           0.66667 (06083023)
                                                                                                                                                                                              0.64456 (07103022)
                                                                                                                                           0.66667 (06083023)
0.63324 (07062502)
0.63923 (07062502)
0.63491 (07111001)
0.61600 (07111001)
0.60284 (07081801)
                                                                                                                                                                                               0.64456 (07103022)

0.63866 (06083023)

0.61209 (07062502)

0.63122 (07062502)

0.62677 (07062502)

0.60020 (05101902)
3757241.3
3757211.3
3757181.3
3757151.3
3757091.3
0.60663 (07081801)
0.62101 (05010120)
0.63551 (05010120)
0.63510 (05010120)
                                                                                                                                                                                                0.60558 (05101902)
                                                                                                                                                                                                                                                    0.60697 (07062502
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0.59250 (05101902)
0.59365 (05101902)
0.58299 (07081801)
06/29/10
11:46:58
                                                                                                                                                                                                 0.59509 (07081801)
                                                                                                                                                                                                0.59509 (070818U1)
0.59758 (07081801)
0.59864 (07082105)
***
                                                                                                                                                                                                                                                               PAGE 24
**MODELOPTs: NonDFAULT CONC
                                                                                                                                          NODRYDPLT NOWETDPLT
                                                              *** THE \mbox{1ST HIGHEST 1-HR AVERAGE CONCENTRATION} VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl ,
                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                  ** CONC OF CO IN PPM
                          X-COORD (METERS)
373170.44 373200.44 373230.44 373260.44

        0.51436 (07070124)
        0.54866 (07070124)
        0.53872 (07070124)

        0.54727 (07070124)
        0.55220 (07070124)
        0.51451 (07070124)

        0.55017 (07070124)
        0.53531 (07070124)
        0.48850 (05072004)

        0.55155 (07070124)
        0.50568 (05072004)
        0.50785 (05072004)

        0.52263 (05072004)
        0.53028 (05072004)
        0.53771 (07092823)

        0.55415 (07001329)
        0.56159 (07092823)
        0.55589 (07092823)

        0.56415 (07010319)
        0.56159 (07092823)
        0.55000 (07092823)

                                    0.51569 (06092022)
3758441.3
                                                                                                                                                                                                                                                   0.49029 (07070124)
3758441.3
3758411.3
3758381.3
3758351.3
3758321.3
3758291.3
                                   0.51569 (06092022)
0.53456 (06092022)
0.53981 (06092022)
0.56145 (07070124)
0.56195 (07070124)
0.54038 (07070124)
0.57634 (05072004)
                                                                                                                                                                                                                                                   0.49029 (07070124)

0.47124 (05072004)

0.49387 (07092823)

0.53244 (07092823)

0.54841 (07092823)

0.54107 (07092823)

0.51482 (07070204)
3758261.3
3758231.3
3758201.3
3758171.3
3758141.3
                                   0.59210 (05072004)

0.59210 (05072004)

0.59490 (07010319)

0.60699 (07070204)

0.60699 (07070204)

0.60685 (05111007)

0.59997 (05050323)
                                                                                        0.56590 (07010319)
0.57969 (05060722)
0.58282 (07070204)
0.58438 (05111007)
                                                                                                                                           0.55159 (07092823)

0.55722 (07092823)

0.55927 (07070204)

0.56186 (05111007)

0.55578 (05111007)

0.55867 (05050323)

0.56497 (05042124)
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0.51830 (05111007)

0.51743 (05111007)

0.52128 (05050323)

0.52731 (05042124)

0.52686 (05042124)
                                                                                                                                                                                                0.53653 (07070204)
                                                                                       0.56590 (07010319)

0.57969 (05060722)

0.58282 (07070204)

0.58438 (05111007)

0.57813 (05050323)

0.57811 (05042124)

0.58082 (05042124)
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0.53982 (05111007)
0.53647 (05111007)
0.54023 (05050323)
0.54693 (05042124)
                                                                                                                                                                                                 0.54012 (06123019)
 3758081.3
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 3758051.3
                                    0.59874 (05042124)
                                                                                                                                            0.57679 (06123019)
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                                                                                       0.58082 (05042124)
0.60463 (06123019)
0.62674 (06123019)
0.62464 (06123019)
0.60389 (06123019)
0.56277 (06123019)
0.53624 (05051502)
0.5257 (05051502)
                                                                                                                                           0.57679 (06123019)
0.61451 (06123019)
0.62372 (06123019)
0.61117 (06123019)
0.57886 (06123019)
0.52910 (07062824)
3758021.3
                                    0.59432 (05042124)
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0.61282 (06123019)
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0.59424 (06123019)
 3757991 3
                                    0 62133 (06123019)
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0.58921 (06123019)

0.54451 (06123019)

0.51682 (05051502)

0.50710 (05112020)

0.50710 (05112020)

0.49767 (07072501)

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0.49983 (07070302)

0.50273 (05111220)
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3757931.3
3757901.3
3757871.3
                                    0.62133 (06123019)
0.62959 (06123019)
0.61894 (06123019)
0.59093 (06123019)
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0.55907 (06123019)
0.50797 (07062824)
0.50659 (05051502)
                                    0.54799 (07062824)
                                                                                                                                            0.52591 (05051502)
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 3757841.3
                                    0.54125 (05051502)
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0.52379 (06090302)
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                                                                                                                                            0.51432 (06090302)
0.50920 (07072501)
0.50611 (07072702)
0.50870 (07070302)
3757811.3
                                    0.53287 (05112020)
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 3757781.3
3757781.3
3757751.3
3757721.3
                                                                                        0.51925 (07072501)
0.51410 (07072702)
0.51658 (07070302)
0.51956 (07012501)
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0.48811 (07072702)
0.49027 (07070302)
0.49398 (07070302)
                                    0 52756
                                    0.52098
3757691.3
                                    0.52631 (07012501)
                                                                                                                                            0.51129 (05111220)
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3757661.3
                                    0.52860
                                                      (07020421)
                                                                                        0.52180 (07012501)
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0.50547 (07020421)
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 3757631.3
                                    0.53190 (07081124)
                                                                                        0.52438 (07081124)
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                                    0.53190 (07081124)
0.54079 (07072424)
0.54758 (07072424)
0.55275 (06040824)
0.56757 (06040824)
0.57290 (07090305)
                                                                                        0.52438 (07081124)
0.52540 (07072424)
0.53711 (07072424)
0.53772 (07072424)
0.54930 (06040824)
0.55761 (06040824)
0.56431 (07090305)
                                                                                                                                           0.51535 (07081124)
0.51470 (07081124)
0.52397 (07072424)
0.52862 (07072424)
0.52555 (06040824)
0.54225 (06040824)
0.54230 (06040824)
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0.50626 (07081124)

0.50806 (07072424)

0.51758 (07072424)

0.51318 (07072424)

0.52213 (06040824)

0.53100 (06040824)
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0.49711 (07081124)
0.48936 (07072424)
0.50506 (07072424)
0.49713 (06040824)
3757601.3
3757571.3
3757541.3
3757511.3
3757481.3
 3757451.3
                                    0.58426 (07090305)
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3757421.3
                                    0.57562 (07090305)
                                                                                        0.56845 (07090305)
                                                                                                                                            0.55265 (07090305)
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                                                                                                                                                                                                                                                    0.51470 (06040824
3757391.3
                                    0.59632
                                                      (07081001)
                                                                                        0.55882
                                                                                                           (07081001)
                                                                                                                                            0.54834 (07090305)
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                                                                                                                                                                                                                  (07090305)
                                                                                                                                                                                                                                                    0.51903 (07090305
                                                                                        0.57871 (07081001)
0.57621 (06022824)
0.58783 (07072806)
0.59481 (07072806)
                                                                                                                                            0.54497 (07081001)
0.56000 (07081001)
0.55388 (06022824)
0.57906 (07072806)
                                                                                                                                                                                                0.52436 (07090305)
0.52436 (07090305)
0.53034 (07081001)
0.54047 (07081001)
0.54158 (07072806)
                                                                                                                                                                                                                                                    0.51903 (07090305)

0.51947 (07090305)

0.49720 (07090305)

0.51512 (07081001)

0.52064 (07081001)
                                     0.59830
06/29/10
11:46:58
                                                                                                                                                                                                                                                               PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                                               1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                    1ST HIGHEST
                                                                       INCLUDING SOURCE(S):
                                                                                                                              AREA1
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
```

```
IN PPM
                                                                                      ** CONC OF CO
                                                                                                                            X-COORD (METERS)
                                      373170 44
                                                              373200.44 373230.44
                                                                                                                                                                                                       373260.44
                                                                                                                                                                                                                                                             373290.44
                                                                                         0.57565 (07072806)
0.57124 (07091204)
0.57724 (06072803)
0.58384 (06072803)
0.58963 (06071722)
0.58049 (06071722)
0.55490 (07072724)
0.57707 (07062502)
                                     0.59953 (07091204)
0.58904 (07091204)
0.59132 (06071722)
0.59860 (06071722)
                                                                                                                                                0.58488 (0707/2806)
0.56486 (0707/2806)
0.54464 (05062701)
0.56394 (0607/2803)
0.57565 (0607/2803)
0.57626 (0607/1722)
0.55139 (0607/1722)
                                                                                                                                                                                                                                                            0.53155 (07072806)
0.55755 (07072806)
0.56123 (07072806)
0.54627 (07072005)
0.53348 (07072005)
0.53030 (06072803)
0.55096 (06072803)
                                                                                                                                                                                                      0.57358 (07072806)
0.55313 (07072005)
0.53923 (07072005)
3757211.3
3757181.3
 3757151 3
0.53923 (07072005)

0.54807 (06072803)

0.56452 (06072803)

0.55934 (06071722)

0.56509 (06071722)

0.54974 (06071722)

0.53056 (07072724)
                                                                                                                                                                                                                                                             0.55052 (06072803)
0.55197 (06071722)
                                                                                                                                         0.55381 (07072724)
0.56668 (07062502)
                                                                                                                                                                                                                                                            0.54406 (06071722
                                                                                                                                                                                                                                                                      06/29/10
11:46:58
PAGE 26
**MODELOPTS: NonDFAULT CONC
                                                                                                                                              FLAT
NODRYDPLT NOWETDPLT
                                                               *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, ,
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                    ** CONC OF CO IN PPM
 Y-COORD | X-COORD (METERS)
(METERS) | 373320.44 373350.44 373380.44 373410.44
                                                                                                                                                                                                                                                             373440.44
                             3758411.3
3758381.3
3758381.3
3758351.3
3758321.3
3758291.3
3758261.3
3758231.3
3758171.3
3758141.3
3758141.3
3758111.3
3758081.3
3758051.3
3758021.3
                                                                                                                                                                                                     0.45345 (07062824)

0.45802 (05051502)

0.46198 (05051502)

0.45789 (05112020)

0.45611 (06093032)

0.45552 (07072501)

0.44803 (07072501)

0.44830 (07072501)

0.44851 (07070302)

0.45635 (07070302)

0.45755 (07012501)

0.45755 (07012501)

0.455921 (07012501)

0.45556 (07020421)
3757991.3
 3757961.3
3757961.3
3757931.3
3757901.3
3757871.3
3757841.3
3757811.3
                                    0.52164 (06123019)
0.49254 (05051502)
0.49481 (05051502)
0.48943 (05112020)
0.48695 (06090302)
0.48607 (07072501)
0.47715 (07042123)
0.47852 (07072702)
                                                                                          0.48588 (07062824)
0.48382 (05051502)
0.48137 (05051502)
0.47731 (05112020)
0.47585 (06090302)
0.47266 (07072501)
0.46674 (07042123)
                                                                                                                                                0.46799 (07062824)

0.47364 (05051502)

0.46822 (05112020)

0.46562 (06090302)

0.46548 (07072501)

0.46061 (07072501)

0.45610 (07042123)

0.45880 (07072702)
                                                                                                                                                                                                                                                            0.445012 (05051502)
0.44686 (05051502)
0.44666 (05112020)
0.44613 (06090302)
0.44518 (07072501)
0.43494 (07072501)
 3757781.3
3757751.3
                                                                                                                                                                                                                                                             0.43439 (07042123
                                                                                          0.46871 (07072702)
0.46982 (07070302)
0.47955 (07070302)
0.47957 (07012501)
0.47712 (07012501)
0.47675 (07081124)
0.47248 (07081124)
0.47248 (07081124)
0.47248 (07081244)
0.47234 (070702424)
0.47834 (070702424)
0.47834 (070702424)
0.46913 (06040824)
0.48734 (06040824)
0.48734 (06040824)
0.48734 (07090305)
                                                                                           0.46871 (07072702)
                                                                                                                                                                                                                                                             0.43895 (07072702
                                    0.47852 (07072702)
0.48021 (07070302)
0.48490 (07070302)
0.48849 (07012501)
0.48580 (07012501)
0.48727 (07081124)
                                                                                                                                                 0.45922 (07070302)
0.46600 (07070302)
0.46823 (07012501)
0.46824 (07012501)
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0.44667 (07070302)
0.44701 (05111220)
0.45002 (07012501)
3757721.3
 3757691 3
                                                                                                                                                0.46824 (07012501)

0.46615 (07020421)

0.46407 (07081124)

0.45218 (07072424)

0.47036 (07072424)

0.47036 (07072424)

0.45694 (07072424)

0.46684 (06040824)

0.47618 (06040824)

0.47618 (06040824)

0.46632 (06040824)
3757601.3
                                                                                                                                                                                                       0.45566 (07020421)
                                                                                                                                                                                                                                                             0.44467 (07020421
3757571.3
                                     0.48042 (07081124)
                                                                                                                                                                                                        0.45518 (07081124)
0.44040 (07081124)
                                                                                                                                                                                                                                                             0.44583 (07081124)
0.43437 (07081124)
                                    0.48042 (07081124)

0.48925 (07072424)

0.49507 (07072424)

0.49424 (06040824)

0.49424 (06040824)

0.49508 (07020222)
 3757541.3
3757541.3
3757511.3
3757481.3
3757451.3
3757421.3
3757391.3
                                                                                                                                                                                                      0.44040 (07081124)

0.45370 (07072424)

0.46044 (07072424)

0.44970 (07072424)

0.44225 (06040824)

0.46065 (06040824)

0.46065 (06040824)
                                                                                                                                                                                                                                                            0.43437 (07081124)
0.43609 (07072424)
0.44863 (07072424)
0.4422 (07072424)
0.42089 (07072424)
0.44060 (06040824)
3757361.3
                                      0.50603 (07090305)
                                                                                           0.48504 (07090305)
                                                                                                                                                                                                                                                             0.45003 (06040824)
0.47836 (07073003)
0.48797 (07073003)
0.47966 (07073003)
                                                                                           0.49028 (07090305)
0.48718 (07073003)
                                                                                                                                                                                                       0.45934 (07073003)
                                                                                                                                                                                                                                                             0.44089 (06040824
                                                                                                                                                                                                                                                            0.46413 (07073003)
0.47945 (07073003)
06/29/10
11:46:58
                                                                                                                                                                                                      0.48025 (07073003)
0.48399 (07073003)
                                                                                                                                                                                                                                                                       PAGE 27
**MODELOPTS: NonDFAULT CONC
                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                        THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl ,
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                   ** CONC OF CO
                                                                                                                           IN PPM
                          X-COORD (METERS)
373320.44 373350.44 373380.44 373410.44 373440.44
                                                                                          0.50895 (07122006) 0.48762 (07122006) 0.51063 (07122006) 0.50550 (07122006) 0.50980 (07072806) 0.50314 (07072806) 0.49842 (07072806) 0.33511 (07072806) 0.52048 (07072806) 0.52888 (07072805) 0.51861 (07072806) 0.51861 (07072806)
                                     0.51619 (07013006)
                                                                                                                                                                                                      0.46828 (07073003)
3757241.3
                                                                                                                                        0.48762 (07122006)
0.50555 (07122206)
0.50316 (07122006)
0.49842 (07072806)
0.52048 (07072806)
0.52182 (07072806)
0.51911 (07072005)
0.51009 (07072005)
0.51314 (07092704)
0.51730 (07092704)
                                                                                                                                                                                                                                                            0.47673 (07073003)
3757241.3
3757211.3
3757181.3
3757151.3
3757121.3
3757091.3
                                    0.51619 (07013006)
0.52086 (07072806)
0.54553 (07072806)
0.54830 (07072806)
0.53812 (07072005)
0.52651 (07072005)
0.51130 (06072803)
                                                                                                                                                                                                      0.46828 (07073003)

0.48623 (07122006)

0.50047 (07122006)

0.49417 (07122006)

0.48699 (07072806)

0.50779 (07072806)

0.50854 (07072806)
                                                                                                                                                                                                                                                            0.47673 (07073003)

0.45430 (07122006)

0.48357 (07122006)

0.49406 (07122006)

0.48389 (07122006)

0.47577 (05082703)

0.49513 (07072806)
                                                                                           0.51861 (07072005)
0.50876 (07072005)
                                                                                                                                                                                                                                                             0.49534 (07072806
                                                                                                                                                                                                       0.50102 (07072005)
                                                                                                                                                                                                                                                             0.49813 (07072005
                                                                                                                                                                                                                                                            0.49613 (07072005)
0.49160 (07072005)
06/29/10
11:46:58
PAGE 28
**MODELOPTs: NonDFAULT CONC
                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                *** THE \ \mbox{1ST HIGHEST }\ 1-HR AVERAGE CONCENTRATION \ \mbox{VALUES FOR SOURCE GROUP:}\ \mbox{ALL INCLUDING SOURCE(S):}\ \mbox{AREAl}\ \ ,
                                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                      ** CONC OF CO
                                                                                                                           TN PPM
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X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372922.94 3757605.69 0.66474 (0606102) 372861.54 3757481.08 0.92713 (06112204)
372438.96 3757746.55 0.53415 (06070724) 372431.74 3757838.64 0.56578 (07090203)
372435.35 3757928.94 0.61281 (07030805)

*** ARRMOD - VERSION 09292 *** *** Site 15 - CO

***
                                                                                                                                                                                                                                                                                                                                     PAGE 29
  **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                 NODRYDPIAT NOWETDPIAT
                                                                                *** THE \, 1ST HIGHEST 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                            ** CONC OF CO IN PPM
    Y-COORD (METERS)
                                               X-COORD (METERS)
371970.44 372000.44 372030.44
                                                                                                                                                                                                                                                 372060.44
                                                                                                                                                                                                                                                                                                                          372090.44
                                              0.09570 (06071408) 0.09622 (06071408) 0.09400 (06071408) 0.09729 (06071408) 0.08915 (06071408) 0.09486 (06071408) 0.08669 (06110124) 0.08930 (06071408) 0.11376 (06110124) 0.09452 (06110124) 0.11376 (06110124) 0.10924 (06110124) 0.11376 (06110124) 0.10925 (06110124) 0.12037 (06110124) 0.12037 (06110124) 0.12037 (06110124) 0.12037 (06110124) 0.12516 (06110124) 0.12512 (06110124) 0.12512 (06110124) 0.12512 (06110124)
                                                                                                                                                                              0.09429 (06071408) 0.08985 (06071408)
                                                                                                                                                                         0.09429 (06071408)

0.09834 (06071408)

0.09874 (06071408)

0.09556 (06071408)

0.08927 (06071408)

0.10255 (06110124)

0.11263 (06110124)

0.12525 (06110124)

0.12525 (06110124)

0.12069 (06110124)

0.12061 (07020624)

0.13987 (07020624)

0.13987 (07020624)

0.1566 (07020624)
                                                                                                                                                                                                                                                    0.09895 (06071408)

0.09684 (06071408)

0.10035 (06071408)

0.10002 (06071408)

0.09607 (06071408)

0.09607 (06110124)

0.11062 (06110124)

0.12313 (06110124)

0.13016 (06110124)

0.13164 (06110124)

0.12804 (06110124)

0.11978 (06110124)

0.11978 (06110124)

0.11978 (06110124)

0.11978 (070102624)

0.15759 (07020624)
                                                                                                                                                                                                                                                                                                                        0.08797 (06062808)
  3758441.3
3758411.3
3758381.3
3758351.3
3758321.3
3758291.3
                                                                                                                                                                                                                                                                                                                        0.08797 (06062808)

0.09265 (06071408)

0.09933 (06071408)

0.10223 (06071408)

0.10112 (06071408)

0.09638 (06071408)

0.10252 (06110124)
  3758231.3
3758201.3
                                                                                                                                                                                                                                                                                                                        0.11856 (06110124)
0.12939 (06110124)
                                                                                                                 0.12542 (06110124)
0.12542 (06110124)
0.12089 (06110124)
0.11198 (06110124)
0.12317 (07020624)
0.14055 (07020624)
                                                0.11328 (06110124)
0.10806 (07020624)
0.12488 (07020624)
0.14031 (07020624)
                                                                                                                                                                                                                                                                                                                        0.13436 (06110124)
0.13380 (06110124)
0.12828 (06110124)
  3758171.3
   3758141.3
   3758081.3
                                                                                                                                                                                                                                                                                                                         0.13546 (07020624
  3758051.3
                                                0.15228 (07020624)
                                                                                                                  0.15488 (07020624)
                                                                                                                                                                                    0.15666 (07020624)
                                                                                                                                                                                                                                                       0.15750 (07020624)
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  3758021.3
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                                                                                                                                                                                                                                                                                                                                      PAGE
  **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                 *** THE \, 1ST HIGHEST 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                          ** CONC OF CO IN PPM
    r-COORD (METERS)
                                  A-COOK (MELEKS)
371970.44 372000.44 372030.44 3
                                                                                                                                                                                                                                                       372060.44
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11:46:58
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  **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                  FLAT
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                           INCLUDING SOURCE(S): AREA1 ,
                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                        ** CONC OF CO IN PPM
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*** AERMOD - VERSION 09292 *** *** Site 15
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11:46:58
PAGE 32
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                  NODRYDPLT NOWETDPLT
                                                          *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                              ** CONC OF CO IN PPM
                                  X-COORD (METERS)
372120.44 372150.44 372180.44 372210.44
  V-COOPD
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        0.20032 (06053108)
        0.22027 (06053108)
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        0.24637 (06053108)
        0.25032 (06053108)

        0.21626 (06053108)
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        0.23989 (06053108)
        0.24283 (06053108)
        0.23484 (06053108)

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        0.2087 (06053108)
        0.1888 (06053108)

        0.22019 (06053108)
        0.21388 (06053108)
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11:46:58
PAGE 33
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                  NODRYDPLT NOWETDPLT
                                                           *** THE
                                                                              1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                    INCLUDING SOURCE(S):
                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                            ** CONC OF CO
                                                                                                                      IN PPM
                                                                                                                         X-COORD (METERS)
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**** AERMOD - VERSION 09292 *** *** Site 15 - CO
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**MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                      *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                  INCLUDING SOURCE(S): AREA1
                                                                                                                    *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                     ** CONC OF CO IN PPM
                                          X-COORD (METERS)
372270.44 372300.44 372330.44 372360.44
    Y-COORD
    Y-COORD |
(METERS) |
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        0.24675 (06053108)
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        0.19688 (06053108)
        0.18851 (05051808)
        0.19888 (05051808)
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*** AERMOD - VERSION 09292 *** Site 15 - CO
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**MODELOPTS: NonDEAULT CONC
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                                                                                                      *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                 INCLUDING SOURCE(S): AREA1 ,
                                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                  ** CONC OF CO IN PPM
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11:46:58
PAGE 36
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                                                     *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                    ** CONC OF CO IN PPM
                                                           X-COORD (METERS)
372420.44 372450.44 372480.44 372510.44 372540.44
    Y-COORD
                                                                                                                                              0.21875 (05041608) 0.22757 (05041608) 0.22666 (05041608) 0.21376 (05041608) 0.20896 (05041608) 0.21167 (05041608) 0.20527 (05041608) 0.18850 (05041608) 0.19661 (05041608) 0.19449 (05041608) 0.18427 (05041608) 0.16697 (05032508) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (05041608) 0.18726 (0504
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**MODELOPTs: NonDFAULT CONC
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                                                                                                *** THE 1\text{ST} HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl ,
                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                             ** CONC OF CO
                                                                                                                                                                                          IN PPM
   Y-COORD
                                                                                                                                                                                                        X-COORD (METERS)
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                                                          372570.44 372600.44 372630.44
  (METERS)
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3757871.3
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                                                                                                                                                                                                                                                                                                                                                                                                         06/29/10
11:46:58
                                                                                                                                                                                                                                                                                                                                                                                                           PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
                                                                                                 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                            INCLUDING SOURCE(S): AREA1
                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                             ** CONC OF CO IN PPM
                                     X-COORD (METERS)
372570.44 372600.44 372630.44 372660.44 372690.44
   Y-COORD |
(METERS) |
                                                      0.19434 (05032508) 0.20862 (05032508) 0.20126 (05032508) 0.23948 (07081508) 0.35256 (07081508) 0.18946 (05032508) 0.19527 (05032508) 0.18171 (05032508) 0.24010 (07081508) 0.34489 (07081508) 0.18196 (05032508) 0.18078 (05032508) 0.17320 (05102624) 0.23946 (07081508) 0.33661 (07081508) 0.17257 (05032508) 0.16520 (05032508) 0.16727 (05102624) 0.23946 (07081508) 0.32795 (07081508) 0.16214 (07081508) 0.32795 (07081508) 0.31914 (07081508) 0.31601 (05032508) 0.161814 (07081508) 0.23535 (07081508) 0.31914 (07081508)
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                                                                                                                                                                                                                                                                                                                                                                                                           PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                                *** THE 1ST HIGHEST 8-HR AVERAGE COLLINCTUDING SOURCE(S): AREAL ,
                                                                                                                                 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                             ** CONC OF CO IN PPM
                                                                                                                                                                                                   X-COORD (METERS)
    Y-COORD
  Y-COORD |
(METERS) |
                                      372720.44 372750.44 372780.44 37280.44 372840.44
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**MODELOPTs: NonDFAULT CONC
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                                                                                                                                                                     NODRYDPLT NOWETDPLT
                                                                          *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                   INCLUDING SOURCE(S): AREA1
                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                ** CONC OF CO
                                                                                                                                              IN PPM
                                                                                                                                                         X-COORD (METERS)
  Y-COORD
                                             372720.44 372750.44 372780.44
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 *** AERMOD - VERSION 09292 ***
**MODELOPTs: NonDFAULT CONC
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                                                                          *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREA1 \, ,
                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                              IN PPM
                                                                                                   ** CONC OF CO
                                                                                                                                                    X-COORD (METERS)
  Y-COORD
                                             372870.44 372900.44 372930.44 372960.44
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FI.AT

**MODELOPTS: NonDEAULT CONC

NODRYDPLT NOWETDPLT

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*** THE
                                                                                                        1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                        INCLUDING SOURCE(S):
                                                                                                                                                AREA1
                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                     ** CONC OF CO IN PPM
   Y-COORD
                                                                                                                                                              X-COORD (METERS)
                                               372870.44 372900.44 372930.44 372960.44 372990.44
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                                                                             *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREA1 \, ,
                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                        ** CONC OF CO
                                                                                                                                                    IN PPM
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   Y-COORD
                                X-CUOKU (METERS)
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PAGE 44
 **MODELOPTs: NonDFAULT CONC
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                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                             *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREA1 \, ,
                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                   ** CONC OF CO IN PPM
                                X-COORD (METERS)
373020.44 373050.44 373080.44 373110.44 373140.44
   Y-COORD
                                             0.14303 (06072808) 0.12932 (06072808) 0.11583 (06072808) 0.11215 (06071724) 0.10745 (06071724) 0.13938 (06072808) 0.12818 (06072808) 0.11665 (06072808) 0.10823 (06071724) 0.10944 (06071724) 0.14145 (05081908) 0.12537 (06072808) 0.11533 (06072808) 0.10630 (06072808) 0.10712 (06071724) 0.14226 (05081908) 0.12822 (05081908) 0.11272 (0607172808) 0.10462 (06072808) 0.10664 (06071724)
 3757241.3
                                                                                                                                                                             0.11683 (06072808)
0.11665 (06072808)
0.11533 (06072808)
0.11272 (06072808)
0.10963 (06072808)
0.10983 (05081908)
 3757211.3
3757181.3
                                                                                                                                     (05081908)
                                                                                                                                                                    0.11342 (USGGL.
0.11536 (USG81908)
0.11552 (USG81908)
0.11400 (USG81908)
                                              0.13129
                                                                   (05081908)
                                                                                                              0.12726 (05081908)
                                                                                                                                                                                                                                               0.09602
                                                                                                                                                                                                                                                                     (06072808)
                                                                                                                                                                                                                                                                                                                0.08949
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                                             0.12407 (05081900,

0.11573 (05081908) 0.12062 (0

0.10672 (05081908) 0.11500 (0

0.10672 *** *** Site 15 - CO
 3757031.3
                                                                                                              0.12479 (05081908)
                                                                                                                                                                                                                                               0.09888 (05081908)
                                                                                                                                                                                                                                                                                                                0.08661 (06072808
 3757001.3
                                                                                                              0.12062 (05081908)
0.11500 (05081908)
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0.10463 (05081908)
***
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3756971.3 | 0.10672 (0508)
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                0.08958 (05081908
                                                                                                                                                                                                                                                                                                                            06/29/10
11:46:58
PAGE 45
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                            NODRYDPLT NOWETDPLT
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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUD: ALL

INCLUDING SOURCE(S): AREA1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO 373260.44 373170.44 373200.44 373290.44 (METERS) 44 373230.44 -----0.08013 (05072008) 0.09189 (05072008) 0.10264 (05072008) 0.11146 (05072008) 0.11748 (05072008) 0.07538 (07091724) 3758441 3 0.08915 (05072008) 3758441.3 3758411.3 3758381.3 3758351.3 0.07538 (07091724) 0.07367 (05030608) 0.08272 (05030608) 0.09062 (05030608) 0.08915 (05072008) 0.09874 (05072008) 0.10644 (05072008) 0.11152 (05072008) 3758321.3 0.10042 (05072008) 0.11343 (05072008 3758291.3 0.11547 (05072008) 0.12247 (05072008) 0.12388 (05072008) 0.12003 (05072008) 0.11187 (05072008 3758261.3 0.12855 (05072008) 0.13077 (05072008) 0.12717 (05072008) 0.11875 (05072008) 0.10688 (05072008 0.13077 (05072008) 0.13490 (05072008) 0.13431 (05072008) 0.12898 (05072008) 0.13654 (06101008) 0.16474 (06101008) 0.18858 (06101008) 0.10688 (05072008)
0.10156 (07070508)
0.11847 (07070508)
0.13945 (06101008)
0.15792 (06101008)
0.17124 (06101008) 0.12621 (05072008) 0.12698 (05072008) 0.12098 (05072008) 0.12196 (07070508) 0.14724 (06101008) 3758231 3 0 13821 (05072008) 0.11364 (05072008) 0.11364 (05072008) 0.11119 (07070508) 0.13180 (06101008) 0.15433 (06101008) 0.17277 (06101008) 0.18447 (06101008) 3758231.3 3758201.3 3758171.3 3758141.3 0.13821 (05072008) 0.14329 (05072008) 0.14312 (05072008) 0.13768 (05072008) 0.15443 (06101008) 0.17075 (06101008) 0.18839 (06101008) 3758081.3 0.18435 (06101008) 0.17754 (06101008 0.18447 (05101008) 0.18794 (06101008) 0.18731 (06101008) 0.17187 (06101008) 0.15516 (06101008) 0.13664 (07062124) 0.13254 (05071508) 0.13496 (05071508) 0.13338 (05071508) 0.13338 (05071508) 3758081.3 3758051.3 3758021.3 3757991.3 3757961.3 3757931.3 0.18435 (06101008) 0.20748 (06101008) 0.22034 (06101008) 0.22215 (06101008) 0.21461 (06101008) 0.19983 (06101008) 0.17900 (06101008) 0.18858 (06101008) 0.20441 (06101008) 0.21028 (06101008) 0.20654 (06101008) 0.19499 (06101008) 0.17733 (06101008) 0.15456 (06101008) 0.19760 (06101008) 0.19760 (06101008) 0.19766 (06101008) 0.18954 (06101008) 0.17496 (06101008) 0.15532 (06101008) 0.17624 (06101008) 0.17623 (06101008) 0.16796 (06101008) 0.15413 (06101008) 0.13610 (06101008) 0.12614 (07062124) 0.12928 (05071508) 0.13710 (07062124) 3757871.3 0.15266 (06101008) 0.14335 (05071508) 0.14383 (05022824) 0.13919 (05071508) 0.13063 (05071508 3757841.3 0.15178 (05022824) 0.13860 (05071508) 0.12792 (05071508 0.14383 (05022824) 0.14822 (05022824) 0.14541 (05022824) 0.14696 (05111224) 0.14470 (05111224) 0.13764 (05111224) 3757811.3 3757781.3 3757751.3 3757721.3 0.15782 (05022824) 0.15631 (05022824) 0.15325 (05111224) 0.15073 (05111224) 0.13881 (05022824) 0.13522 (05111224) 0.14069 (05111224) 0.13879 (05111224) 0.12082 (05022824) 0.12260 (05111224) 0.12848 (05111224) 0.12965 (05022824) 0.12881 (05111224) 0.13451 (05111224) 0.13307 (05111224) 0.12755 (05111224 3757691.3 0.14340 (05111224) 0.13219 (05111224) 0.12705 (05111224) 0.11857 (05111224) 0.12221 (05111224 3757661.3 0.13623 (06051424) 0.12863 (06051424) 0.11667 (06051424) 0.12298 (05111224) 0.11447 (05111224 0.11447 (05111224) 0.10478 (05111224) 0.09517 (07081124) 0.08670 (07072424) 0.08570 (07110708) 0.08387 (07110708) 0.08709 (05070448) 3757631.3 0.12328 (06051424) 0.11169 (05111224) 0.10811 (05111224) 3757631.3 3757601.3 3757571.3 3757541.3 3757511.3 3757481.3 0.11667 (06051424) 0.10374 (07072424) 0.10163 (06030808) 0.10434 (06030808) 0.11357 (05070408) 0.12154 (05090408) 0.11169 (05111224) 0.09967 (07081124) 0.09278 (07090708) 0.09591 (06030808) 0.10070 (05070408) 0.10914 (05090408) 0.10811 (05111224) 0.09742 (07081124) 0.08974 (07072424) 0.08835 (07110708) 0.08922 (06030808) 0.09781 (05070408) 0.10879 (07090708) 0.11179 (06030808) 0.11729 (05070408) 0.12675 (05070408) 0.13392 (05090408) 3757451.3 0.14192 (05090408) 0.13112 (05090408) 0.13687 (05090408) 0.12028 (05090408) 0.10926 (05090408) 0.09790 (05090408 0.10926 0.11820 0.12367 0.12634 0.12656 0.12375 3757421 3 0 14590 (05090408) 0 12761 (05090408) (05090408) 0 10851 (05090408 0.12761 (05090408) 0.13161 (05090408) 0.13282 (05090408) 0.13100 (05090408) 0.12526 (05090408) (05050100 (05090408) 0.11553 (05090408 0.13927 (05090408) 0.13844 (05090408) 0.13364 (05090408) 0.12426 (05090408) 0.11115 (05090408) 0.11553 0.11953 0.12118 0.12047 (05090408) 0.11667 (05090408) 0.12373 (05090408) 0.11714 (05090408) 0.11539 (05090408) 06/29/10 11:46:58 FLAT NODRYDPLT NOWETDPLT **MODELOPTS: NonDFAULT CONC THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , *** THE *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO IN PPM X-COORD (METERS) Y-COORD (METERS) 373170.44 373200.44 373230.44 3 373260.44 373290.44 0.09973 (07072008) 0.09656 (05090408) 0.10290 (06071724) 0.09682 (07072008) 0.10507 (06071724) 0.09803 (05071724) 0.10521 (06071724) 0.10220 (06071724) 0.10268 (05090408) 0.09300 (07072008) 0.09394 (07072008) 0.09297 (06071724) 0.10698 (05090408) 0.09485 (05090408) 0.09018 (07072008) 0.09112 (07072008) 0.10931 (05090408) 0.09908 (05090408) 0.08901 (07013008) 0.08740 (07072008) 3757211.3 3757181.3 3757151.3 0.09799 (06071724) 0.09799 (06071724) 0.09960 (06071724) 0.0927 (06071724) 0.09227 (06071724) 0.08407 (06071724) 0.07387 (06071724) 0.08924 (07092708) 0.08910 (07092708) 0.0896 (06071724) 0.09243 (06071724) 0.09280 (06071724) 3757121.3 0.10036 (06071724) 0.10266 (06071724) 0.08894 (07092708) 3757121.3 0.10036 (06071724) 0.10266 (03757091.3 0.09197 (06071724) 0.09931 (073757061.3 0.08545 (06072808) 0.09248 (03757061.3 0.08179 (06072808) 0.08288 (03757001.3 0.07856 (06072808) 0.07555 (03756971.3 0.07618 (06072808) 0.07555 (075686) 0.07618 (06072808) 0.07555 (075686) 0.07618 (06072808) 0.07555 (075686) 0.07618 (06072808) 0.0 0.10266 (06071724) 0.09931 (06071724) 0.09248 (06071724) 0.08288 (06071724) 0.07555 (06072808) 0.07263 (07062508) 0.09354 (06071724) 0.09615 (06071724) 0.09542 (06071724) 0.09144 (06071724) 0.08460 (06071724) 0.09354 (06071724) 0.09008 (06071724 06/29/10 11:46:58 PAGE **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF CO X-COORD (METERS) Y-COORD 373320.44 373350.44 373380.44 : (METERS) 373410.44 373440.44
 0.09500 (05072008)
 0.09724 (05072008)
 0.09591 (05072008)
 0.09147 (05072008)

 0.10170 (05072008)
 0.10076 (05072008)
 0.09637 (05072008)
 0.08926 (05072008)

 0.10596 (05072008)
 0.10164 (05072008)
 0.09427 (05072008)
 0.08481 (05072008)

 0.10731 (05072008)
 0.09968 (05072008)
 0.08967 (05072008)
 0.07837 (05072008)
 3758441.3 | 3758411.3 | 3758381.3 | 3758351.3 | 0.08461 (05072008) 0.08032 (05072008) 0.07423 (05072008) 0.07936 (07070508) 0.09495 (05072008) 0.09495 (05072008) 0.08773 (05072008) 0.10053 (07070508) 0.11425 (06101008) 0.13140 (06101008) 0.08286 (05072008) 0.09277 (07070508) 0.10562 (07070508) 0.11987 (06101008) 0.13417 (06101008) 3758321.3 3758291.3 0.10554 (05072008) 0.08574 (07070508) 0.09124 (07070508 0.10125 (07070508) 0.11333 (06101008) 0.12468 (06101008) 0.13293 (06101008) 0.10066 (05072008) 0.09813 (07070508) 3758261.3 3758231.3 3758201.3 0.10066 0.09303 0.10907 0.12612 (05072008) (05072008) (07070508) (06101008) 0.10053 0.11425 0.13140 0.14587 0.10947 (06101008) 0.12331 (06101008) 0.13459 (06101008) 0.14194 (06101008) 3758171.3 0.14410 (06101008) (06101008) 0.14502 (06101008) 0.13702 (06101008 3758141.3 0.15828 (06101008) 0.15580 (06101008) 0.15099 (06101008) 0.14434 (06101008) 0.13638 (06101008 3758111.3 0.16673 (06101008) 0.15987 (06101008) 0.15127 (06101008) 0.14150 (06101008) 0.13378 (06101008) 0.13105 (06101008) 0.12162 (06101008) 3758081.3 0.16836 (06101008) 0.15761 (06101008) 0.14591 (06101008) 0.13378 (06101008)
0.12208 (06101008)
0.11428 (07062124)
0.10815 (07062124)
0.10783 (05071508)
0.11370 (05071508)
0.11487 (05071508)
0.11170 (05071508) 3758051.3 3758021.3 3757991.3 0.13701 0.14952 0.13671 0.12405 0.13568 (06101008) 0.12167 (06101008) 0.11607 (07062124) 0.11121 (07062124) 0.10745 (07062124) 0.10037 (07062124) 0.16321 (06101008) (06101008) 0.16321 (06101008) 0.15226 (06101008) 0.13685 (06101008) 0.12573 (07062124) 0.12092 (05071508) 0.12590 (05071508) 0.12615 (05071508) (06101008) (07062124) 0.10641 (05071508 3757961.3 0.11658 (07062124) 0.10895 (05071508) 0.11631 (05071508) 0.11871 (05071508) 0.11669 (05071508) 0.11089 (05071508) 0.11087 (05071508) 0.10658 (05071508) 3757931.3 0.11872 (05071508) 3757901.3 3757871.3 0.12238 (05071508) 0.12151 (05071508)

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0.12224 (05071508)
0.11367 (05071508)
0.11664 (05111224)
                                                                    0.11636 (05071508)
0.10648 (05071508)
0.11094 (05111224)
                                                                                                          0.11032 (05071508)
0.09930 (05071508)
0.10550 (05111224)
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0.09223 (05071508)
0.10035 (05111224)
  3757841.3 |
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  3757811.3
                                                                                                                                                                                         0.08535 (05071508)
0.09548 (05111224)
  3757781.3
  3757751.3
                             0.12264 (05111224)
                                                                    0.11703 (05111224)
                                                                                                           0.11168 (05111224)
                                                                                                                                                   0.10659 (05111224)
                                                                                                                                                                                          0.10176 (05111224)
                            0.12264 (05111224)
0.12227 (05111224)
0.11765 (05111224)
0.11064 (05111224)
0.10167 (05111224)
0.09291 (07081124)
                                                                                                           0.11244 (05111224)
0.10928 (05111224)
0.10368 (05111224)
0.09600 (05111224)
                                                                                                                                                  0.10788 (05111224)
0.10788 (05111224)
0.10543 (05111224)
0.10050 (05111224)
0.09340 (05111224)
                                                                    0.11723 (05111224)
0.11335 (05111224)
0.10705 (05111224)
0.09874 (05111224)
  3757631.3
                                                                                                                                                                                          0.09094 (05111224
                                                                                                           0.08836 (07081124)
  3757601.3
                                                                    0.09064 (07081124)
                                                                                                                                                   0.08604 (07081124)
                                                                                                                                                                                          0.08370 (07081124
                                                                    0.09064 (07081124)
0.08350 (07081124)
0.07997 (07110708)
0.07993 (07110708)
0.07678 (07110708)
0.07587 (05070408)
0.08775 (05090408)
                                                                                                           0.08836 (07081124)
0.08194 (07081124)
0.07687 (07110708)
0.07770 (07110708)
0.07558 (07110708)
0.07005 (07110708)
0.07694 (05090408)
                                                                                                                                                                                         0.08370 (07081124)
0.07871 (07081124)
0.07106 (07081124)
0.07271 (07110708)
0.07250 (07110708)
0.06927 (07110708)
0.06285 (07110708)
  3757571.3
                             0.08502 (07081124)
                                                                                                                                                   0.08034 (07081124)
                            0.08502 (07081124)
0.08291 (07110708)
0.08199 (07110708)
0.07770 (07110708)
0.08627 (05090408)
0.09835 (05090408)
                                                                                                                                                  0.08034 (07081124)
0.07359 (07110708)
0.07529 (07110708)
0.07415 (07110708)
0.06983 (07110708)
0.06656 (05070408)
0.07854 (05090408)
  3757541 3
  3757511.3
3757481.3
3757451.3
  3757421.3
  3757391.3
                             0.10705 (05090408)
                                                                    0.09805 (05090408)
                                                                                                           0.08849 (05090408)
                                                                                                                                                                                          0.06857 (05090408
  3757361.3
                             0.11249 (05090408)
                                                                    0.10509 (05090408)
                                                                                                           0.09714 (05090408)
                                                                                                                                                   0.08858 (05090408)
                                                                                                                                                                                          0.07950 (05090408
                                                                                                                                                  0.08858 (05090400)
0.09581 (05090408)
0.10037 (05090408)
0.10276 (05090408)
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0.08815 (05090408)
0.09418 (05090408)
0.09785 (05090408)
06/29/10
11:46:58
                                                                                                           0.10281 (05090408)
0.10281 (05090408)
0.10602 (05090408)
0.10722 (05090408)
  3757331 3
                             0 11537 (05090408)
                                                                    0 10928 (05090408)
  3/5/33.3 0.11614 (05090408) 0.10928 (05090408) 3757301.3 0.11614 (05090408) 0.11127 (05090408) 3757271.3 0.11450 (05090408) 0.11121 (05090408) *** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                                                                                                                 PAGE 48
  **MODELOPTS: NonDEAULT CONC
                                                                                                          FLAT
                                                                                                          NODRYDPLT NOWETDPLT
                                                       THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                ** CONC OF CO IN PPM
                                                                                              IN PPM

X-COORD (METERS)

373380.44

373410.44

373440.
                        373320.44 373350.44 373380.44 373410.
                                                                                                                                                                                           373440.44
   (METERS)
                            0.10976 (05090408) 0.10862 (05090408) 0.10182 (05090408) 0.10302 (05090408) 0.09500 (07013008) 0.09757 (07013008) 0.08518 (07013008) 0.09145 (07013008) 0.08484 (07092708) 0.08145 (07013008) 0.08849 (07092708) 0.0837 (07092708) 0.08894 (07092708) 0.08747 (07092708) 0.08894 (07092708)
                                                                                                       3757241.3
                                                                                                          0.10632 (05090408)
0.10281 (05090408)
0.09699 (07013008)
0.09449 (07013008)
0.08791 (07013008)
0.07784 (07013008)
                                                                                                                                                  0.10321 (05090408)
0.10146 (05090408)
0.09710 (05090408)
0.09449 (07013008)
0.09137 (07013008)
0.08443 (07013008)
  3757241.3
3757211.3
3757181.3
3757151.3
                                                                                                                                                                                         0.09921 (05090408)
0.09661 (05090408)
0.09179 (07013008)
0.09189 (07013008)
  3757091.3
                                                                                                                                                                                          0.08823 (07013008
                                                                                                     0.08173 (07092708)
0.08625 (07092708)
0.08782 (07092708)
0.08626 (07092708)
  3757061.3
                                                                                                                                                  0.07436 (07013008)
                                                                                                                                                                                          0.08102 (07013008
                                                                                                                                                                                         0.08102 (07013008)
0.07103 (07013008)
0.07806 (07092708)
0.08328 (07092708)
06/29/10
11:46:58
  0.07994 (07092700)
0.08484 (07092708)
0.08692 (07092708)
***
                                                                                                                                                   0 07994 (07092708)
                                                                                                                                                                                                 PAGE 49
  **MODELOPTS: NonDFAULT CONC
                                                                                                         FLAT
                                                                                                         NODRYDPLT NOWETDPLT
                                                *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF CO IN PPM
                                                           CONC (YYMMDDHH) X-COORD (M) Y-COORD (M)

0.26838 (05081208) 372861.54 3757481.08
0.24367 (07030608) 372431.74 3757838.64
0.25587 (07020624)
         X-COORD (M) Y-COORD (M)
                                                                                                                                                                      CONC (YYMMDDHH)
            372922.94 3757605.69
             372438.96 3757746.55
372435.35 3757928.94
                                                                                                                                                                       0.28424 (07020624)
  *** AERMOD - VERSION 09292 ***
                                                       *** Site 15 - CO
                                                                                                                                                                                                 06/29/10
                                                                                                        FLAT
NODRYDPLT NOWETDPLT
                                                                              *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
                                                          ** CONC OF CO
                                                                                     DATE
                                                    AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
GROUP ID
                                                             1.06469 ON 07070206: AT ( 372780.44, 3758141.30, 10.00, 10.00, 0.00) GC UCARTI
         HIGH 1ST HIGH VALUE IS
  *** RECEPTOR TYPES: GC = GRIDCART
  GP = GRIDPOLR

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

*** AERMOD - VERSION 09292 ***
                                                         *** Site 15 - CO
                                                                                                                                                                                                 06/29/10
                                                                                                                                                                                                  PAGE 51
  **MODELOPTs: NonDFAULT CONC
                                                                                                         FLAT
                                                                                                         NODRYDPLT NOWETDPLT
                                                                            *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***
                                                          ** CONC OF CO
                                                                                         IN PPM
                                                                                     DATE
                                                    AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
GROUP ID
ALL HIGH 1ST HIGH VALUE IS 0.60872 ON 07081508: AT ( 372750.44, 3757451.30, 10.00, 10.00, 0.00) GC UCART1
 *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                                                                                                                  11:46:58
                                                                                                                                                                                                 PAGE 52
  **MODELOPTS: NonDEAULT CONC
                                                                                                          NODRYDDIA NOWETDDIA
```

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.5.0

** Lakes Environmental Software Inc.

** Date: 6/29/2010

** File: C:\Documents and Settings\ssilverman\Desktop\Site 15\N02.ADI

**
 ***********
** AERMOD Control Pathway

***

**

**
CO STARTING
    STARTING
TITLEONE Site 15 - NO2
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 ANNUAL
URBANOPT 9862049 Los_Angeles_County
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
 ***********
** AERMOD Source Pathway
***
**
**
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION AREAL AREA 372695.400 3757574.990 0.0

** DESCRSRC Exhuast
** DESCRSRC Exhuast

** Source Parameters **
SCOPARM AREA1 1,97E-06 4.100 135.440 299.009 0.000
URBANSRC AREA1
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
SCOROUT FAILS

**
 RE STARTING
    GRIDCART UCART1 STA
                              XYINC 371970.44 50 30.00 3756971.30 50 30.00
XYINC 371970.44 50
GRIDCART UCARTI EN

** DESCRREC " " ""

DISCCART 372922.94 3757605.69
DISCCART 372438.96 3757746.55
DISCCART 372431.74 3757838.64
DISCCART 372431.74 3757838.64
DISCCART 372431.74 3757838.64
RE FINISHED
 *********
** AERMOD Meteorology Pathway
***
**
    STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.FFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
 **********
** AERMOD Output Pathway
***
**
**
OU STARTING
    STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
AUTO-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
PLOTFILE ANNUAL ALL NO2.AD\ANOOGALL.PLT
  *******
  *** SETUP Finishes Successfully ***
 06/29/10
                                                                                                                                                                                 13:04:55
                                                                                                                                                                                 PAGE
  **MODELOPTS: NonDFAULT CONC
                                                                                                 NODRYDPLT NOWETDPLT
 *** MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
 -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**MO PARTICLE DEPOSITION DATA PROPIDED = F*MOdel Uses NO REV DEPLETION. DRYDPLT = F
 **Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s), for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
  **Model Allows User-Specified Options:
             1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
```

```
3. Use Calms Processing Routine.
                     4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR and Calculates ANNUAL Averages
**This Run Includes: 1 Source(s); 1 Source Group(s); and 2505 Receptor(s)
**The Model Assumes A Pollutant Type of: NOX
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
                         Options Selected.

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                    m for Missing Hours
                                                                                                                                                                            b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Angle Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 531.90 Output Units = PPM
**Approximate Storage Requirements of Model = 3.8 MB of RAM.
06/29/10
                                                                                                                                                                                                                                                                                                                                             13:04:55
PAGE 2
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                                                      *** AREA SOURCE DATA ***
NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM SOURCE PART. (USER UNITS X Y ELEV. HEIGHT OF AREA OF AREA ID CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                                                                                                                                                                          ORIENT. INIT. URBAN EMISSION RATE
OF AREA SZ SOURCE SCALAR VARY
(DEG.) (METERS) BY
                                                                                                                                                                                                                                                                                                               ) BY
         4.10 135.44 299.01
                                                                                                                                                                                                                                                                                                 0.00 YES
                                                                                                                                                                                                                                                                                                                                          06/29/10
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                   FLAT
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                              SOURCE IDs
ALL AREA1 ,
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                           06/29/10
13:04:55
                                                                                             *** Site 15 - NO2
                                                                                                                                                                                                                                                                                                                                            PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                   FLAT
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                           *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                              *** X-COORDINATES OF GRID ***
                                                                                                                                               (METERS)
                371970.4, 372000.4, 372030.4, 372060.4, 372090.4, 372120.4, 372150.4, 372180.4, 372110.4, 372270.4, 372300.4, 372330.4, 372360.4, 372390.4, 37240.4, 372450.4, 372480.4, 372510.4, 372510.4, 372570.4, 372600.4, 37260.4, 37260.4, 372690.4, 372720.4, 372750.4, 372780.4, 372870.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 373300.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 3744
                                                                                                                  *** Y-COORDINATES OF GRID ***
(METERS)
             3756971.3, 3757001.3, 3757031.3, 3757061.3, 3757091.3, 3757121.3, 3757151.3, 3757181.3, 3757181.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757301.3, 3757301.3, 3757301.3, 3757301.3, 3757601.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 
                                                                                           *** Site 15 - NO2
***
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                            13:04:55
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                                                                            *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
          ( 372922.9, 3757605.7,
( 372439.0, 3757746.5,
( 372435.3, 3757928.9,
AERMOD - VERSION 09292 ***
                                                                                                                                                         0.0);
                                                                                                                                                                                                ( 372861.5, 3757481.1,
( 372431.7, 3757838.6,
                                                                                                                                                         0.0);
                                                                                                                                                                                                                                                                                                                                            13:04:55
                                                                                                                                                                                                                                                                                                                                            PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                                         *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                                                                                                                              (1=YES; 0=NO)
```

```
1 1 1 1 1 1 1 1 1 1
                                                                                                                             1111111111
                                                                                                                             1 1 1 1 1 1 1 1 1 1
                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                                                (METERS/SEC)
                                                                              1.54, 3.09, 5.14, 8.23, 10.80,
*** AERMOD - VERSION 09292 ***
                                                      *** Site 15 - NO2
                                                                                                                                                                                               06/29/10
                                                                                                                                                                                               13:04:55
                                                                                                                                                                                               PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                        FI.AT
                                                                                                        NODRYDPLT NOWETDPLT
                                                       *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
   Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN
Year: 2005
                                      2005
                            Year:
                                                                                                           Year:
                                                                                                                       2005
                          of scalar data
HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD HT REF TA

-3.3 0.062 -9.000 -9.000 -999. 35. 6.5 0.26 1.00 1.00 1.00 1.30 51. 9.1 282.0

-2.7 0.056 -9.000 -9.000 -9999. 45. 8.9 0.26 1.00 1.00 1.00 1.30 51. 9.1 282.0

-2.7 0.056 -9.000 -9.000 -9999. 30. 5.9 0.26 1.00 1.00 1.00 1.00 48. 9.1 281.4

-2.3 0.062 -9.000 -9.000 -9999. 30. 6.8 0.26 1.00 1.00 1.00 1.00 52. 9.1 280.9

-2.8 0.062 -9.000 -9.000 -9999. 35. 7.5 0.26 1.00 1.00 1.00 62. 9.1 280.9

-3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.10 62. 9.1 280.9

-3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.40 64. 9.1 280.9

-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 1.00 1.20 55. 9.1 280.4

-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 1.00 1.20 76. 9.1 280.4

-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.53 1.40 76. 9.1 280.4

-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.30 2.20 78. 9.1 280.1

114.4 0.293 1.397 0.005 862. 365. -19.9 0.26 1.00 0.30 2.2 2.10 83. 9.1 284.9
First 24 hours of scalar data
First 24 hours of a
05 01 01
                  1 02
05 01 01
                  1 03
05 01 01
                  1 04
                                                                                               6.8 0.26
7.5 0.26
8.2 0.26
7.0 0.26
8.8 0.26
-44.6 0.26
-19.9 0.26
-17.3 0.26
-10.8 0.26
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
                  1 06
1 07
1 08
1 09
1 10
                           114.4 0.293

139.9 0.299

15.0 0.122

28.1 0.223

17.9 0.256

4.2 0.231

0.1 0.180

-1.7 0.045
05 01 01
                  1 11
1 12
                                                  1.673
                                                             0.010 1212.
                                                                                   376.
                                                                                                                      1.00
                                                                                                                                 0.19
                                                                                                                                               2.10
                                                                                                                                                          80.
                                                                                                                                                                             287.0
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
                                                              0.010
                                                                                                                      1 00
                                                                                             -10.8
-35.4
-84.4
-268.6
-5231.4
                                                                                                                                  0.18
0.19
0.22
                                                  0.797
0.983
0.847
0.521
0.151
                                                             0.010 1215.

0.010 1221.

0.009 1225.

0.009 1226.

0.009 1226.
                                                                                   241.
298.
256.
176.
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1.00
1.00
1.00
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2.10
2.00
1.60
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                                                -9.000
                                                             -9.000
                                                                        -999.
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3.4
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                                                                                                                      1.00
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    01 01
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                                       0.028 -9.000 -9.000 -999.
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                                                                                                                                  1.00
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                           -0.6 0.028 -9.000 -9.000 -999.

-0.4 0.022 -9.000 -9.000 -999.

-0.4 0.022 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.050 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.
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1.00
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05 01 01
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22.
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5.5
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05 01 01 1 23
05 01 01 1 24
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                                                                                                          0.26
                                                                                                                      1.00
                                                                                                                                              0.80
First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
05 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00
05 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00
06/29/10
 **MODELOPTS: NonDFAULT CONC
                                                                                                       NODRYDPLT NOWETDPLT
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                      INCLUDING SOURCE(S):
                                                                                                AREA1
                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                            ** CONC OF NOX
                                                                                              IN PPM
                                                                                                   X-COORD (METERS)
                                                                                                                 (WELIEKS)
372090.44 372120.44 372150.44 372180.44 372210.44
                           371970.44 372000.44 372030.44 372060.44
  3758411.30
3758381.30
                                0.00003
                                                     0.00003
                                                                          0.00003
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                                                                                                                                          0.00003
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                                                                                                                                          0.00004
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                                                                                                                                                                                    0.00004
                                                                                                                                                                                                         0.00004
   3758351.30
                                 0.00003
                                                     0.00003
                                                                          0.00003
                                                                                               0.00003
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                                                                                                                                          0.00004
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0.00004
0.00004
   3758321 30
                                 0 00003
                                                      0 00003
                                                                           0 00003
                                                                                                0 00003
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  3758231.30
                                0.00004
                                                     0.00004
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  3758201.30
                                0.00004
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   3758171.30
                                 0.00004
                                                     0.00004
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**MODELOPTS: NonDFAULT CONC
                                                                              FLAT
                                                                              NODRYDPLT NOWETDPLT
                      *** THE ANNUAL AVERAGE CONCENTRATION
                                                                       VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                         INCLUDING SOURCE(S):
                                                                        AREA1
                                         *** NETWORK ID: HCART1 : NETWORK TYPE: GRIDCART ***
                                                                           X-COORD (METERS)
                      371970.44
                                     372000.44
                                                                                                     372120.44 372150.44
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   (METERS)
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**MODELOPTS: NonDEAULT CONC
                                                                               NODRYDPLT NOWETDPLT
                      *** THE ANNUAL AVERAGE CONCENTRATION
                                                                       VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                        INCLUDING SOURCE(S):
                                                                        AREA1
                                         *** NETWORK ID: HCARTI
                                                                       : NETWORK TYPE: GRIDCART ***
                                               ** CONC OF NOX
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*** AERMOD - VERSION 09292 ***
                                         *** Site 15 - NO2 ***
                                                                                                                                                 06/29/10
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**MODELOPTS: NonDFAULT CONC
                                                                              NODRYDPLT NOWETDPLT
                      *** THE ANNUAL AVERAGE CONCENTRATION
                                                                       VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                         INCLUDING SOURCE(S):
                                                                        AREA1
                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                              ** CONC OF NOX
   Y-COORD
                                                                           X-COORD (METERS)
   (METERS)
                      372240.44
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**MODELOPTs:	NonDFAULT CONC			FLAT NODRY	DPLT NOWETDE	PLT		PA	GE 12
	*** THE ANNU.		NCENTRATION SOURCE(S):	VALUES AVER	RAGED OVER	3 YEARS FOR S	SOURCE GROUP:	ALL ***	
				; NETWORK	TYPE: GRIDO	CART ***			
		** C	ONC OF NOX	IN PPM			**		
Y-COORD (METERS)					372630.44				
3758441.30 3758411.30 3758381.30 3758321.30 3758231.30 3758291.30 3758291.30 3758291.30 3758211.30 3758171.30 3758171.30 3758171.30 3758051.30 3758051.30 3758051.30 3757991.30	0.00007 0.00007 0.00008 0.00008 0.00009 0.00009 0.00010 0.00011 0.00012 0.00013 0.00014 0.00017 0.00017	0.00007 0.00007 0.00007 0.00008 0.00008 0.00009 0.00010 0.00011 0.00011 0.00011 0.00012 0.00014 0.00024 0.00028 0.00033 0.00041 0.00052 0.00052 0.00015 0.0016 0.0017 0.00019 0.00115 0.00110 0.00115 0.001141 0.00143 0.00144 0.00143 0.00144 0.00143 0.00141 0.00143 0.00141 0.00143 0.00141 0.00143 0.00141 0.00143 0.00141 0.00143 0.00141 0.00143 0.00141 0.00143 0.00144 0.00143 0.00144 0.00143 0.00144 0.00144 0.00149 0.00050	0.00007 0.00008 0.00008 0.00010 0.00010 0.00011 0.00012 0.00013 0.00012 0.00012 0.00013 0.00014 0.00015 0.00015 0.00015 0.00015 0.00016 0.00117 0.00164 0.00151 0.00117 0.001164 0.00151 0.001133 0.00113 0.00013 0.00013 0.00013 0.00113	0.00007 0.00008 0.00008 0.00009 0.00010 0.00011 0.00012 0.00013 0.00014 0.00016 0.00017 0.00024 0.00028 0.00032 0.00032 0.00032 0.00038 0.00015 0.0015 0.0015 0.0016 0.0015 0.0016 0.00	0.00007 0.00008 0.00009 0.00009 0.00011 0.00012 0.00013 0.00014 0.00015 0.00017 0.00019 0.00024 0.00028 0.00038 0.00045 0.00019 0.00020 0.0019 0.0023 0.0023 0.0023 0.0025 0.0023 0.0026	0.00008 0.00008 0.00010 0.00011 0.00011 0.00012 0.00014 0.00015 0.00017 0.00024 0.00027 0.00027 0.00032 0.00037 0.0015 0.0016 0.00302 0.00303 0.00364 0.00350 0.00364 0.00350 0.00364 0.00350 0.00364 0.00365 0.00074 0.00167 0.00256 0.00074 0.00167 0.00256 0.00350	0.00008 0.00010 0.00010 0.00011 0.00012 0.00013 0.00015 0.00016 0.00018 0.00027 0.00037 0.00041 0.0016 0.0016 0.0016 0.0016 0.00298 0.00430 0.00456 0.00461 0.00464 0.0028 0.00464 0.0028 0.00471 0.00162 0.00466 0.00468 0.00471 0.00467 0.00468 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.00480 0.000480 0.000480 0.000480 0.000480 0.000480 0.000480 0.000480 0.000480	0.00009 0.00010 0.00011 0.00012 0.00013 0.00014 0.00018 0.00022 0.00022 0.00022 0.00022 0.00023 0.00035 0.00047 0.0039 0.0034 0.00518 0.00543 0.00544 0.00054	0.00009 0.00010 0.00011 0.00012 0.00013 0.00013 0.00014 0.00015 0.00017 0.00019 0.00024 0.00028 0.00039 0.00047 0.00060 0.00079 0.00115 0.00194 0.0038 0.00487 0.00562 0.00596 0.00608 0.00601 0.00585 0.005550 0.005550 0.00470 0.00324 0.00174 0.00088 0.00601 0.00585 0.005550 0.00470 0.00324 0.00174 0.00088 0.00661 0.00698 0.00601 0.00585 0.005550 0.00470 0.00324 0.00079
3757331.30 3757301.30 3757271.30 *** AERMOD =	0.00044 0.00036 0.00031 VERSION 09292 ***	0.00041 0.00034 0.00028 *** Site	0.00038 0.00031 0.00026 15 - NO2	0.00034 0.00028 0.00023	0.00030 0.00025 0.00021	0.00027 0.00022 0.00019	0.00023 0.00020 0.00017	0.00021 0.00018 0.00015 *** 06 *** 13	0.00019 0.00016 0.00014 5/29/10 0:04:55 GE 13
**MODELOPTs:	NonDFAULT CONC			FLAT NODRY	DPLT NOWETDE	PLT			GE 13
	*** THE ANNU.		NCENTRATION SOURCE(S):	VALUES AVER	RAGED OVER	3 YEARS FOR S	SOURCE GROUP:	ALL ***	
		*** NETWO	RK ID: UCART1	; NETWORK	TYPE: GRIDO	CART ***			
		** C	ONC OF NOX	IN PPM			**		
Y-COORD (METERS)	372510.44			372600.44		372660.44			372750.44
3757241.30 3757211.30 3757181.30 3757181.30 3757121.30 3757091.30 3757091.30 3757091.30 3757091.30 3756971.30 3756971.30	0.00015	0.00024 0.00020 0.00018 0.00015 0.00013 0.00012 0.00011 0.00009 0.00009 0.00008 *** Site	0.00012	0.00011	0.00010	0.00011 0.00010 0.00009 0.00008 0.00007	0.00010 0.00009 0.00008 0.00007 0.00007 0.00006 0.00006	0.00012 0.00010 0.00009 0.00008 0.00008 0.00007 0.00006 0.00006 *** 06	0.00009 0.00008 0.00007
**MODELOPTs:	NonDFAULT CONC			FLAT NODRY	DPLT NOWETDE	PLT		PF	GE 14
	*** THE ANNU	AL AVERAGE CO	NCENTRATION SOURCE(S):	VALUES AVER	RAGED OVER	3 YEARS FOR S	SOURCE GROUP:	ALL ***	
		*** NETWO		; NETWORK	TYPE: GRIDO	CART ***	**		
Y-COORD (METERS)	372780.44			X-COORD		37293N 4A		372990 44	373020 44
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3758441.30 3758411.30 3758381.30 3758381.30 3758321.30 3758291.30 3758261.30 3758231.30	0.00010 0.00011 0.00012 0.00013 0.00015	0.00012 0.00013 0.00014	0.00012 0.00013 0.00014 0.00016	0.00015 0.00016		0.00015 0.00017 0.00018	0.00014 0.00015 0.00017 0.00019	0.00012 0.00013 0.00014 0.00015 0.00017 0.00019	0.00015 0.00017 0.00019

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**MODELOPTS: NonDFAULT CONC
                                                                                   FLAT
                                                                                   NODRYDPLT NOWETDPLT
                       *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                  ** CONC OF NOX
                                                                            TN PPM
                                                                        X-COORD (METERS)
372870.44 372900.44
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                                            *** Site 15 - NO2
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**MODELOPTs: NonDFAULT CONC
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                                                                                   NODRYDPLT NOWETDPLT
                       *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                           INCLUDING SOURCE(S):
                                                 ** CONC OF NOX
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3757301.30 3757271.30 *** AERMOD -	0.00008 0.00008 VERSION 09292 ***	0.00008 0.00007 *** Site	0.00007 0.00007 15 - NO2	0.00007 0.00006	0.00006 0.00006	0.00006 0.00006	0.00006 0.00005	***	13:	0.00005 0.00005 /29/10 04:55 SE 17
**MODELOPTs:	NonDFAULT CONC			FLAT NODRY	DPLT NOWETD	PLT				,,,
	*** THE ANNUA		ONCENTRATION		RAGED OVER	3 YEARS FOR	SOURCE GROUP:	ALL	***	
			SOURCE(S):	AREA1 ,						
			ORK ID: UCART1	; NETWORE	TYPE: GRIL	CART ***	**			
Y-COORD		**	CONC OF NOX	X-COORD	(METERC)		**			
(METERS)	373050.44	373080.44	373110.44	373140.44	373170.44	373200.44	373230.44	37	3260.44	373290.44
3757241.30	0.00007	0.00007	0.00006	0.00006	0.00005	0.00005	0.00005		0.00005	0.00005
3757211.30 3757181.30	0.00007 0.00007 0.00006 0.00006 0.00006 0.00005 0.00005 0.00005 0.00004 VERSION 09292 ***	0.00006	0.00006	0.00006	0.00005	0.00005	0.00005		0.00004	0.00004
3757121.30	0.00006	0.00005	0.00005	0.00005	0.00005	0.00004	0.00004		0.00004	0.00004
3757091.30 3757061.30	0.00005 0.00005	0.00005	0.00005 0.00005	0.00005 0.00004	0.00004	0.00004	0.00004 0.00004		0.00004	0.00003
3757031.30 3757001.30	0.00005 0.00004	0.00005	0.00004	0.00004	0.00004	0.00004	0.00004		0.00003	0.00003
3756971.30	0.00004 VERSION 09292 ***	0.00004 *** Site	0.00004 15 - NO2	0.00004	0.00004	0.00003	0.00003	***	0.00003	0.00003
		***						***	13: PAG	04:55 E 18
**MODELOPTs:	NonDFAULT CONC			FLAT NODRY	DPLT NOWETD	PLT				
			ONCENTRATION			3 YEARS FOR	SOURCE GROUP:	ALL	***	
			SOURCE(S): ORK ID: UCART1			NONDT ***				
			CONC OF NOX		c iiri GKib	CAICI	**			
Y-COORD				X-COORD						
(METERS)	373320.44		373380.44							
3758441.30	0.00011 0.00012 0.00013 0.00014 0.00016 0.00017 0.00018	0.00011	0.00011	0.00011	0.00011					
3758411.30 3758381.30	0.00012	0.00012	0.00012	0.00012 0.00013	0 00013					
3758351.30 3758321.30	0.00014 0.00016	0.00014	0.00014 0.00015	0.00013 0.00014 0.00015	0.00015					
3758291.30 3758261.30	0.00017	0.00017	0.00017	0.00016 0.00017	0.00016 0.00017					
3758231.30	0.00020	0.00010	0.00019	0.00017	0.00017					
3758201.30 3758171.30	0.00022 0.00023	0.00021	0.00021 0.00022	0.00020 0.00021	0.00019					
3758141.30 3758111.30	0.00025	0.00024	0.00023	0.00022	0.00021					
3758081.30	0.00027	0.00023	0.00024	0.00023	0.00022					
3758051.30 3758021.30	0.00029 0.00030	0.00028	0.00026 0.00026	0.00024	0.00023 0.00023					
3757991.30 3757961.30	0.00031	0.00028	0.00026	0.00024	0.00023					
3757931.30	0.00031	0.00028	0.00026	0.00024	0.00022					
3757901.30 3757871.30	0.00030	0.00027	0.00025	0.00023	0.00021					
3757841.30 3757811.30	0.00028	0.00025	0.00023	0.00021	0.00019					
3757781.30	0.00024	0.00022	0.00020	0.00018	0.00017					
3757751.30 3757721.30	0.00022	0.00020	0.00019	0.00017	0.00016 0.00015					
3757691.30 3757661.30	0.00019	0.00017	0.00016 0.00014	0.00014	0.00013					
3757631.30	0 00015	0 00014	0 00013	0 00012	0 00011					
3757601.30 3757571.30	0.00012	0.00013	0.00012	0.00011	0.00010					
3757541.30 3757511.30	0.00011 0.00010	0.00010	0.00010	0.00010 0.00009 0.00008	0.00008					
3757481.30 3757451.30	0.00009	0.00008	0.00008	0.00007	0.00007					
3757421.30	0.00007	0.00007	0.00007	0 00006	0 00006					
3757391.30 3757361.30	0.00007 0.00006	0.00006	0.00006 0.00006 0.00005	0.00006	0.00005					
3757331.30 3757301.30	0.00005 0.00005	0.00005	0.00005 0.00005 0.00004	0.00005	0.00005					
3757271.30		0.00005 *** Site	0.00004	0.00004	0.00004			***	06	29/10
- COMMAN	VERSION 09292	***	15 - NO2					***	13:	04:55 SE 19
**MODELOPTs:	NonDFAULT CONC			FLAT	DPLT NOWETE	PI.T			FAC	,E 19
	*** THE ANNUA		ONCENTRATION	VALUES AVER			SOURCE GROUP:	ALL	***	
			SOURCE(S): ORK ID: UCART1		, mude, opto	003DM +++				
			CONC OF NOX	IN PPM	C IMPE. GRIL	CARI """	**			
Y-COORD			-	X-COORD						
	373320.44				373440.44					
3757241.30	0.00004	0.00004	0.00004	0.00004	0.00004					
3757211.30 3757181.30	0.00004		0.00004 0.00004	0.00004	0.00004					
3757151.30 3757121.30			0.00003	0.00003						
3757091 30 İ	0.00003	0 00003	0 00003	0 00003	0.00003					
3757031.30	0.00003	0.00003	0.00003	0.00003	0.00003					
3757001.30 3756971.30	0.00003 0.00003 0.00003 0.00003 VERSION 09292 ***	0.00003	0.00003	0.00003	0.00002					
*** AERMOD -	VERSION 09292 ***	*** Site	15 - NO2					***	06/	29/10

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13:04:55
                                                                                                                                                                                                                                                                                             PAGE 20
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                           FLAT
                                                                                                                                                          NODRYDPLT NOWETDPLT
                                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl ,
                                                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                              ** CONC OF NOX IN PPM
X-COURD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M)

372922.94 3757605.69 0.00080 372861.54 3757481.08
372438.96 3757746.55 0.00052 372431.74 3757838.64
372435.35 3757928.94 0.00019

*** AERMOD - VERSION 09292 *** *** Site 15 - NO2
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 **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                      *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, ,
                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                            ** CONC OF NOX IN PPM
                             X-COORD (METERS)
371970.44 372000.44 372030.44 372060.44
   Y-COORD (METERS)
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        0.00443 (06071402)
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        0.00422 (05082506)

        0.00467 (06071402)
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        0.00436 (07062201)

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        0.00474 (06071402)
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        0.00488 (06071402)
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        0.00502 (07090907)
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                                                                                                                                                                                                                                                                                             PAGE 22
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                               THE \, 1ST HIGHEST 1-Hr AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                           ** CONC OF NOX IN PPM
                              X-COORD (METERS)
371970.44 372000.44 372030.44 372060.44 372090.44
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3757151.3
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3757091.3
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0.00844 (07070106)

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 3757031.3 0.00821 (07070106) 0.00823 (07070106) 3757001.3 0.00805 (07070106) 0.00786 (07070106) 3755971.3 0.00767 (07070106) 0.00730 (07070106) **** AERMOD - VERSION 09292 *** *** Site 15 - NO2
                                                                                                                                                            0.00841 (07070106)
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                                                                                                                                                                                                                                                                                             PAGE 23
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                       *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                INCLUDING SOURCE(S):
                                                                                                                                            AREA1
                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                              ** CONC OF NOX
                                                                                                                                       TN PPM
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PAGE 24
                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                              1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                               INCLUDING SOURCE(S): AREA1
                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                           ** CONC OF NOX
                                                                                                                                       IN PPM
 __COORD |
(METERS) |
                                                                                                                                                X-COORD (METERS)
                                         372120.44 372150.44 372180.44
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13:04:55
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NODRYDPLT NOWETDPLT
**MODELOPTS: NonDFAULT CONC
                                                                      *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL
                                                                              INCLUDING SOURCE(S):
                                                                                                                                             AREA1
                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                           ** CONC OF NOX IN PPM
                             X-COORD (METERS)
372270.44 372300.44 372330.44
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                                                                                                                                                                                                                                                                                                                                                    PAGE 26
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                         NODRYDPLT NOWETDPLT
                                                                                    *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                            ** CONC OF NOX IN PPM
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    Y-COORD
  Y-COORD (METERS)
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**MODELOPTS: NonDEAULT CONC
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                                                                                  *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                           ** CONC OF NOX IN PPM
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  *** AERMOD - VERSION 09292 ***
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13:04:55
                                                                                                                                                                                        FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                                                1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                               INCLUDING SOURCE(S): AREA1 ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                             ** CONC OF NOX IN PPM
                                                                                                                                                                           X-COORD (METERS)
   Y-COORD
   Y-COORD
(METERS)
                                                 372420.44 372450.44 372480.44 372510.44
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| - VERSION 09292 *** *** Site 15 - NO2
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*** AERMOD
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13:04:55
PAGE 29
**MODELOPTs: NonDFAULT CONC
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                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                                        1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                           INCLUDING SOURCE(S): AREA1
                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                     ** CONC OF NOX IN PPM
  Y-COORD
                                                                                                                                        X-COORD (METERS)
                                        372570.44 372600.44 372630.44 372660.44 372690.44
                                                                                            0.00607 (05052102)
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                                                                                                                                                                                                           0.01388 (U/U01/U1,
0.01347 (07081701)
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**MODELOPTS: NonDFAULT CONC
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                                                                                                                                                  NODRYDPLT NOWETDPLT
                                                                 *** THE -1\text{ST} HIGHEST 1-HR AVERAGE CONCENTRATION - VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl - ,
                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                               TN DDM
                                                                                     ** CONC OF NOX
                                                                                                                                      X-COORD (METERS)
                                        372570.44 372600.44 372630.44 372660.44
  (METERS)
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                                     0.01197 (06090606) 0.01150 (06090606) 0.01117 (06041123) 
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3757121.3
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3757001.3 | 0.00748 (06041123) 0.00773 (07081701) 3757001.3 | 0.00709 (06041123) 0.00777 (07081701) 3756971.3 | 0.00667 (06041123) 0.00776 (07081701) *** AERMOD - VERSION 09292 *** *** Site 15 - NO2
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0.00798 (07081701)
                                                                                                                                                                                                                                                                             PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                  FLAT
                                                                                                                                                  NODRYDPLT NOWETDPLT
                                                                 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                       ** CONC OF NOX IN PPM
                                            72720.44 372750.44 372780.44 37280.44
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  (METERS)
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0.00786 (07091802)
3758411.3
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0.02726 (07070206)
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3758051.3
3758021.3
3757991.3
                               0.01732 (07072704)
0.01774 (07072704)
0.01939 (07072704)
0.02136 (07072704)
0.02383 (05052102)
                                                                            0.012709 (07070206)
0.01872 (07070206)
0.02065 (07070206)
0.02297 (07070206)
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3757961.3
3757931.3
                               0.02710 (05052102)
                                                                            0.02970 (07070206)
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0.02804 (07070124)
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3757901.3
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3757841.3
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0.03114 (07062501)
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0.02649 (07062501)
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0.03273 (07070206)
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0.02505 (07081203)
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3757721.3
                               0.02515 (05050324)
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3757721.3
3757691.3
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0.02613 (07051822)

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0.03003 (06030421)

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0.03036 (06030421)
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0.02809 (07081703)

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0.03190 (07081203)

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0.03327 (06053105)

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0.03172 (07051822)

0.03349 (07051822)

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0.03128 (07051822)

0.02618 (07103023)

0.02298 (07122007)
3757541.3
3757511.3
                               0.02926 (07081701)
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3757481.3
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0.01912 (07081502)
0.01752 (07081502)
0.01614 (07081502)
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0.01823 (05091702)
0.01677 (07103023)
3757451.3
                               0.02316 (07081701)
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3757421 3
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3757331.3
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3757271.3 | 0.01413 (07081701) 0.01388 (07081502) 3757271.3 | 0.01285 (07072801) 0.01295 (07081502) *** AERMOD - VERSION 09292 *** *** Site 15 - NO2 ***
                                                                                                                        0.01377 (05042102)
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                                                                                                                                                                      0.01203 (05042102)
                                                                                                                                                                                                                  0.01226 (07122007
                                                                                                                                                                                                                           06/29/10
13:04:55
PAGE 32
**MODELOPTS: NonDFAULT CONC
                                                                                                                       NODRYDPLT NOWETDPLT
                                                     *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREA1 \, ,
                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                      ** CONC OF NOX
                                                                                                        IN PPM
                                                                                                        X-COORD (METERS)
  Y-COORD
                                                                            372750.44
                                372720 44
                                                                                                                           372780.44
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0.01136 (07081502) 0.01119 (05042102)
0.01069 (07081502) 0.01049 (05042102)
0.01007 (07081502) 0.00986 (05042102)
                              0.01198 (07072801)
0.01127 (05083003)
0.01063 (05083003)
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0.01119 (05042102)
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0.00986 (05042102)
0.00928 (05042102)
0.00877 (07081604)
0.00832 (07081604)
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0.00960 (07122007)
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3757211.3
3757181.3
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3757151.3
                               0.01004 (05083003)
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0.00806 (07122007)
0.00737 (05042102)
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                                0.00950 (05083003)
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0.00719 (07081604)
3757031.3
                               0.00810 (05083003)
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3757001.3 | 0.00769 (05083003) 0.00773 (07)
3756971.3 | 0.00734 (06111620) 0.00737 (07)
*** AERMOD - VERSION 09292 *** *** Site 15 - NO2
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0.00737 (07081502)
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13:04:55
PAGE 33
                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                     *** THE
                                                                        1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                            INCLUDING SOURCE(S):
                                                                                                    AREA1
                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                      ** CONC OF NOX IN PPM
                                                                                                          X-COORD (METERS)
 Y-COORD
                                372870 44
                                                                            372900 44
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0.00816 (07040123)
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0.00678 (07040123)
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3758411.3
3758381.3
3758351.3
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3758321 3
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3758231.3
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3758201.3
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3758171.3
3758141.3
3758111.3
3758081.3
3758051.3
3758021.3
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0.01424 (05101302)

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0.01577 (07091723)
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0.01200 (05101302)

0.01264 (07091723)

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0.01270 (07091723)

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0.00948 (07070124)
0.01067 (07070124)
0.01140 (07070124)
0.01155 (07070124)
0.01150 (07092823)
0.01187 (06090306)
                               0.01304 (07122005)
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0.01147 (07070124)
0.01263 (07070124)
0.01311 (07070124)
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                               0.01304 (07122005)
0.01395 (07122005)
0.01478 (07122005)
0.01613 (07062524)
0.01764 (07062524)
3757991.3
                               0.01899 (05101302)
3757961.3
                               0.02041 (07091723)
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3757931.3
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3757781.3
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3757751.3
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0.01717 (05041521)
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3757721.3
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                                              (05041521)
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0.01216 (05041521)
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0.01515 (05041521)

0.01559 (07062901)

0.01577 (07062901)
3757691.3
                               0.02166 (07062901)
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0.02223 (05062305)
0.02291 (07081702)
0.02358 (07081702)
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3757601.3
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0.01278 (05062305)
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0.01422 (05062305)
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3757541.3
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0.01957 (07081203)
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0.01675 (07081702)
3757511 3
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0.02276 (06053105)
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3757451.3
3757421.3
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0.01262 (07081203)
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 3757391.3
                                0.01748 (07051822)
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3757391.3 | 0.01748 (07051822) 0.01691 (06 3757361.3 | 0.01555 (07051822) 0.01570 (07 3757331.3 | 0.01391 (05091702) 0.01482 (07 3757331.3 | 0.01294 (05091702) 0.01370 (07 3757271.3 | 0.01205 (07103023) 0.01243 (07 *** AERMOD - VERSION 09292 *** *** Site 15 - NO2 ****
                                                                                                                         0.01499 (06053105)
0.01495 (06053105)
0.01431 (06053105)
0.01324 (06053105)
0.01265 (07051822)
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                                                                                                                                                                                                                              PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                         PT.AT
                                                                                                                         NODRYDPLT NOWETDPLT
                                                       *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                        ** CONC OF NOX
                                                                                                        X-COORD (METERS)
                                372870.44 372900.44
                                                                                              372930.44
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  (METERS)
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0.01086 (06053105)
0.01034 (06053105)
0.00958 (06053105)
3757211.3
3757181.3
3757151.3
3757121.3
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0.00835 (05091702)
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3757091.3
                                0.00841 (07122007)
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0.00670 (07051822)
3757061.3
                                0.00788 (07122007)
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0.00735 (05091702)
0.00713 (05091702)
0.00684 (05091702)
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06/29/10
13:04:55
                                                                                                                                                                                                                              PAGE 35
**MODELOPTS: NonDEAULT CONC
                                                                                                                         NODRYDPLT NOWETDPLT
                                                      *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 ,
                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                        ** CONC OF NOX IN PPM
                                                                                                                                                                        373110.44
                                373020.44 373050.44 373080.44 373110.
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  (METERS)
                               0.00691 (07062524) 0.00667 (05101302)
0.00713 (07062524) 0.00695 (07091723)
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3758411.3
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0.00673 (05082807)
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 3758291.3
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 3758231.3
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*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                             06/29/10
13:04:55
PAGE 36
                                                                                                                        FLAT
NODRYDPLT NOWETDPLT
                                                       *** THE
                                                                        1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                              INCLUDING SOURCE(S): AREA1
                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                       ** CONC OF NOX
                                                                                                         X-COORD (METERS)
  Y-COORD
                                 373020.44 373050.44 373080.44 -----
  (METERS)
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- VERSION 09292 *** *** Site 15 - NO2
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**MODELOPTs: NonDFAULT CONC
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                                                       *** THE \, 1ST HIGHEST \, 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                         ** CONC OF NOX IN PPM
 Y-COORD
(METERS)
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**MODELOPTS: NonDEAULT CONC
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                                                      *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                        ** CONC OF NOX IN PPM
                                373170.44 373200.44 373230.44 373260.4
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                                                                                                                                                                                                                                 PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                          NODRYDPLT NOWETDPLT
                                                              INCLUDING SOURCE(S):
                                                                                                              AREA1 ,
                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                       ** CONC OF NOX IN PPM
                              373320.44 373350.44 373380.44 373410.44 373440.
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3758351.3
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0.00460 (06102522)
0.00472 (07062424)
                                0.00544 (06090306)
0.00551 (05062902)
0.00558 (06102522)
0.00608 (07062424)
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3758321.3
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3758291.3
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3758261.3
3758231.3
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0.00716 (05082707)
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0.00794 (05082707)
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0.00697 (05082707)
0.00793 (05082707)
0.00855 (05082707)
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0.00827 (05082707)
0.00863 (05082707)
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0.00855 (05082707)
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0.00832 (05082707)
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0.00829 (05082707)
0.00796 (05082707)
   3758201.3 |
   3758171.3
   3758141.3
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0.00776 (05082707)
0.00693 (05082707)
0.00589 (05082707)
    3758111.3
                                              0.00878 (05082707)
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                                              0.00864 (05082707)
0.00817 (05082707)
0.00740 (05082707)
0.00637 (05082707)
    3757991.3
                                                                                                            0.00564 (07072804)
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    3757961.3
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0.00557 (07112919)
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0.00472 (07112919)

0.00497 (05071903)

0.00505 (05071903)

0.00504 (05091722)

0.00503 (07072605)

0.00505 (06061524)

0.00537 (06112321)
   3757931.3
                                              0.00583 (07112919)
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0.00512 (05071903)
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0.00527 (05071903)
0.00540 (05071903)
0.00540 (05091722)
0.00540 (06090106)
0.00543 (06112321)
    3757901 3
                                              0.00569 (07112919)
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0.00522 (05071903)
0.00522 (05091722)
0.00521 (06090106)
0.00522 (06061524)
0.00556 (06112321)
   3757871.3
3757841.3
3757811.3
                                              0.00569 (07112919)
0.00579 (05071903)
0.00583 (05071903)
0.00581 (06090106)
0.00595 (06112321)
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0.00559 (05071903)
0.00560 (05071903)
0.00560 (06090106)
    3757781.3
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    3757721.3
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    3757691 3
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    3757661.3
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                                              0.00572 (07081802)
   3757541.3
                                              0.00586 (07081802)
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0.00566 (07081802)
0.00565 (07081201)
0.00568 (05041521)
0.00606 (05041521)
0.00623 (05041521)
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0.00540 (07082904)
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0.00502 (07081802)

0.00505 (07081201)

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0.00516 (05041521)
   3757511.3
3757481.3
                                              0.00587 (07081802)
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0.00586 (07081201)
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0.00556 (05041521)
0.00576 (05041521)
   3757451.3
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3757391.3
   3757361.3
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0.00589 (05041521)
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   3757331.3 0.00598 (07062901) 0.005
3757301.3 0.00635 (07062901) 0.005
3757271.3 0.00650 (07062901) 0.006
*** AERMOD - VERSION 09292 *** *** Site 15
                                                                                                            0.00595 (05041521)
                                                                                                                                                                                                                                        0.00577 (05041521)
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                                                                                                            0.00581 (07062901)
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0.00564 (07062901)
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                                                                                                            0.00613 (07062901)
                                                                                                                                                                                                                                        0.00511 (05090403)
                                                                                                                                                                                                                                                                                                     0.00516 (05041521
                                                                                                                                                                                                                                                                                                                  PAGE 40
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                            *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, ,
                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                    ** CONC OF NOX IN PPM
                                      X-COORD (METERS)
373320.44 373350.44 373380.44 373410.44
     V-COOPD
                                             0.00638 (07062901) 0.00622 (07062901) 0.00591 (07062901) 0.00548 (07062901) 0.00496 (07062901) 0.00597 (07062901) 0.00605 (07062901) 0.00594 (07062901) 0.00569 (07062901) 0.00532 (07062901) 0.00561 (07062205) 0.00583 (07062901) 0.00572 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00542 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00542 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (07062901) 0.00554 (0706
   3757241.3 |
3757211.3 |
   3757181.3
3757151.3
   3757121.3
3757091.3
3757061.3
                                                                                                                                                             0.00571 (05062305)
0.00563 (05062305)
0.00563 (05062305)
0.00531 (05062305)
0.00546 (07092704)
0.00607 (07090807)
  3757061.3 0.00611 (07090807) 0.00562 (07092704) 3757031.3 0.00692 (07090807) 0.00574 (07092704) 3757031.3 0.00672 (07090807) 0.00574 (07092704) 3756701.3 0.00615 (07090807) 0.00648 (07090807) 3756971.3 0.00615 (07090807) 0.00719 (07090807) *** AERMOD - VERSION 09292 *** Site 15 - NO
                                                                                                                                                                                                                                       0.00538 (05062305)
0.00509 (05062305)
                                                                                                                                                                                                                                                                                                     0.00522 (05062305
                                                                                                                                                                                                                                                                                                     0.00515 (05062305
                                                                                                                                                                                                                                       0.00519 (07092704)
                                                                                                                                                                                                                                                                                                     0.00488 (05062305
                                                                                                                                                                                                                                                                                                                06/29/10
13:04:55
PAGE 41
   **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                              *** THE
                                                                                                    1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                        INCLUDING SOURCE(S): AREA1 ,
                                                                                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                     ** CONC OF NOX IN PPM
                                                                                        0.01631 (07062901) 372861.54 3757481.08
0.00922 (07081605) 372431.74 3757838.64
0.00990 (06071402) *** Site 15 - NO2
               X-COORD (M) Y-COORD (M)
                                                                                                                                                                                                                                                                     CONC
                                                                                                                                                                                                                                                                                            (YYMMDDHH)
   372922.94 3757605.69
372438.96 3757746.55
372435.35 3757928.94
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                 06/29/10
                                                                                                                                                                                                                                                                                                                  13:04:55
                                                                                                                                                                                                                                                                                                                  PAGE 42
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                     FLAT
NODRYDPLT NOWETDPLT
                                                                                          *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***
                                                                                           ** CONC OF NOX IN PPM
GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
                     1ST HIGHEST VALUE IS
2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
                                                                                           0.00608 AT ( 372750.44, 3757721.30, 
0.00606 AT ( 372750.44, 3757751.30, 
0.00601 AT ( 372750.44, 3757751.30, 
0.00505 AT ( 372780.44, 3757751.30, 
0.00595 AT ( 372780.44, 3757751.30, 
0.00594 AT ( 372780.44, 37577781.30, 
0.00592 AT ( 372780.44, 37577721.30,
                                                                                                                                                                                                                                                                          GC
GC
GC
GC
GC
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UCART1
UCART1
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UCART1
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0.00)
0.00)
0.00)
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                                                                                                                                                                                                                                                          0.00)
                                                                                                                                                                                                                                                                                     UCART1
                    7TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS
                                                                                           0.00589 AT ( 372780.44,
0.00585 AT ( 372750.44,
0.00581 AT ( 372780.44,
0.00570 AT ( 372780.44,
                                                                                                                                                              3757781.30.
                                                                                                                                                                                                      10.00.
                                                                                                                                                                                                                                10.00.
                                                                                                                                                                                                                                                          0.00)
                                                                                                                                                                                                                                                                           GC
                                                                                                                                                                                                                                                                                     UCART1
                                                                                                                                                            3757661.30,
3757691.30,
3757811.30,
                                                                                                                                                                                                                                                                            GC
GC
GC
                                                                                                                                                                                                      10.00
                                                                                                                                                                                                                                10.00
                                                                                                                                                                                                                                                          0.00)
                                                                                                                                                                                                                                                                                      UCART1
   *** RECEPTOR TYPES: GC = GRIDCART
  RECEPTOR 11FES. GC - GRIDCARY
GP = GRIDPOLR
DC = DISCOARY
DP = DISCOARY
*** AERMOD - VERSION 09292 *** *** Site 15 - NO2
***
                                                                                                                                                                                                                                                                                                                  PAGE 43
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                       NODRYDPIT NOWETDPIT
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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEF	PTOR (XR, YR,	ZELEV, ZHII	LL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE	IS 0.03709 C	N 07070206: AT	(372780.44,	3757871.30,	10.00,	10.00,	0.00) GC	UCART1
*** RECEPTOR TYPES: GC = GRI GP = GRI DC = DIS DP = DIS	DPOLR							
*** AERMOD - VERSION 09292 **		NO2				***	06/29 13:04 PAGE	:55
**MODELOPTs: NonDFAULT CONC			FLAT NODRYDPLT NOW	ETDPLT				
*** Message Summary : AERMOD	Model Execution ***							
Summary of Total M	essages							
A Total of 0 Fatal A Total of 0 Warnin A Total of 152 Inform	ng Message(s)							
A Total of 26280 Hours	Were Processed							
A Total of 15 Calm	Hours Identified							
A Total of 137 Missi	ng Hours Identified	(0.52 Percen	t)					
****** FATAL ERROR MESSA *** NONE ***	GES ******							
****** WARNING MESSAGE: *** NONE ***	S ******							

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.5.0

** Lakes Environmental Software Inc.

** Date: 6/29/2010

** File: C:\Documents and Settings\ssilverman\Desktop\Site 15\PM10.ADI

**
  ***********
 ** AERMOD Control Pathway

***

**

**
CO STARTING
        STARTING
TITLEONE Site 15 - PM10
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24
URBANOPT 9862049 Los_Angeles_County
POLLUTID PM10.
RUNORNOT RUN
CO FINISHED
  ********
 ** AERMOD Source Pathway
***
**
**
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION AREA1 AREA 372695.400 3757574.990 0.0

** DESCRSRC Exhuast
** DESCRSRC Exhuast LOCATION ARRA2 AREA 372695.400 3757574.990 0.0

** DESCRSRC Dust 
** Source Parameters ** SKCPARAM ARRA1 9.976E-07 4.100 135.440 299.009 0.000 SKCPARAM ARRA2 0.0000484 0.000 135.440 299.009 0.000 0.000 UBRANSKC ARRA1-ARRA2 SKCGROUP ALL
 SO FINISHED
  **********
** AERMOD Receptor Pathway
***
**
**
RE STARTING
       STARTING
GRIDCART UCARTI STA

XYINC 371970.44 50 30.00 3756971.30 50 30.00

BESCRREC ** **
DISCCART 372922.94 3757605.69
DISCCART 372861.54 3757481.08
DISCCART 372438.96 3757746.55
DISCCART 372431.74 3757838.64
DISCCART 372435.35 3757928.94
DISCCART
DISCCART
RE FINISHED
 *********
 ** AERMOD Meteorology Pathway
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
 ********
 OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED
    *** SETUP Finishes Successfully ***
    06/29/10
                                                                                                                                                                                                                                                                                                                                         15:44:24
   **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                   FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                             MODEL SETUP OPTIONS SUMMARY
    ......
    **Model Is Setup For Calculation of Average CONCentration Values.
   **MO GAS DEPOSITION DATA Provided.

**MO PARTICLE DEPOSITION DATA Provided.

**MOO PARTICLE DEPOSITION DATA PROVIDED

**MOODED TO THE PROVIDED TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROVIDED THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF
   **Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s), for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
   **Model Allows User-Specified Options:
1. Stack-tip Downwash.
```

```
2. Model Assumes Receptors on FLAT Terrain.
                       3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR
**This Run Includes: 2 Source(s); 1 Source Group(s); and 2505 Receptor(s)
**The Model Assumes A Pollutant Type of: PM10.
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
                         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                 m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Angle = 0.0 Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model = 3.8 MB of RAM.
06/29/10
                                                                                                                                                                                                                                                                                                                                                   15:44:24
PAGE 2
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                                          *** AREA SOURCE DATA ***
                                       NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                                                                                                                                                                                                               INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
(METERS) BY
                                      NUMBER EMISSION RATE COORD (SW CORNER) BASE
                                                                                                                                                                                                                                                                     ORIENT.
                                                                                                                                                                                                                                                                    OF AREA
(DEG.)
                                                                                                                                                                                                                                                                                                       U.00 YES
0.00 YES
AREA1 0 0.99760E-06 372695.4 3757575.0 AREA2 0 0.48400E-04 372695.4 3757575.0 *** AERMOD - VERSION 09292 *** *** Site 15 - PM10 ***
                                                                                                                                                                                        4 10
                                                                                                                                                                                                                                                                                                                                                  06/29/10
                                                                                                                                                                                                                                                                                                                                                    15:44:24
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                                 SOURCE IDs
ALL AREA1 , AREA2 , *** AERMOD - VERSION 09292 ***
                                                                                               *** Site 15 - PM10
                                                                                                                                                                                                                                                                                                                                                   PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                        FLAT
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                              *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                 *** X-COORDINATES OF GRID ***
                                                                                                                                                  (METERS)
                 371970.4, 372000.4, 372030.4, 372060.4, 372090.4, 372120.4, 372150.4, 372180.4, 372210.4, 372270.4, 372300.4, 372330.4, 372360.4, 372390.4, 37240.4, 372450.4, 372480.4, 372510.4, 372510.4, 372570.4, 372600.4, 37260.4, 37260.4, 372690.4, 372720.4, 372750.4, 372780.4, 372870.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37250.4, 373300.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37340.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 37440.4, 3744
                                                                                                                     *** Y-COORDINATES OF GRID ***
(METERS)
              3756971.3, 3757001.3, 3757031.3, 3757061.3, 3757091.3, 3757121.3, 3757151.3, 3757181.3, 3757181.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757301.3, 3757301.3, 3757301.3, 3757301.3, 3757601.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 
15:44:24
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                               *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
           ( 372922.9, 3757605.7,
( 372439.0, 3757746.5,
( 372435.3, 3757928.9,
AERMOD - VERSION 09292 ***
                                                                                                                                                             0.0);
                                                                                                                                                                                                    ( 372861.5, 3757481.1,
( 372431.7, 3757838.6,
                                                                                                                                                            0.0);
                                                                                                                                                                                                                                                                                                                                                   15:44:24
                                                                                                                                                                                                                                                                                                                                                   PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                            *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                                                                                                                                  (1=YES; 0=NO)
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1111111111
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                                                                                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                                                                                                                               (METERS/SEC)
                                                                                                                                              1.54, 3.09, 5.14, 8.23, 10.80,
  *** AERMOD - VERSION 09292 ***
                                                                                                    *** Site 15 - PM10
                                                                                                                                                                                                                                                                                                                                                           15:44:24
                                                                                                                                                                                                                                                                                                                                                          PAGE
  **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                            FI.AT
                                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                                     *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
      Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN
Year: 2005
                                                                     2005
                                                   Year:
                                                                                                                                                                                                  Year:
                                                                                                                                                                                                                         2005
First 24 hours of scalar data YR MO DY JDY HR HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD DY HD HD HO DY JDY HD HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HD HO DY HO DY HD HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO DY HO
  First 24 hours of scalar data
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8.2 0.26
7.0 0.26
8.8 0.26
-44.6 0.26
-19.9 0.26
-17.3 0.26
-10.8 0.26
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                                                 114.4 0.293

139.9 0.299

15.0 0.122

28.1 0.223

17.9 0.256

4.2 0.231

0.1 0.180

-1.7 0.045
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256.
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-0.4 0.022 -9.000 -9.000 -999.

-0.4 0.022 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.
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First hour of profile data
YR MO DY HR HEIGHT F WDIR
05 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00
05 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00
 06/29/10
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                      *** THE
                                                                                                                  1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                INCLUDING SOURCE(S): AREA1 , AREA2
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                             ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                           X-COORD (METERS)
     Y-COORD
                                                                                                                            X-COORD (METERS)
372000.44 372030.44 372060.44
                                     371970.44 372000.44
                                                                                                                                                                                                                                                                                                                                            372090 44
                                                                                                                  17.58438 (06071424) 18.23812m(05010924) 17.43647 (06071424) 18.38644 (06071424) 17.42675 (07021124) 18.10855 (06071424)
                                               16.78853 (06071424)
16.79816 (07021124)
16.88690 (07021124)
17.13742 (06110124)
                                                                                                                                                                                                                                                                 20.42822 (07071924) 23.87834 (06062824) 19.31979m(05010924) 21.41236 (07071924) 19.22061 (06071424) 20.50896m(05010924)
                                                                                                                                                                                          18.23812m(05010924)
18.38644 (06071424)
18.10855 (06071424)
18.06980 (07021124)
21.47042 (06110124)
26.57448 (06110124)
26.698798 (06110124)
26.11440 (06110124)
25.60774 (07091324)
27.81637 (07020624)
35.29744 (07020624)
35.29832 (07020624)
36.21774 (07020624)
36.21774 (07020624)
36.21774 (07020624)
36.21774 (07020624)
                                                                                                                                                                                                                                                                 20.42822 (07071924)
19.31979m(05010924)
19.22061 (06071424)
18.80768 (06071424)
18.72782 (07021124)
19.33077 (06110124)
23.61878 (06110124)
26.16812 (06110124)
27.19087 (061101124)
27.26466 (06110124)
27.26466 (06110124)
  3758411.3
3758381.3
                                                                                                                      17. 42675 (07021124)
17. 39541 (07021124)
19. 28894 (06110124)
22. 84872 (06110124)
24. 87740 (06110124)
25. 52273 (06110124)
25. 52273 (06110124)
24. 72687 (06110124)
                                                                                                                                                                                                                                                                                                                                        20.09090 (06071424)
19.54048 (06071424)
19.40542 (07021124)
21.84921 (06110124)
  3758351.3
                                              17.13742 (06110124)
21.02023 (06110124)
23.54241 (06110124)
24.70386 (06110124)
24.88127 (06110124)
24.34184 (06110124)
   3758321 3
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27.61970 (06110124)
28.21541 (06110124)
  3758231.3
  3758201.3
                                               24.34184 (06110124)
23.69181 (07091324)
24.99425 (07091324)
25.22580 (07091324)
28.68776 (07020624)
32.08790 (07020624)
31.92968 (07020624)
   3758171.3
  3758171.3
3758141.3
3758111.3
3758081.3
3758051.3
3758021.3
3757991.3
                                                                                                                      24.72687 (06110124)
25.42898 (07091324)
26.17601 (07091324)
28.38976 (07020624)
32.70552 (07020624)
34.65869 (07020624)
34.08625 (07020624)
                                                                                                                                                                                                                                                                  27.26466 (06110124)
26.67729 (06110124)
27.50548 (07091324)
28.26111 (07091324)
32.89084 (07020624)
37.03214 (07020624)
38.22448 (07020624)
                                                                                                                                                                                                                                                                                                                                        28.21541 (06110124)
28.03665 (06110124)
27.80697 (07091324)
29.17513 (07091324)
32.45545 (07020624)
37.71458 (07020624)
40.02291 (07020624)
                                               31.92968 (U7020624)
29.72818 (07020624)
27.66915 (07030624)
29.39358 (06041124)
32.53907 (06041124)
36.45800 (05122624)
41.22749 (05122624)
                                                                                                                      34.08625 (07020624)
31.97657 (07020624)
29.61386 (07020624)
30.43083 (06041124)
33.96761 (06041124)
37.82602 (05122624)
42.98839 (05122624)
                                                                                                                                                                                           36.217/4 (07020524)
34.41228 (07020624)
31.90631 (07020624)
31.47308 (06041124)
35.44876 (06041124)
39.28264 (05122624)
44.85563 (05122624)
48.61002 (05122624)
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 **MODELOPTS: NonDEAULT CONC
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                                                                                         *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                       ** CONC OF PM10. IN MICROGRAMS/M**3
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                                      371970.44 372000.44
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PAGE
 **MODELOPTS: NonDEAULT CONC
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                                                                                         *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                       1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                     ** CONC OF PM10. IN MICROGRAMS/M**3
                                                    372120.44 372150.44 372180.44 372210.44 :
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RSION 09292 *** *** Site 15 - PM10
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NODRYDPLT NOWETDPLT
                                                                                         *** THE
                                                                                                                      1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                     INCLUDING SOURCE(S): AREA1 , AREA2
                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
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    Y-COORD
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 **MODELOPTs: NonDFAULT CONC
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                                                                                                          *** THE \: 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \: VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
    Y-COORD
(METERS)
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*** AERMOD - VERSION 09292 *** *** Site 15 - PMIO
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**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                         *** THE 1\text{ST} HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl , AREA2 ,
                                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                           ** CONC OF PM10. IN MICROGRAMS/M**3
    (METERS)
                                            X-COORD (METERS)
372270.44 372300.44 372330.44 372360.44 5
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**MODELOPTS: NonDEAULT CONC
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                                                                                                                                              1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                       INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                         ** CONC OF PM10. IN MICROGRAMS/M**3
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31.84232 (06090524)
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30.05815 (07030924)
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187.56221 (07010324)

189.54288 (05121724)

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                                               119.05074m(05012424)
                                                                                                                     131.79173m(05012424)
141.10717m(05012424)
147.99867m(05012424)
154.34376m(05012424)
156.4518m(05012424)
149.40339m(05012424)
153.65365 (07010324)
157.25054 (05121124)
156.30177 (05121124)
156.30174 (05123024)
150.58104 (06123024)
151.54788 (06123024)
151.54788 (05123024)
152.58104 (06123024)
153.32658 (05120824)
135.32658 (05120824)
                                                                                                                        131.79173m(05012424)
                                                                                                                                                                                                                                                                                                                                                 189.80929 (06010124)
203.37714 (07112524)
210.96115 (07112524)
215.88596m(05012424)
216.69404m(05012424)
210.84121 (05121724)
214.08084 (05121724)
215.09391 (05111724)
                                                                                                                                                                                                                                                                        189,07700 (05121724)
190,84289 (06123024)
186,12174 (06123024)
174,55776 (05120824)
144,02139 (05120824)
144,02139 (05122924)
110,32528 (05122924)
110,32528 (05122924)
84,35588 (06120424)
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214.11242 (06123024)
200.91107 (05120824)
189.96141 (05120824)
165.27978 (05120824)
143.76114 (05122924)
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                                                                                                                        124.04106 (05120824)
                                                                                                                       115.61877 (05122924)
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                                                                                                                       106.63187 (05122924)
                                                                                                                                                                                                                                                                                                                                                      98.33377 (06120424
                                                                                                                           94.52670 (05122924)
                                                                                                                                                                                                                                                                                                                                       94.05399 (06120424)
                                                                                                                                                                                                                                                                                                                                                                       PAGE 15
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                        *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, , AREA2 \, ,
                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                      ** CONC OF PM10. IN MICROGRAMS/M**3
    V-COOPD
                                                                                                                                                                           X-COORD (METERS)
                                      372420.44 372450.44
                                                                                                                                                              372480.44 372510.44
                                                                                                                                                                                              73.50954 (05011824) 82.46834 (06120424) 88.15367 (06120424)
71.96845 (06120424) 79.04237 (06120424) 81.26555 (06120424)
70.27812 (06120424) 74.52151 (06120424) 73.91444 (06120424)
67.53177 (06120424) 69.29982 (06120424) 66.51573 (06120424)
64.01583 (06120424) 63.70400 (06120424) 60.19490 (05020424)
59.98069 (06120424) 58.00634 (06120424) 59.07907 (05020424)
55.63773 (06120424) 52.38971 (06120424) 57.32580 (05020424)
51.16385 (06120424) 49.4639 (05020424) 55.08702 (05020424)
46.69292 (06120424) 49.4639 (05020424) 52.50376 (05020424)
43.24833 (05020424) 48.08202 (05020424) 49.70174 (05020424)
                                               87.86210 (05122924) 80.56617 (05122924) 76.23305 (05122924) 66.66030 (05011824) 63.98055 (05122924) 62.68437 (06120424) 54.84636 (06120424) 62.16374 (06120424) 54.27544 (06120424) 58.49395 (06120424) 53.03762 (06120424) 55.72349 (06120424) 55.72349 (06120424)
  3757241.3 |
   3757211.3
  3757181.3
3757151.3
3757151.3 55.98109 (07120924) 62.16374 (06120424) 3757121.3 54.84636 (06120424) 60.70058 (06120424) 3757091.3 54.27544 (06120424) 58.49395 (06120424) 3757061.3 53.03762 (06120424) 55.72349 (06120424) 3757031.3 51.25280 (06120424) 55.25615 (06120424) 3757001.3 49.04669 (06120424) 49.12535 (06120424) 3756971.3 46.52366 (06120424) 49.12535 (06120424) *** AERMOD - VERSION 09292 *** *** Site 15 - PM10
                                                                                                                                                                                                                                                                                                                                                                      06/29/10
15:44:24
PAGE 16
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                         *** THE
                                                                                                                     1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                      INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                       X-COORD (METERS)
    Y-COORD
                                                     372570.44 372600.44
                                                                                                                                  372600.44 372630.44 372660.44
                                                                                                                                                                                                                                                                                                                                                          372690 44
                                                                                                                                                                                       43.14561 (06091124)
45.90131 (06091124)
49.36112 (06090524)
54.10710 (06090524)
                                                40.33293 (06091124)
43.64068 (06091124)
47.21154 (06091124)
51.05864 (06091124)
                                                                                                                                                                                                                                                                                                                                                    44.01699 (07030724)
46.75959 (07030724)
49.78735 (07030724)
  3758411.3
  3758381.3
3758351.3
                                               56.81726 (06090524)
61.40577 (06090524)
69.96910 (06090524)
73.43323 (06090524)
77.05776 (06090524)
76.45065 (06090524)
73.89355 (06090524)
69.44337 (06090524)
89.18949 (06062824)
                                                                                                                                                                                                  54.10710 (06090524)
59.64118 (06090524)
65.99214 (06090524)
73.12124 (06090524)
80.91991 (06090524)
89.21829 (06090524)
                                                                                                                                                                                                                                                                        51.05864 (06091124)

55.75594 (06090524)

61.84791 (06090524)

69.09565 (06090524)

77.63672 (06090524)

87.52301 (06090524)

98.7010 (06090524)

111.04442 (06090524)

124.40205 (06090524)

138.60839 (06090524)

138.74738 (06090524)
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3758321.3
3758291.3
3758261.3
                                                                                                                          61.26515 (06090524)
67.03047 (06090524)
73.00971 (06090524)
79.00582 (06090524)
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53.14521 (07030724)
56.88138 (07030724)
62.02563 (06091124)
   3758231.3
                                                                                                                                                                                                                                                                                                                                                     68.36831 (06090524
                                                                                                                                                                                                                                                                                                                                                      77.73674 (06090524
   3758201.3
                                                                                                                           84.77918 (06090524)
                                                                                                                          84.77918 (06090524)
90.01319 (06090524)
94.25484 (06090524)
96.89115 (06090524)
97.20313 (06090524)
94.64509 (06090524)
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106.46263 (06090524)
114.82020 (06090524)
122.34158 (06090524)
  3758171.3
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119.17203 (06090524)
138.02709 (06090524)
   3758141 3
                                                                                                                                                                                                                                                                          153.47328 (06090524)
168.56503 (06090524)
182.86293 (06090524)
  3758051.3
                                                 80.18949 (06062824)
                                                                                                                                                                                                128.13662 (06090524)
                                                                                                                                                                                                                                                                                                                                                   159.75339 (06090524
  3758021.3
                                                  90.60368 (06062824)
                                                                                                                        93.69098 (06062824)
107.54468 (06062824)
                                                                                                                                                                                                130.84032 (06090524)
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   3757991.3
                                                  96.97374m(05010924)
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194,27160 (06090524)
200,96828 (06090524)
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296,75011 (05021824)
354,97272 (07112524)
434,69665 (07112524)
477,23771 (07112524)
499,87538 (07112524)
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                                              96.97374m(05010924)

99.95217m(05010924)

114.45288 (05021824)

134.13870 (05021824)

150.20347 (05021824)

157.41099 (05021824)

181.56371 (07112524)
                                                                                                                       107.54468 (06062824)
117.99480m(05010924)
124.68456 (05021824)
154.37630 (05021824)
179.16251 (05021824)
190.26021 (05021824)
224.57918 (07112524)
                                                                                                                                                                                               128.99378 (06090524)
135.25472m(05010924)
151.10242m(05010924)
180.42191 (05021824)
221.61756 (05021824)
239.49193 (07112524)
296.88726 (07112524)
                                                                                                                                                                                                                                                                                                                                                 214.48230 (06090524)
250.46453 (06090524)
299.18025 (06090524)
380.85314 (06090524)
556.02803 (05021824)
792.87220 (07112524)
873.59301 (07112524)
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  3757901.3
3757901.3
3757871.3
3757841.3
   3757811.3
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338.96697 (07112524)
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386.92336 (07112524)
383.28149 (07112524)
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228.91263 (07112524)
                                                                                                                        258.19296 (07112524)
284.55219 (07112524)
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  3757751.3
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510.97906 (07112524)
514.53323 (07112524)
510.87247 (07112524)
494.20828 (07112524)
487.29545 (05120824)
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932.08882 (07112524)
933.31196 (07112524)
930.39965 (07112524)
917.53265 (07112524)
873.43878 (07112524)
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245.72451 (07112524)
254.45362 (07112524)
252.68371 (07112524)
                                                                                                                        204.55219 (07112524)
301.99891 (07112524)
310.10047 (07112524)
307.19312 (07112524)
291.61773 (07112524)
   3757631.3
                                               244.21722m(05012424)
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365.46672 (05120824)
   3757601.3
                                               242.51313 (05121724)
249.02422 (05111724)
                                                                                                                        290.37531 (05111724)
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357.30112 (05111724)
338.41995 (05120824)
296.55467 (05120824)
241.82728 (06121824)
204.46570 (06121824)
171.57651 (06010524)
152.68032 (06010524)
134.42136 (06010524)
117.53303 (06010524)
  3757571.3
                                                                                                                        295.32227 (05111724)
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402.18403 (05120824)
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                                            249.02422 (05111724)
247.33929 (05111724)
236.78452 (06123024)
224.33042 (05120824)
195.48509 (05120824)
162.24605 (05122924)
137.45113 (05011824)
119.66843 (05011824)
114.23615 (06120424)
   3757541.3
                                                                                                                        283.70143 (06123024)
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                                                                                                                       283.70143 (06123024)

270.57516 (05120824)

236.33217 (05120824)

189.00662 (06121824)

163.86580 (06121824)

142.61386 (06120424)
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324.59771 (06121824)
260.77161 (06121824)
211.16492 (06010524)
179.19936 (06010524)
151.47134 (06010524)
129.86624 (05020424)
116.84872 (05020424)
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335.09194 (06121824)
255.57834 (06010524)
204.18678 (06010524)
  3757511.3
                                                                                                                                                                                                                                                                                                                                                   185.39420 (07081524)
172.85183 (07081524)
   3757421.3
   3757391.3
  3757361.3
                                                                                                                        131.73081 (06120424)
118.69539 (06120424)
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152.81976 (07081524)
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3757301.3 | 106.37662 (06120424) 105.41134 (06010524) 105.99972 (05020424) 104.40599 (05020424) 144.50476 (07081524) 3757271.3 | 97.06405 (06120424) 94.29220 (06010524) 98.33235 (05020424) 92.64771 (05020424) 136.97475 (07081524) *** AERMOD - VERSION 09292 *** *** Site 15 - PM10 *** 06/29/10 *** 15:44:24
                                                                                                                                                                                                                                                 FLAT
NODRYDPLT NOWETDPLT
                                                                                                              *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                           INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                               ** CONC OF PM10. IN MICROGRAMS/M**3
                                              X-COORD (METERS)
372570.44 372600.44 372630.44 372660.44
    Y-COORD
    Y-COORD |
(METERS) |
                                                                                                                                                                                                                                                                                                                                                                                                                                            372690.44
                                                         87.16869 (06120424) 87.06004 (05020424) 77.64952 (06010524) 82.69673 (05020424) 72.06849 (05020424) 77.67345 (05020424) 69.72769 (05020424) 72.26940 (05020424) 66.68517 (05020424) 66.72378 (05020424) 63.15745 (05020424) 61.22338 (05020424)
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 3757211.3
3757181.3
 3757151.3
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71.88094 (07081524)
70.10082 (07081524)
68.23869 (07081524)
66.31432 (07081524)
64.35766 (07081524)
62.38332 (07081524)
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66.72378 (05020424)
61.22338 (05020424)
55.90355 (05020424)
50.86477 (05020424)
47.17077 (06112824)
45.06138 (05102624)
                                                                                                                                                                                                                                       60.87429 (05020424)
60.87473 (06112824)
57.48968 (05102624)
54.95718 (05102624)
52.35138 (05102624)
49.73501 (05102624)
47.13984 (05102624)
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106.64106 (07081524)
101.61603 (07081524)
96.89074 (07081524)
92.45266 (07081524)
88.29968 (07081524)
 3757121.3
  3757121.3 | 66.68517 (05020424) | 66.72378 (050
3757091.3 | 63.15745 (05020424) | 61.22338 (050
3757061.3 | 59.33525 (05020424) | 55.90355 (050
3757061.3 | 55.37046 (05020424) | 50.86477 (050
3757001.3 | 51.40131 (05020424) | 47.17077 (061
3756971.3 | 47.51267 (05020424) | 45.06138 (051
*** AERMOD - VERSION 09292 *** *** Site 15 - PM10
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3757091.3
3757061.3
3757031.3
3757001.3
 3756971.3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                                 TI.AT
                                                                                                                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                                                              *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                          INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                             ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                 X-COORD (METERS)
    Y-COORD
                                                                372720.44 372750.44 372780.44 372810.44
    (METERS)
                                                                                                                                                                                                                                                                                                                                                                                                                                            372840.44
                                                        53.82884 (07050924) 57.95722 (07050924) 52.74109 (07050924) 54.80386 (07083124) 55.70361 (07083124) 56.32277 (07050924) 64.0593 (07050924) 55.42290 (07050924) 54.80386 (07083124) 60.20014 (07083124) 59.01944 (07050924) 64.0593 (07050924) 65.34290 (07050924) 64.78202 (07083124) 70.89678 (07083124) 65.34000 (07083124) 66.34500 (07050924) 71.25706 (07050924) 65.05340 (07050924) 64.78202 (07083124) 70.89678 (07083124) 66.3463 (07050924) 71.25706 (07050924) 65.05340 (07050924) 77.86329 (07083124) 77.25227 (07083124) 68.63463 (07050924) 75.36672 (07050924) 68.92315 (07050924) 77.86329 (07083124) 84.39274 (07083124) 72.48943 (07050924) 79.87891 (07050924) 74.1522 (07083124) 75.76483 (07050924) 79.87891 (07050924) 74.1522 (07083124) 75.76483 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07050924) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (07083124) 79.87891 (0
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120.24093 (06090524)
144.47337 (06090524)
174.46385 (06090524)
211.97437 (06090524)
260.83818 (06090524)
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3758231.3
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3758111.3
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  3758051 3
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316.49829 (07083124)
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1326.46250 (07111824)
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536.45740 (07081524)
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1382.25793 (06121424)
1392.25793 (06121424)
1392.5793 (06121424)
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298.14046 (07083124)
373.16166 (07083124)
504.42439 (07083124)
1210.38928 (05082924)
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1268.19989 (06121424)
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1338.42711 (07013024)
1349.20686 (07013024)
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263.69513 (07083124)
306.16357 (07083124)
385.11575 (07071524)
664.86769 (06101024)
743.80016 (07111824)
761.66107 (07111824)
748.58946 (07111824)
742.96822 (06101024)
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 3757931.3
                                                                                                                                              330.01835 (06090524)
477.10648 (06090524)
1185.20900 (05082924)
1307.70484 (06121424)
1354.65749 (06121424)
1362.47259 (06121424)
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  3757901.3
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3757871.3
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3757751.3
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1354.52503 (07013024)
1355.21752 (07013024)
1344.40649 (07013024)
1304.10642 (07013024)
1044.93952 (07081524)
498.53198 (07081524)
421.23818 (07081524)
421.23818 (07081524)
323.37175 (07081524)
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3757601.3
                                                   1384.88171 (05010124)
1394.92843 (05010124)
1400.04698 (05010124)
1388.51511 (05010124)
1014.90555 (07081524)
                                                                                                                                              1380.60235 (05010124)
1380.60235 (05010124)
1381.78461 (05010124)
1381.78461 (05010124)
1356.55185 (05010124)
1056.18455 (07081524)
637.77355 (07081524)
512.63216 (07081524)
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735.40482 (06101024)
711.98640 (05102324)
679.42756 (05102324)
620.78969 (06051424)
387.73829 (05040924)
266.66431 (05120324)
220.45611 (05120324)
                                                        593.73811 (07081524)
467.60234 (07081524)
  3757541.3
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336.33670 (07081524)
288.07697 (07081524)
 3757511.3
                                                                                                                                                  512.63216 (07081524)
436.83198 (07081524)
382.59712 (07081524)
340.52624 (07081524)
306.29426 (07081524)
277.59834 (07081524)
253.09934 (07081524)
 3757481.3
                                                         393.16746 (07081524)
341.67191 (07081524)
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157.16476 (05120324)
  3757451 3
3757451.3 341.67191 (07081524) 382.59712 (070
3757421.3 303.08710 (07081524) 340.52624 (070
3757391.3 272.67452 (07081524) 306.29426 (070
3757361.3 247.61086 (07081524) 277.59834 (070
3757331.3 226.91193 (07081524) 253.09934 (070
3757301.3 208.96771 (07081524) 231.94376 (070
3757271.3 193.30545 (07081524) 231.94376 (070
*** AERMOD - VERSION 09292 *** *** Site 15 - PM10
                                                                                                                                                                                                                                                                                                                                         253.24059 (07081524)
253.24059 (07081524)
226.64402 (07081524)
205.50521 (07081524)
188.20434 (07081524)
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133.65189 (05120324)
115.57107 (07081524)
109.69013 (07081524)
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99.70204 (07081524)
95.40152 (07081524)
                                                                                                                                                   231.94376 (07081524)
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161.33626 (07081524)
                                                                                                                                                   213.55351 (07081524)
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15:44:24
PAGE 19
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                                                             *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, , AREA2 \, ,
                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                              X-COORD (METERS)
372720.44 372750.44 372780.44 372810.44 372840.44
                                                                                                                                              197.48267 (07081524) 187.55871 (07081524) 150.61129 (07081524) 91.46793 (07081524) 183.37750 (07081524) 174.82067 (07081524) 141.20116 (07081524) 87.84058 (07081524) 159.92820 (07081524) 153.53093 (07081524) 132.85545 (07081524) 84.48854 (07081524) 159.92820 (07081524) 153.53093 (07081524) 132.85545 (07081524) 84.48854 (07081524) 150.12487 (07081524) 144.53769 (07081524) 118.66123 (07081524) 78.43930 (07081524) 151.35290 (07081524) 118.66123 (07081524) 78.43930 (07081524) 141.35290 (07081524) 132.55841 (07081524) 75.69235 (07081524) 133.46679 (07081524) 129.06812 (07081524) 106.99252 (07081524) 75.69235 (07081524) 129.87681 (07081524) 101.89405 (07081524) 70.65450 (07081524) 119.87681 (07081524) 110.54045 (07081524) 97.20590 (07081524) 70.65450 (07081524) 113.98572 (07081524) 110.64045 (07081524) 92.88198 (07081524) 66.13097 (07081524) cira 15 - PMIO
3757241.3 179.47513 (07081524) 197.48267 (07081524) 3757211.3 167.16534 (07081524) 183.37750 (07081524) 3757181.3 156.14750 (07081524) 170.94405 (07081524) 3757181.3 146.25801 (07081524) 159.92820 (07081524) 3757121.3 137.35741 (07081524) 150.12487 (07081524) 3757091.3 129.33338 (07081524) 141.35290 (07081524) 3757091.3 129.33338 (07081524) 141.35290 (07081524) 3757001.3 122.08500 (07081524) 133.46679 07081524) 3757001.3 109.58037 (07081524) 19.87681 (07081524) 3756971.3 104.17297 (07081524) 119.87681 (07081524) **** AERMOD - VERSION 09292 *** **** Site 15 - PM10
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15:44:24
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**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                           FLAT
                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                    *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, , AREA2 \, ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                             ** CONC OF PM10 IN MICROGRAMS/M**3
   Y-COORD
                                                                                                                                                                                X-COORD (METERS)
                                   372870.44 372900.44 372930.44 372960.44
  (METERS)
                                       $8.78125 (07083124) 59.34018 (07083124) 57.03420 (07083124) 51.99533 (07083124) 63.17849 (07083124) 63.10380 (07083124) 59.75957 (07083124) 53.49153 (07083124) 67.98005 (07083124) 67.06852 (07083124) 62.46531 (07083124) 53.49153 (07083124) 73.22338 (07083124) 75.50321 (07083124) 67.56038 (07083124) 57.8887 (07083124) 75.50321 (07083124) 67.56038 (07083124) 57.8887 (07083124) 78.92137 (07083124) 79.88478 (07083124) 67.56038 (07083124) 57.88897 (05052624) 81.75287 (07083124) 84.27755 (07083124) 71.64320 (07083124) 63.21321 (05052624) 81.75287 (07083124) 84.27755 (07083124) 79.73116 (05052624) 73.15231 (05052624) 106.42900 (07083124) 92.63220 (07083124) 79.73116 (05052624) 73.15231 (05052624) 114.33685 (07083124) 99.37282 (07083124) 79.73116 (05052624) 77.40036 (05052624) 122.50397 (07083124) 99.37282 (07083124) 94.24101 (05052624) 91.85242 (07071524) 139.23731 (07083124) 117.24732 (05052624) 100.40824 (05052624) 91.85242 (07071524) 139.23731 (07083124) 117.24732 (05052624) 122.56387 (07083124) 117.24732 (05052624) 122.65868 (07071524) 139.23731 (07083124) 117.24732 (05052624) 122.65868 (07071524) 139.23731 (07083124) 117.5416 (07071524) 126.672831 (07083124) 117.5416 (07071524) 126.5688 (07071524) 139.23731 (07083124) 117.5416 (07071524) 126.5688 (07071524) 126.62831 (07083124) 117.5416 (07071524) 126.5688 (07071524) 126.62831 (07083124) 117.5416 (07071524) 124.56888 (07071524) 125.66525 (07071524) 135.058624 (07071524) 137.5406 (07071524) 137.5406 (07071524) 138.93614 (07092824) 139.93614 (07092824) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (07001524) 139.93614 (0700152
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3758441.3
3758411.3
3758381.3
3758351.3
3758321.3
3758291.3
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47.89571 (05052624)
51.79863 (05052624)
55.52899 (05052624)
58.97726 (05052624)
62.03489 (05052624)
64.59486 (05052624)
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3758231.3
3758201.3
3758171.3
3758141.3
3758181.3
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77.50917 (07071524)
87.22736 (07071524)
94.88089 (07071524)
99.90152 (07071524)
102.49104 (07071524)
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3758021.3
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188.01473 (06101024)
205.63767 (06101024)
211.58089 (06101024)
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3757961.3
 3757901.3
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 3757841.3
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  3757811.3
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3757811.3
3757781.3
3757751.3
3757721.3
3757691.3
3757661.3
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198.13109 (06101024)
179.38717 (05081824)
179.78643 (05081824)
170.57510 (06051424)
177.44744 (06051424)
177.42169 (06051424)
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241.12063 (06051424)
221.59385 (06051424)
177.80258 (06051424)
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122.49677 (05040924)
106.85798 (05040924)
90.46417 (05040924)
48.56487 (05061324)
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77.98438 (05120324)
74.33959 (05120324)
69.62575 (05120324)
64.35765 (05120324)
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3757601.3
3757571.3
3757541.3
37575481.3
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164.43942 (06051424)
139.86359 (06051424)
110.21881 (06051424)
91.00222 (05012924)
77.94257 (05040924)
69.77464 (05040924)
                                           136.41388 (05120324)
122.63225 (05120324)
109.05747 (05120324)
                                                                                                                  106.91031 (05120324)
103.42618 (05120324)
97.30707 (05120324)
89.81752 (05120324)
 3757451.3
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  3757421.3
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68.88491 (05061324)
66.30261 (05061324)
62.92983 (05120324)
61.69347 (05120324)
59.26848 (05120324)
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3757391.3
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55.78052 (05061324)

53.59064 (05061324)

51.27667 (05120324)
                                                                                                                     81.80279 (05120324)
81.80279 (05120324)
73.81108 (05120324)
66.21785 (05120324)
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                           FLAT
NODRYDPLT NOWETDPLT
                                                                                     *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                               INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                X-COORD (METERS)
372870.44 372900.44 372930.44 372960.44 372990.44
                                                                                                                                                                                                                                                               56.03879 (05120324) 50.40963 (05120324)
52.33660 (05120324) 48.68442 (05120324)
48.44748 (05120324) 46.34409 (05120324)
44.58406 (05120324) 43.62115 (05120324)
                                            63.86846 (07120824) 59.25244 (05120324) 58.93327 (05120324) 59.94922 (07120824) 53.03473 (05120324) 53.64568 (05120324) 56.11757 (07120824) 51.28968 (07120824) 48.68419 (05120324) 52.43898 (07120824) 49.43683 (07120824) 44.15798 (05120324) 48.94464 (07120824) 47.43011 (07120824) 40.11008 (05120324) 45.56137 (07120824) 45.35420 (07120824) 39.21820 (07120824) 42.86639 (07081524) 43.26052 (07120824) 33.41427 (07120824)
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46.34409 (05120324)
43.62115 (05120324)
40.71897 (05120324)
                                            107120824)
52.43898 (07120824)
52.43898 (07120824)
48.94464 (07120824)
45.65137 (07120824)
42.86639 (07081524)
42.42861 (0708167)
41.4477
 3757151.3
 3757121.3
                                                                                                                                                                                                                                                                  40.89631 (05120324)
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39.21820 (07120824)
38.41427 (07120824)
37.46894 (07120824)
36.42945 (07120824)
35.33291 (07120824)
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35.66633 (05091724)
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34.96463 (05120324)
 3757061 3
3757061.3 42.86639 (07081524) 43.26052 (07120824) 3757031.3 42.42861 (07081524) 41.19050 (07120824) 3757001.3 41.94588 (07081524) 39.16594 (07120824) 3756971.3 41.42806 (07081524) 37.19064 (07120824) *** AERMOD - VERSION 09292 *** *** Site 15 - PM10 ***
                                                                                                                                                                                                                                                                34.73284 (05091724) 34.96463 (05120324)
34.73284 (05091724) 32.3029 (05120324)
33.33448 (05091724) 30.94009 (05091724)
31.56666 (05091724) 30.99179 (05091724)
*** 06/29/10
                                                                                                                                                                                                                                                                                                                                                         15:44:24
                                                                                                                                                                                                                                                                                                                                                        PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                             1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                               INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                           X-COORD (METERS)
  Y-COORD |
(METERS) |
                                 373020.44 373050.44 373080.44 373110.44 373140.44
                                                                                                                 44.65299 (05052624) 40.26479 (05052624)
45.82766 (05052624) 44.38979 (07071524)
46.67063 (05052624) 51.19051 (07071524)
50.25709 (07071524) 57.46241 (07071524)
58.10801 (07071524) 62.67051 (07071524)
65.24431 (07071524) 65.24321 (07071524)
                                             46.31067 (05052624)
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                                              48.89433 (05052624)
51.17686 (05052624)
53.10140 (05052624)
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70.06664 (07092824)
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                                              54.60821 (05052624)
57.49447 (07071524)
66.65866 (07071524)
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66.32202 (07071524)

68.06513 (07071524)

67.80776 (07071524)

65.81641 (07071524)

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76:50513 (07071524)

76:00437 (07071524)

73:97961 (07071524)

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3758231.3
3758201.3
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101.03497 (07092824)
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3758051.3
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115.30934 (05081824)
                                                     119.08679 (06101024)
157.13426 (06101024)
180.46796 (06101024)
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135.90536 (06101024)
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158.75816 (06101024)
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157.17290 (06101024)
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141.01675 (06101024)
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193.44547 (06101024)
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181.57023 (06101024)
161.13934 (05102324)
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123.21429 (06101024)
111.30736 (06101024)
106.98310 (05081824)
108.23647 (05081824)
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129.20000 (06051424)
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123.91764 (05081824)
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- VERSION 09292 *** *** Site 15 - PM10
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35.63252 (05040924)
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**MODELOPTs: NonDFAULT CONC
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                                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                        *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                   INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                      ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                     X-COORD (METERS)
                                           373020.44 373050.44 373080.44 373110.44 373140.44
                                                       44.34901 (05061324) 39.96195 (05061324) 34.74536 (05061324) 32.66347 (05040924) 31.95802 (05040924) 42.82254 (05120324) 38.93520 (05061324) 34.94459 (07021324) 30.50209 (05031424) 29.51038 (05040924) 42.17869 (05120324) 37.40681 (05061324) 34.83905 (07021324) 30.74264 (07021324) 28.01411 (06071724) 40.89148 (05120324) 36.4242 (05120324) 39.1937 (07021324) 31.13437 (07021324) 27.05497 (07021324) 39.12847 (05120324) 35.94301 (05120324) 32.30118 (07021324) 30.80303 (07021324) 27.77442 (07021324) 37.05621 (05120324) 34.94884 (05120324) 31.48201 (05120324) 29.83380 (07021324) 27.87170 (07021324) 34.82551 (05120324) 33.58011 (05120324) 31.46614 (05081524) 28.36004 (07021324) 27.39135 (07021324) 30.32506 (05120324) 30.95541 (05120324) 30.85614 (05081524) 28.15132 (05081524) 26.42189 (07021324) 28.20531 (05120324) 32.4095 (05120324) 27.91779 (05120324) 27.87000 (05081524) 25.58731 (07021324) 28.20531 (05120324) 28.40195 (05120324) 27.91779 (05120324) 27.87000 (05081524) 25.58731 (05081524) 28.5010524) 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.5010524 28.
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15:44:24
                                                                                                                                                                                                                                                                                                                                                                                                                                          PAGE 24
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                                       FLAT
                                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                        *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                       ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                X-COORD (METERS)
   Y-COORD
                                           373170.44 373200.44 373230.44 373260.44 373290.44
                                                       50.25717 (07071524) 46.65670 (07071524) 40.33956 (07071524) 29.86496 (07071524) 31.46019 (07092824) 51.03120 (07071524) 45.24476 (07071524) 37.50887 (07071524) 29.86496 (07031824) 31.46019 (07092824) 50.42628 (07071524) 39.42719 (07071524) 34.06856 (07071524) 33.23123 (07092824) 35.52080 (07092824) 48.49980 (07071524) 39.42719 (07071524) 35.49608 (07031824) 37.77192 (07092824) 39.09332 (07092824) 45.47511 (07071524) 38.01113 (07031824) 40.30785 (07092824) 41.80766 (07092824) 42.05057 (07092824) 41.71666 (07071524) 43.18074 (07092824) 44.89206 (07092824) 45.18074 (07092824) 44.35128 (07092824) 46.45976 (07092824) 48.42314 (07092824) 47.7568 (07092824) 47.7683 (07092824) 47.9074 (07092824) 52.50164 (07092824) 52.87550 (07092824) 51.85597 (07092824) 49.71683 (07092824) 51.22973 (06101024) 57.767274 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740 (07092824) 56.40740
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61.92660 (07092824)
3758231.3
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56.49674 (07092824)
59.20227 (07092824)
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117.50401 (06101024)
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66.05370 (06101024)

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66.87837 (06101024)
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*** AERMOD - VERSION 09292 *** *** Site 15 - PMIO
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**MODELOPTS: NonDEAULT CONC
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Site #15 - Localized PM10 Concentrations NODRYDPLT NOWETDPLT *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM10. IN MICROGRAMS/M**3 Y-COORD X-COORD (METERS) 373170.44 373200.44 373230.44 373260.44 373290.44 32.81913 (05012924) 32.99927 (05012924) 32.32020 (05012924) 28.88331 (05012924) 29.95973 (05012924) 27.22408 (06071724) 25.684228 (07092724) 27.49131 (05012924) 25.59569 (07090824) 25.59569 (07090824) 25.3956 (06071724) 25.5537 (07090824) 25.02919 (07090824) 24.80867 (07090824) 23.90163 (06071724) 25.502919 (07090824) 24.80867 (07090824) 24.08616 (0707124) 25.16555 (07021324) 25.00342 (07090824) 24.05316 (07090824) 24.47834 (07021324) 22.80368 (07090824) 24.72726 (07090824) 24.47834 (07021324) 22.85350 (07021324) 24.39329 (07090824) 23.53937 (07021324) 22.59051 (07021324) 22.90086 (07090824) 28.5010 30.95022 (05012924) 29.73058 (05012924) 27.80061 (05012924) 25.34068 (05012924) 24.39687 (07092724) 22.78567 (07092724) 22.84267 (06071724) 23.11870 (07090824) 24.22383 (07090824) 24.3356 (07090824) 30.73371 (05082324) 28.61623 (05012924) 27.46709 (05012924) 25.68829 (05012924) 3757211.3 3757181.3 3757151.3 3757121.3 26.69284 (06071724) 25.52396 (060 25.35969 (07090824) 25.39063 (060 25.02919 (07090824) 24.80867 (070 25.16555 (07021324) 25.00342 (070 25.04897 (07021324) 24.08384 (070 24.47834 (07021324) 22.85350 (070 23.53937 (07021324) 22.59051 (070 23.5000 09292 *** *** Site 15 - PM10 23.82050 (07092724) 23.82050 (07092724) 23.34297 (07092724) 21.94470 (07092724) 21.59769 (06077724) 3757031.3 3757001.3 22.03628 (07090824) 23.52276 (07090824) 3756971.3 | 23.53937 (07021 *** AERMOD - VERSION 09292 *** 24.33526 (07090824) 06/29/10 15:44:24 PAGE FLAT NODRYDPLT NOWETDPLT *** THE $\,$ 1ST HIGHEST 24-HR AVERAGE CONCENTRATION $\,$ VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl $\,$, AREA2 $\,$, *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM10. IN MICROGRAMS/M**3 X-COORD (METERS) Y-COORD Y-COORD (METERS) X-COORD (METERS)
373320.44 373350.44 37340.44 373440.44 31.96957 (07092824) 32.50727 (07092824) 32.41771 (07092824) 3758411.3 3758381.3 3758141.3 3757961.3 3757931.3

29.86247 (07092824) 31.70168 (07092824) 32.60581 (07092824) 32.66187 (07092824) 33.50914 (07092824) 34.53561 (07092824) 34.63784 (07092824) 34.62296 (07092824) 36.68547 (07092824) 36.68547 (07092824) 36.68547 (07092824) 36.68547 (07092824) 36.68547 (07092824) 36.68547 (07092824) 36.68547 (07092824) 36.68547 (07092824) 39.60270 (07092824) 37.10735 (07092824) 34.63375 (07092824) 41.27671 (07092824) 39.60270 (07092824) 37.10735 (07092824) 34.63375 (07092824) 42.55612 (07092824) 40.73574 (06101024) 46.05146 (06101024) 50.53798 (06101024) 45.55137 (06101024) 62.19515 (06101024) 55.95133 (06101024) 59.63963 (06101024) 69.37918 (06101024) 62.19515 (06101024) 68.2594 (06101024) 68.2594 (06101024) 69.37918 (06101024) 81.91684 (06101024) 74.83553 (06101024) 79.2313 (06101024) 89.37415 (06101024) 88.6907 (06101024) 84.20289 (06101024) 79.22712 (06101024) 89.37648 (06101024) 88.9206 (06101024) 84.20289 (06101024) 79.52102 (06101024) 93.50614 (06101024) 86.28897 (06101024) 78.56440 (06101024) 79.71964 (06101024) 89.35964 (06101024) 79.2624 (06101024) 79.50610 (06101024) 79.35964 (06101024) 79.50610 (06 29.86247 (07092824)
33.50914 (07092824)
36.68547 (07092824)
41.27671 (07092824)
41.27671 (07092824)
42.55612 (07092824)
45.55137 (06101024)
57.29465 (06101024)
69.37918 (06101024)
89.37415 (06101024)
89.37415 (06101024)
89.37415 (06101024)
89.37415 (06101024)
89.35964 (06101024)
89.35964 (06101024)
73.39877 (06101024)
73.39877 (06101024)
71.21977 (06052024)
70.20793 (05081824)
72.38301 (05081824)
71.58605 (05081824)
71.58605 (05081824)
64.12747 (05102324)
64.12747 (05102324)
63.02816 (05102324)
57.32106 (05102324) 32.41771 (07092824)
37.71278 (06101024)
45.83403 (06101024)
54.14837 (06101024)
69.32143 (06101024)
69.32143 (06101024)
75.73736 (06101024)
73.96236 (06101024)
73.96236 (06101024) 3758351.3 3758321.3 3758321.3 3758291.3 3758261.3 3758231.3 3758201.3 3758171.3 73.96236 (06101024) 69.44288 (06101024) 63.06467 (06101024) 57.32079 (06052024) 55.90995 (06052024) 55.37055 (05081824) 59.46620 (05081824) 3758111.3 3758081.3 3758081.3 3758051.3 3758021.3 3757991.3 76.53267 (05081824) 68.78963 (05081824) 68.78963 (05081824) 66.58081 (05081824) 61.69184 (05081824) 59.74385 (05102324) 59.74385 (05102324) 53.75344 (07051524) 55.46126 (06060724) 57.59257 (06060724) 58.06367 (06060724) 56.32061 (06060724) 47.37882 (06060724) 47.37882 (06060724) 41.23885 (06060724) 58.81136 (05081824) 56.75002 (05081824) 52.92544 (05081824) 47.57031 (05102324) 3757901.3 3757871.3 56.46146 (05081824) 55.60725 (05102324) 53.81283 (05102324) 51.82604 (0600724) 53.50967 (0600724) 54.18124 (0600724) 53.5528 (0600724) 50.12624 (0600724) 45.76986 (0600724) 51.69965 (05102324) 49.67861 (05102324) 47.82064 (07051524) 3757781.3 48.01395 (05102324 3757751.3 45.86551 (05102324) 45.21168 (07051524) 3757721.3 57.32106 (05102324) 3757721.3 3757691.3 3757661.3 3757631.3 3757601.3 3757571.3 57.32106 (05102324) 59.90144 (06060724) 62.10987 (06060724) 62.22254 (06060724) 59.70781 (06060724) 55.02416 (06060724) 48.97340 (06060724) 47.82064 (07051524) 48.49265 (07051524) 49.83791 (06060724) 50.58828 (06060724) 49.92484 (06060724) 47.71609 (06060724) 44.12981 (06060724) 45.21168 (07051524) 46.13675 (07051524) 46.54395 (06060724) 47.28985 (06060724) 46.94730 (06060724) 45.33775 (06060724) 42.45230 (06060724) 3757541.3 45.76986 (06060724) 40.37504 (06060724) 35.67883 (07110724) 32.31028 (06030824) 31.81235 (05070224) 31.77420 (05070224) 30.77420 (05070224) 30.27263 (05070424) 30.49305 (06051424) 30.94736 (06051424) 3757541.3 3757511.3 3757481.3 3757451.3 3757421.3 42.04781 (06060724) 37.96373 (06030824) 36.77903 (06030824) 35.06242 (05070224) 35.44699 (05070424) 47.37882 (UBUBUT/44) 41.23885 (06060724) 36.38416 (07110724) 34.59246 (06030824) 33.53724 (05070224) 32.98161 (05070224) 32.73506 (05070424) 44.12981 (UBUBUT/24) 39.44898 (06060724) 34.94257 (07110724) 31.75543 (07110724) 29.91742 (05070224) 30.53479 (05070224) 30.12873 (05070224) 42.45230 (06060724) 38.45235 (06060724) 34.17589 (07110724) 31.39727 (07110724) 27.89070 (05070224) 28.97942 (05070224) 34.63112 (05070424) 29.18376 (05070224 3757361.3 3757331.3 34.05071 (06051424) 31.80619 (05070424) 3757331.3 34.08732 (06051424) 32.47187 (06051424) 3757301.3 32.72378 (06051424) 32.14426 (06051424) *** AERMOD - VERSION 09292 *** *** Site 15 - PM10 28.40835 (05070224) 28.27073 (06051424) 28.20521 (05070224 28.27073 (U6U51424) 29.32089 (06051424) *** 26.49694 (05070424) 27.39136 (06051424) 06/29/10 15:44:24 PAGE 27

**MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): AREA1 , AREA2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10. IN MICROGRAMS/M**3

Y-COORD (METERS)	373320.44	373350.44	X-COORD (METERS) 373380.44	373410.44	373440.44
3757241.3 3757211.3 3757181.3 3757181.3 3757121.3 3757091.3 3757091.3 3757001.3 3757001.3 3757001.3 3756971.3	30.52508 (05082324) 28.75838 (05082324) 26.56198 (05012924) 25.47584 (05012924) 23.83179 (05012924) 22.70158 (07092724) 21.16736 (07092724) 20.37434 (06071724) 20.37434 (06071724) 20.83510 (0709824) VERSION 09292 ***	30.36602 (06051424) 28.86919 (05082324) 26.90942 (05082324) 24.74038 (05012924) 23.71177 (05012924) 22.18770 (05012924) 21.65574 (07092724) 21.46193 (07092724) 20.43972 (07092724) 19.17468 (06071724) Site 15 - PM10	30.22129 (06051424) 28.11931 (05082324) 27.28878 (05082324) 25.18052 (05082324) 23.11277 (05012924) 22.13667 (05012924) 20.72485 (05012924) 20.67144 (07092724) 20.61027 (07092724) 19.75426 (07092724)	29.43024 (06051424) 28.31858 (06051424) 26.82741 (05082324) 25.78235 (05082324) 23.56863 (05082324) 21.65325 (05012924) 20.72860 (05512924) 19.41566 (05012924) 19.74193 (07092724) 19.80386 (07092724)	00/25/10
MODELOPTs:	NonDFAULT CONC		FLAT NODRYDPLT NOWETDPLT	*	15:44:24 PAGE 28

^{***} THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): AREA1 , AREA2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10. IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M) Y-C	COORD (M) CONC	(YYMMDDHH)
372922.94 3757605.69 372438.96 3757746.55 372435.35 3757928.94	236.38344 (06051424) 128.67439m (05012424) 72.87056 (05021824)			(05120324) (07020624)
*** AERMOD - VERSION 09292 ***	*** Site 15 - PM10		***	06/29/10 15:44:24
**MODELOPTs: NonDFAULT CONC		FLAT		PAGE 29

FLAT NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM10. IN MICROGRAMS/M**3

DATE NETWORK
GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID ALL HIGH 1ST HIGH VALUE IS 1400.04698 ON 05010124: AT (372720.44, 3757631.30, 10.00, 10.00, 0.00) GC UCARTI

06/29/10 15:44:24 PAGE 30

**MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT

*** Message Summary : AERMOD Model Execution *** ----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s) A Total of 0 Warning Message(s) A Total of 152 Informational Message(s) A Total of 26280 Hours Were Processed A Total of 15 Calm Hours Identified
A Total of 137 Missing Hours Identified (0.52 Percent)

****** FATAL ERROR MESSAGES ******

*** NONE ***

******* WARNING MESSAGES *******

*** NONE ***

*** AERMOD Finishes Successfully ***

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.5.0

** Lakes Environmental Software Inc.

** Date: 6/29/2010

** File: C:\Documents and Settings\ssilverman\Desktop\Site 15\PM25.ADI

**
  ***********
 ** AERMOD Control Pathway

***

**

**
CO STARTING
        STARTING
TITLEONE Site 15 - PM2.5
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24 ANNUAL
URBANDPT 9862049 Los_Angeles_County
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
  **********
** AERMOD Source Pathway
***
**
**
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION AREA1 AREA 372695.400 3757574.990 0.0

** DESCRSRC Exhuast
** DESCRSRC Exhuast LOCATION ARRA2 ARRA 372695.400 3757574.990 0.0

** DESCRSRC Dust

** SOURCE PARAMETERS **
SRCPARAM ARRA1 9.186E-07 4.100 135.440 299.009 0.000 SRCPARAM ARRA1 9.186E-07 4.100 135.440 299.009 0.000 0.000 URBANSRC ARRA1-ARRA2 SRCGROUP ALL
SRCGROUP ALL
SO FINISHED
 SO FINISHED
  **********
** AERMOD Receptor Pathway
***
**
**
RE STARTING
       STARTING
GRIDCART UCARTI STA

XYINC 371970.44 50 30.00 3756971.30 50 30.00

BESCRREC ** **
DISCCART 372922.94 3757605.69
DISCCART 372861.54 3757481.08
DISCCART 372438.96 3757746.55
DISCCART 372431.74 3757838.64
DISCCART 372435.35 3757928.94
DISCCART
DISCCART
RE FINISHED
 *********
 ** AERMOD Meteorology Pathway
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
 ********
 OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
PLOTFILE ANNUAL ALL PM25.AD\ANOUGALL.PLT
OU FINISHED
    *********
   06/29/10
                                                                                                                                                                                                                                                                                                                                                        14:44:27
   **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                           FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                   MODEL SETUP OPTIONS SUMMARY
    _____
    **Model Is Setup For Calculation of Average CONCentration Values.
   **MO GAS DEPOSITION DATA Provided.

**MO PARTICLE DEPOSITION DATA Provided.

**MOO PARTICLE DEPOSITION DATA PROVIDED

**MOODED TO THE PROVIDED TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROVIDED THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF
   **Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s), for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
   **Model Allows User-Specified Options:
1. Stack-tip Downwash.
```

```
2. Model Assumes Receptors on FLAT Terrain.
                      3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR
           and Calculates ANNUAL Averages
**This Run Includes: 2 Source(s);
                                                                                                                          1 Source Group(s); and 2505 Receptor(s)
**The Model Assumes A Pollutant Type of: PM2.5
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
                          Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                   m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model = 3.8 MB of RAM.
06/29/10
                                                                                                                                                                                                                                                                                                                                                         14:44:27
                                                                                                                                                                                                                                                                                                                                                       PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                         NODRYDPLT NOWETDPLT
                                                                                                                                         *** AREA SOURCE DATA ***
                                       NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM
PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA
CATS. /METER*2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                     NUMBER EMISSION RATE COORD (SW CORNER) BASE
                                                                                                                                                                                                                                                                                                     INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
                                                                                                                                                                                                                                                                 OF AREA
        SOURCE
                                                                                                                                                                                                                                                                                                   (METERS)
             ID
                                                                                                                                                                                                                                                                           (DEG.)
                                                                                                                                                                                                                                                                                                          U.00 YES
0.00 YES
        REA1 0 0.91860E-06 372695.4 3757575.0 10.0 REA2 0 0.10050E-04 372695.4 3757575.0 10.0 AERMOD - VERSION 09292 *** Site 15 - PM2.5 ***
     AREA1
                                                                                                                                                                                                                                                                                                                                                       14:44:27
                                                                                                                                                                                                                                                                                                                                                       PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                                                         *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                                    SOURCE IDS
ALL AREA1 , AREA2 ,
*** AERMOD - VERSION 09292 ***
                                                                                                 *** Site 15 - PM2.5
                                                                                                                                                                                                                                                                                                                                                       06/29/10
                                                                                                                                                                                                                                                                                                                                                        14:44:27
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                         FLAT
                                                                                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                                                 *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                      *** X-COORDINATES OF GRID ***
                 371970.4, 372000.4, 372030.4, 372060.4, 372090.4, 372120.4, 372150.4, 372180.4, 372210.4, 372270.4, 372300.4, 372330.4, 372360.4, 372390.4, 37240.4, 372450.4, 372480.4, 372510.4, 372570.4, 372600.4, 37260.4, 37260.4, 372690.4, 372720.4, 372750.4, 372780.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4, 372870.4,
                                                                                                                      *** Y-COORDINATES OF GRID ***
                                                                                                                                                  (METERS)
             3756971.3, 3757001.3, 3757031.3, 3757061.3, 3757091.3, 3757121.3, 3757151.3, 3757181.3, 3757181.3, 3757241.3, 3757271.3, 3757211.3, 3757301.3, 3757301.3, 3757301.3, 3757301.3, 3757301.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757873.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 3757031.3, 
06/29/10
                                                                                                                                                                                                                                                                                                                                                        14:44:27
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
                                                                                                                                                       0.0);
                                                                                           10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
*** Site 15 - PM2.5
            ( 372922.9, 3757605.7,
( 372439.0, 3757746.5,
( 372435.3, 3757928.9,
                                                                                                                                                                                                                                                                                                                        10.0,
10.0,
                                                                                                                                                             0.0);
           AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                       06/29/10
                                                                                                                                                                                                                                                                                                                                                       14:44:27
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                         FLAT
                                                                                                                                                                                         NODRYDPLT NOWETDPLT
                                                                                                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                                                                                                                                    (1=YES; 0=NO)
```

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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                               *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                                                               (METERS/SEC)
  1.54, 3.09, 5.14, 8.23, 10.80,
*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
                                                                                                                                                                                                                            06/29/10
                                                                                                                                                                                                                              14:44:27
                                                                                                                        NODRYDPLT NOWETDPLT
                                                                *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
      Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE
                                                              Upper air station no.:
Name:
Year:
      Surface station no.:
                                  Name: UNKNOWN
                                                                                                                             Name: UNKNOWN
| Name: Unknown | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | Year: 2005 | 
                                             2005
                                  Year:
  First hour of profile data
  YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV 05 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00 05 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00
  14:44:27
PAGE 8
  **MODELOPTS: NonDFAULT CONC
                                                                                                                       FLAT
                                                                                                                       NODRYDPLT NOWETDPLT
                                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                AREA1 , AREA2
                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                      ** CONC OF PM2.5 IN MICROGRAMS/M**3
       r-COORD (METERS)
                             X-COURD (METERS)
371970.44 372000.44 372030.44 372060.44 372090.44 372120.44 372150.44 372180.44 372210.44
                                                                                                          0.31531
0.32227
0.33007
0.33924
0.35045
                                                        0.28602
                                                                                                                                                                                0.37075
    3758441.30 |
                                       0.27355
                                                                                      0.29993
                                                                                                                                        0.33222
                                                                                                                                                                                                                0.39207
                                                                                       0.30675
0.31467
0.32427
0.33600
                                                                                                                                                               0.35847
0.36681
0.37596
0.38646
     3758411.30
3758381.30
                                       0.28072
                                                               0.29291
                                                                                                                                        0.33949
                                                                                                                                                                                        0.37922
                                                                                                                                                                                                                 0.40168
0.41160
                                                                                                                                                                                                                                        0.42561
                                       0.29999
                                                                                                                                                                                        0.39784
     3758291.30
                                       0.32521
                                                               0.33701
                                                                                       0.34982
                                                                                                               0.36409
                                                                                                                                        0.38034
                                                                                                                                                                0.39913
                                                                                                                                                                                         0.42089
                                                                                                                                                                                                                 0.44590
     3758261.30
                                       0.33923
                                                               0.35179
                                                                                       0.36527
                                                                                                               0.37994
                                                                                                                                        0.39621
                                                                                                                                                                0.41468
                                                                                                                                                                                         0.43597
                                                                                                                                                                                                                 0.46069
                                                                                                                                                                                                                                        0.48924
     3758231.30
                                       0.35452
                                                               0.36774
                                                                                                                0.39752
                                                                                                                                        0.41441
                                                                                                                                                                0.43316
                                                                                                                                                                                         0.45436
                                                                                                                                                                                                                 0.47876
                                                                                                                                                                                                                                        0.50708
                                                                                                                                                                                        0.45436
0.47596
0.50049
0.52851
0.56136
0.60062
                                                                                                                0.41680
0.43852
0.46374
0.49350
                                                                                                                                                                0.45417
0.47773
0.50470
0.53640
     3758201.30
                                       0.37184
                                                               0.38553
                                                                                       0.40048
                                                                                                                                        0.43460
                                                                                                                                                                                                                 0.50059
                                                                                                                                                                                                                                        0.52887
    3758171.30
3758141.30
3758111.30
3758081.30
                                       0.39189
                                                               0.40603
                                                                                                                                                                                                                 0.52599
                                       0.41517
0.44200
0.47230
                                                               0.42996
0.45789
0.48995
                                                                                       0.42152
0.44606
0.47495
0.50866
0.54683
                                                                                                                                        0.48321
0.51389
0.55041
                                                                                                                0.52869
                                                                                                                                                                0.57425
                                                                                                                                                                                                                 0.62997
                                                                                                                                                                                                                                        0.66285
0.71448
     3758051.30
                                       0.50553
                                                               0.52559
                                                                                                                0.56935
                                                                                                                                        0.59341
                                                                                                                                                                0.61943
                                                                                                                                                                                         0.64790
                                                                                                                                                                                                                 0.67938
     3758021.30
                                       0.54140
                                                               0.56417
                                                                                       0.58850
                                                                                                                0.61445
                                                                                                                                        0.64212
                                                                                                                                                                0.67174
                                                                                                                                                                                         0.70375
                                                                                                                                                                                                                 0.73872
                                                                                                                                                                                                                                        0.77735
     3757991.30
                                       0.58072
                                                               0.60620
                                                                                        0.63373
                                                                                                                0.66344
                                                                                                                                         0.69545
                                                                                                                                                                0.72989
                                                                                                                                                                                         0.76704
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                                                                                                                                                                                                                                        0.85156
                                       0.62491
0.67523
0.73268
                                                               0.65335
0.70737
0.76954
                                                                                                                                                                                         0 83746
     3757871.30
                                       0.79676
                                                               0.83932
                                                                                        0.88572
                                                                                                                0.93649
                                                                                                                                         0.99228
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                                                                                                                                                                                         1.12227
                                                                                                                                                                                                                 1.19868
                                                                                                                                                                                                                                        1.28456
     3757841.30
                                       0.86447
                                                               0.91343
                                                                                        0.96705
                                                                                                                1.02599
                                                                                                                                         1.09106
                                                                                                                                                                1.16324
                                                                                                                                                                                         1.24372
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                                                                                                                                                                                                                                        1.43602
     3757811.30
                                       0.93305
                                                               0.98889
                                                                                        1.05036
                                                                                                                1.11829
                                                                                                                                         1.19371
                                                                                                                                                                1.27784
                                                                                                                                                                                         1.37224
                                                                                                                                                                                                                 1.47882
                                                                                                                                                                                                                                        1.60001
     3757781.30
                                       1.00308
                                                               1.06639
                                                                                        1.13655
                                                                                                                1.21462
                                                                                                                                            30192
                                                                                                                                                                1.40005
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                                                                                                                1.31944
1.43734
1.56954
     3757751.30
                                       1.07804
                                                               1.14972
                                                                                        1.22973
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                                                                                                                                                                                         1.84017 2.03347
                                                                                                                                                                                                                                        2.22294
2.47933
2.75683
                                       1.25536
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     3757661.30
                                       1.35776
                                                               1.46212
                                                                                       1.57985
1.71489
                                                                                                                1.71340
                                                                                                                                         1.86580
                                                                                                                                                                2.04084
                                                                                                                                                                                         2.24336
     3757631.30
                                       1.46598
                                                               1.58276
                                                                                                                1.86522
                                                                                                                                        2.03729
                                                                                                                                                                2.23546
                                                                                                                                                                                         2.46514
                                                                                                                                                                                                                 2.73303
                                                                                                                                                                                                                                         3.04747
     3757601.30
                                       1.57745
                                                               1.70713
                                                                                        1.85420
                                                                                                           2.02±0.
2.18115
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                                                                                                                                                                                         2.69102
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                                       1 69196
                                                               1 83474
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2 39204

2 63411

2 91299

3 23533

1 99670

3757571 30

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3757541.30 |
                       1.81116
                                       1.96673
                                                       2.14278
                                                                       2.34264
                                                                                                                      3.12702
                                                                                                                                                     3.85763
                                                                                                      2.82992
 3757511.30
3757481.30
                       1.93504
                                       2.10238
                                                       2.29098
                                                                       2.50396
2.65742
                                                                                       2.74486
                                                                                                      3.01759
                                                                                                                      3.32651
                                                                                                                                      3.67644 3.84743
                                                                                                                                                      4.07278
                       2.05973
                                       2.23683
                                                       2.43515
                                                                                       2.90652
                                                                                                      3.18557
                                                                                                                      3.49799
                                                                                                                                                     4.23795
 3757451.30
                        2.17880
                                        2.36236
                                                       2.56620
                                                                       2.79237
                                                                                       3.04308
                                                                                                      3.32062
                                                                                                                      3.62741
                                                                                                                                      3.96609
                                                                                                                                                      4.33929
                                                                                                                                      4.02628
 3757331.30
                        2.48434
                                        2.65340
                                                       2.83296
                                                                       3.02286
                                                                                       3.22255
                                                                                                      3.43092
                                                                                                                      3.64615
                                                                                                                                      3.86537
                                                                                                                                                      4.08452
 3757301.30
                        2.50504
                                       2.66182
                                                       2.82593
                                                                       2.99661
                                                                                       3.17265
                                                                                                      3.35218
                                                                                                                      3.53253
                                                                                                                                      3.70997
3757271.30 | 2.50167
*** AERMOD - VERSION 09292 ***
                                       2.64343 2.78938
*** Site 15 - PM2.5
                                                                       2.93829
                                                                                       3.08838
                                                                                                      3.23720
                                                                                                                      3.38156
                                                                                                                                      3.51745
                                                                                                                                                      3.64014
                                                                                                                                              06/29/10
                                                                                                                                              14:44:27
PAGE 9
                                         ***
**MODELOPTS: NonDFAULT CONC
                                                                            NODRYDPLT NOWETDPLT
                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                     *** THE ANNUAL AVERAGE CONCENTRATION
                                                                              , AREA2
                                        INCLUDING SOURCE(S):
                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                              ** CONC OF PM2.5 IN MICROGRAMS/M**3
   Y-COORD
                                                                   X-COO...
372060.44
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                                                                         X-COORD (METERS)
                     371970.44 372000.44 372030.44
                                                                                    372090.44
                                                                                                372120.44 372150.44
                                                                                                                                  372180.44 372210.44
 3757241.30
                                       2.53285
                                                                                                                      3.00450
 3757211.30
                       2.42569
                                                       2.63862
                                                                      2.74113
2.61282
                                                                                       2.83811
                                                                                                      2.92689
                                                                                                                                      3.06786
 3757181.30
                       2.35787
                                       2.44706
                                                       2.53267
2.41292
                                                                                       2.68538
                                                                                                      2.74794
                                                                                                                      2.79805
                                                                                                                                      2.83326
                                                                                                                                                     2.85125
 3757151.30
                        2.27442
                                       2.34626
                                                                       2.47264
                                                                                       2.52355
                                                                                                      2.56360
                                                                                                                      2.59078
                                                                                                                                      2.60321
                                                                                                                                                     2.59931
 3757121.30
                        2.17918
                                       2.23496
                                                       2.28453
                                                                       2.32632
                                                                                       2.35861
                                                                                                      2.37976
                                                                                                                      2.38818
                                                                                                                                      2.38261
                                                                                                                                                     2.36211
                                       2.23496
2.11751
1.99747
1.87744
                                                       2.15209
                                                                                       2 19493
                                                                                                                      2.19386
 3757031.30
                        1.85964
                                                       1.88773
                                                                       1.88955
                                                                                       1.88215
                                                                                                      1.86513
                                                                                                                      1.83853
                                                                                                                                      1.80266
 3757001.30
                        1.75105
                                       1.75920
                                                       1.75986
                                                                       1.75241
                                                                                       1.73652
                                                                                                      1.71228
                                                                                                                      1.68008
                                                                                                                                      1.64054
 3756971.30 | 1.64418
                                       1.64399
                                                       1.63662
                                                                      1.62182
                                                                                      1.59967
                                                                                                      1.57060
                                                                                                                     1.53523
                                                                                                                                      1.49431
                                                                                                                                                     1.44860
                                         *** Site 15 - PM2.5
                                                                                                                                              06/29/10
                                         ***
                                                                                                                                 ***
                                                                                                                                             14:44:27
PAGE 10
**MODELOPTs: NonDFAULT CONC
                                                                            FLAT
NODRYDPLT NOWETDPLT
                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                     *** THE ANNUAL AVERAGE CONCENTRATION
                                                                              , AREA2
                                        INCLUDING SOURCE(S):
                                                                       AREA1
                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                            ** CONC OF PM2.5
                                                                      IN MICROGRAMS/M**3
   Y-COORD
                                                                          X-COORD (METERS)
                                                                               4 372360.44 372390.44 372420.44 372450.44 372480.44
   (METERS)
                     372240.44 372270.44 372300.44
                                                                   372330.44
 3758411.30
3758381.30
3758351.30
                       0.45066
                                       0.47650
0.49237
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                                                                                       0.55676
0.58247
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 3758321.30
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 3758141.30
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 3758111.30
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 3757541.30
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 3757511.30
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 3757481.30
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3.82566 3.87834
*** Site 15 - PM2.5
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3.55029
 3757301.30
3757271.30
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                                                                                                                      4.30918
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                                                                                                                                              9 3..
06/29/10
14:44:27
PAGE 11
               VERSION 09292 ***
**MODELOPTs: NonDFAULT CONC
                                                                             FLAT
                                                                             NODRYDPLT NOWETDPLT
                     *** THE ANNUAL AVERAGE CONCENTRATION
                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                       AREA1 , AREA2 ,
                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                              ** CONC OF PM2.5
                                                                     IN MICROGRAMS/M**3
   Y-COORD
                                                                         X-COORD (METERS)
                                                                                                    372390.44 372420.44
                                  372270.44
                                                                    372330.44
   (METERS)
                      372240.44
                                                                                                  372390.44
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                                                                      3.46544 3.40935
3.07004 2.99123
71533 2.62476
                                                                                                                     3.18827
 3757241.30
                       3.44103
                                                                                                      3.31688
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                                                                                                                                                     2.83774
 3757211.30
3757181.30
                        3.13963
                                       3.14252
                                                       3.12003
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                                                                                                                     2.75056
2.38410
                                                                                                                                      2.59530
                                                                                                                                                     2.42181
                       2 84999
                                                                                                                                      2 24032
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                                       2 82773
                                                                                                     2 51328
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3757151.30 3757121.30 3757091.30 3757061.30 3757031.30 3757001.30 3756971.30 *** AERMOD -	2.57778 2.32618 2.09686 1.89022 1.70585 1.54259 1.39867 VERSION 09292 ***	2.53781 2.27483 2.03925 1.83038 1.64662 1.48565 1.34486 * *** Site	2.47906 2.20844 1.97025 1.76220 1.58131 1.42420 1.28747 15 - PM2.5	2.40188 2.12819 1.89119 1.68683 1.51075 1.35868 1.22675	2.03586 1.80367 1.60543 1.43565 1.28956	1.51888 1.35658 1.21735	1.60870 1.42783 1.27413 1.14268	*** 00 *** 1	1.39386 1.23584 1.10235 0.98882 0.89168 5/29/10 1:44:27
**MODELOPTs:	NonDFAULT CONC			FLAT	DPLT NOWETD	DI M		P	AGE 12
	***	TAT ATTERNACE OF	NACENTED SELLON				COLIDGE GROUP	AT.T. ***	
	*** THE ANNU	JAL AVERAGE CO INCLUDING		AREA1 ,		3 YEARS FOR	SOURCE GROUP:	ALL ***	
		*** NETWO	ORK ID: UCART1	; NETWORK	TYPE: GRID	CART ***			
		** 0	ONC OF PM2.5	IN MICROGE	RAMS/M**3		**		
Y-COORD					(METERS)				
(METERS)	372510.44							372720.44	
3758441.30		0.66023	0.68212	0.71336	0.75543	0.80503			
3758411.30 3758381.30	0.73043	0.75436	0.72846 0.78029	0.81485	0.86244	0.92108	0.98719	1.05656	1.12044
3758351.30 3758321.30	0.83531	0.86964	0.83836	0.87548				1.24001	
3758291.30 3758261.30	0.89522	0.93684	0.97683	1.02224	1.08235	1.15959	1.25095	1.35229	1.44959 1.59576
3758231.30	1.03170	1.01142	1.05947 1.15286	1.21352	1.28851	1.38545	1.50199	1.63508	1.76778
3758201.30 3758171.30		1.18529	1.25842	1.33125	1.41/20	1.52803 1.69688		1.81612	
3758141.30	1.27959	1.39498	1.51074	1.62481	1.74689	1.89891	2.08541	2.30061	2.52477
3758111.30 3758081.30	1.47662	1.64447	1.82586	1.80642 2.01527	1.95957 2.21356	2.44381	2.72823		2.90724 3.40061
3758051.30 3758021.30	1.59256 1.73087	1.78857 1.95566	2.01189 2.22404	2.25577 2.53492	2.51774 2.88441	2.81636 3.28527	3.18544 3.78443	3.61337 4.36908	4.05871 4.97522
3757991.30	1.90455	2.16102	2.47813 2.80553	2.86702	3.33338	3.88887	4.59406	5.44573	6.32901
3757961.30 3757931.30	2.13480 2.45546	2.43126 2.81169	2.80553 3.26818	3.28437 3.86687	3.90280 4.68143	4.69633 5.84776	5.74695 7.55742	7.09208 9.97436	8.51381 12.64168
3757901.30 3757871.30	2.89886	3.35987	3.96436	4.78011 6.28834	5.93285	7.72957	11.05126	17.07436 124.80025	
3757841.30			6.57997	8.68983	12.53228	21.57579	60.08135	172.41805	186.94255
3757811.30 3757781.30			8.76905 11.37550			30.48081 36.05358		183.59974 188.36515	
3757751.30	8.35272	10.61710	13.88658	18.73701	26.24450	39.30308	79.51884	190.43921	201.62267
3757721.30 3757691.30	11.22739	12.43733 13.90566	15.95004 17.46095	20.91222 22.33536	28.32758 29.50392		81.06086	190.80416	201.75179 200.93268
3757661.30 3757631.30		14.95832	18.44134	23.14142	30.00502			189.62865 186.94879	
3757601.30	13.33042	15.77650	18.88255	23.03279	29.09762	39.69768	75.76429	179.69062	183.70310
3757571.30 3757541.30								66.50377 24.07251	
3757511.30 3757481.30	12.15882	13.52464	14.95192	16.28751		16.92287	15.36767	12.96077	10.23966
3757481.30	9.56005	11.78964 9.85744	9.89018 7.74234	12.65666 9.55773	8.81890	11.24806 7.74269	9.68144 6.53280	5.36801	6.31540 4.41700
3757421.30 3757391.30	8.07007 6.68798	8.02406 6.45603	7.74234 6.05626	7.20662 5.50433	6.44743 4.84848	5.56409 4.17461			3.34083 2.65756
3757361.30	5.49937	5.19347	4.78090	4.28691	3.75719	3.25326	2.81868	2.46074	2.18787
3757331.30 3757301.30	3.73931		3.82794 3.11495 2.57590	3.41175 2.77260				2.04392 1.73604	
3757271.30 *** AERMOD -	3.11783 VERSION 09292 ***	2.85514	2.57590 15 - PM2.5	2.29604	2.03716	1.81746	1.64194	1.50049	1.38473
		***						*** 1	1:44:27 AGE 13
**MODELOPTs:	NonDFAULT CONC			FLAT	OPIT NOWETD	DI.T			
	*** MILE 3378	JAL AVERAGE CO	NIGHNIND S III ON				GOVERNE GROVER	ΔΤ.Τ. ***	
	""" THE ANNO		SOURCE(S):	AREA1 ,		3 TEARS FOR	SOURCE GROUP.	ALL """	
		*** NETWO	ORK ID: UCART1	; NETWORK	TYPE: GRID	CART ***			
		** (ONC OF PM2.5	IN MICROGE	RAMS/M**3		**		
Y-COORD				X-COORD	(METERS)				
(METERS)	372510.44								
3757241.30	2.62560	2 39730	2.16203	1.93300	1 72785	1 55791	1 42282	1.31507	1 22227
3757211.30	2.23397	2 03726	1 83894	1 65133	1 48776	1 35480	1 25113	1 16563	1 08942
3757181.30 3757151.30		1.75023 1.51845	1.58284 1.37718	1.42893 1.25067	1.29775 1.14469	1.19276 1.06115	1.11154 0.99667	1.04283 0.94030 0.85353 0.77927 0.71512 0.65924	0.97904 0.88609
3757121.30 3757091.30	1.45572	1.32920	1.21006	1.10570	1.01951	0.95261	0.90064	0.85353	0.80693
3757061.30	1.13784	1.04353	0.95861	0.88662	0.82882	0.78497	0.74952	0.71512	0.67975
3757031.30 3757001.30			0.86282 0.78168	0.80271 0.73138	0.75514	0.71911	0.68913	0.65924 0.61021	0.62809
3756971.30	0.91296 0.82495 VERSION 09292 ***	0.76426	0.71238	0.67024	0.63754	0.61231	0.59000	0.56691	0.54231
AERMOD -	VERSION 09292 """	***	15 - PM2.5					,,, T,	1:44:2/
**MODELOPTs:	NonDFAULT CONC			FLAT				Pi	AGE 14
					ZDPLT NOWETD				
	*** THE ANNU	JAL AVERAGE CO INCLUDING	NCENTRATION SOURCE(S):	VALUES AVER AREA1 ,		3 YEARS FOR	SOURCE GROUP:	ALL ***	
			ORK ID: UCART1			CART ***			
			ONC OF PM2.5				**		
		** (ONC OF PM2.5				* *		
Y-COORD (METERS)	372780.44	372810.44	372840.44		372900.44				
3758441.30 3758411.30		1.04286	1.07150	1.09391	1.11475	1.13518	1.15371	1.16685 1.25967	1.17080
3758381 30	1 17480	1.22049	1.25666	1.28600	1.31291	1.33697	1.35521	1.36360	1.36004
3758351.30 3758321.30	1.27721 1.39503 1.53174	1.32873	1.07150 1.15801 1.25666 1.36994 1.50108 1.65421	1.40371	1.43389	1.45911	1.47596	1.36360 1.48081 1.61413 1.76741	1.47294
3758291.30	1.53174	1.59924	1.65421	1.69880	1.73497	1.76020	1.77158	1.76741	1.75081

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3758261.30
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8.43525
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16.68157
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32.01735
  3757991.30
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15.07033
28.10953
144.18008
190.47359
197.49524
 3757931.30
3757931.30
3757901.30
3757871.30
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15.41439
20.05472
23.53371
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16.65866
18.59347
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12.32887
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10.94722
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  3757841.30
                                              180.15673
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25.73509
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  3757811.30
                                              183.63923
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  3757781.30
                          199.55747
200.13220
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64.31232
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35.73505
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17.78379
15.95418
13.38870
  3757751 30
                                              184 75952
                                                                                                         25.08226
                                                                                                                                               14.89013
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 3757721.30
3757691.30
                          199.85003
198.61870
196.13347
                                                                  63.42602
61.70471
58.52387
                                                                                     34.72661
32.88546
29.73842
24.51299
                                                                                                        23.96146
22.08989
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13.70291
12.00964
9.88199
7.62140
                                                                                                                                                                  10.80905
9.32329
7.62873
                                              179.67779
173.66599
                                                                                                        19.16633
14.99032
  3757631.30
                          190.83246
177.31773
                                                                  52.56639
                                                                                                                            10.27689
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 3757601.30
                                              159.70925
                                                                  40.56808
                                                                                     16.50923
                                                                                                        10.18675
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                                                                 40.56808
14.09813
7.10421
4.88866
3.70603
2.95683
                                                                                      8.81926
5.53430
4.09630
3.24521
2.66266
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3.53240
2.77387
2.26222
1.90890
1.65258
                                              41.09123
9.77811
5.95864
4.29126
  3757571.30
                           55.82208
14.83180
                                                                                                          6.49864
4.50191
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2.96002
2.44427
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2.57249
2.15097
1.85020
  3757541.30
 3757541.30
3757511.30
3757481.30
3757451.30
                             7.70679
5.10710
3.76397
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2.81041
2.37183
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2.01699
1.71143
1.48794
                                                 3.31514
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  3757421.30
                             2.93968
                                                 2.66095
                                                                   2.43257
                                                                                       2.23839
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  3757391.30
                             2.38611
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                                                                                       1.91229
                                                                                                          1.77799
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  3757361.30
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  3757331.30
                             1.69777
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                                                                                                                                                1.21455
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3757331.30
3757301.30
3757271.30
                                                1.37996 1.49422
1.37403 1.30261
1.21008 1.14839
*** Site 15 - PM2.5
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                              1.47068
                                                                                       1 25825
                                                                                                                                                                    1.02995
                                                                                       1.11165
                                                                                                                                                1.01416
                                                                                                                                                                   0.95681
                                                                                                                                                                                       0.88379
                                                                                                                                                                             06/29/10
                  VERSION 09292
                                                                                                                                                                             14:44:27
                                                                                                                                                                             PAGE 15
**MODELOPTS: NonDFAULT CONC
                                                                                              FLAT
                                                                                              NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                                     VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                                                 , AREA2
                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                         ** CONC OF PM2.5
                                                                                      IN MICROGRAMS/M**3
                                                                                          X-COORD (METERS)
                                                                                                                                          372960.44
                                             372810.44
                                                                                    372870.44
                                                                                                                         372930.44
                                                               372840.44
                                                                                                       372900.44
                                                                                                                                                                372990.44
    (METERS)
 3757241.30
3757211.30
3757181.30
3757151.30
                             1.14404
                                                1.07672
                                                                   1.02284
                                                                                       0.99014
                                                                                                          0.96974
                                                                                                                             0.94931
                                                                                                                                                0.92399
                                                                                                                                                                   0.88630
                                                                                                                                                                                      0.83181
                             1.14404
1.02332
0.92229
0.83675
0.76356
                                                                                      0.88904
0.80440
0.73289
0.67181
                                                                                                                             0.85706
0.77659
0.70673
                                                                                                                                                0.92399
0.84110
0.76607
0.69897
                                                                                                                                                                   0.81799
0.75274
0.69162
                                                                                                                                                                                      0.78041
0.72901
0.67819
                                                 0.96620
                                                                                                          0.87164
                                                0.96620
0.87319
0.79396
0.72577
                                                                   0.91919
0.83234
0.75847
0.69484
                                                                                                          0.78818
                                                                                                                             0.64627
  3757121.30
                                                                                                          0.65643
                                                                                                                                                0.63954
                                                                                                                                                                   0.63534
                                                                                                                                                                                      0.62892
  3757091.30
                             0.70037
                                                0.66662
                                                                   0.63946
                                                                                       0.61898
                                                                                                          0.60429
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                                                                                                                                                0.58728
                                                                                                                                                                   0.58429
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  3757061.30
                             0.64536
                                                0.61491
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                                                                                       0.57278
                                                                                                          0.55912
                                                                                                                             0.54868
                                                                                                                                                0.54149
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 3757031.30
                             0.59715
                                                0.56944
                                                                   0.54788
                                                                                       0.53198
                                                                                                          0.51959
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                                                                                                          0 48464
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                                                0.52921 0.50970
0.49345 0.47560
*** Site 15 - PM2.5
***
                  0.51683
VERSION 09292 ***
                                                                                                                                                                             14:44:27
                                                                                                                                                                             PAGE 16
**MODELOPTs: NonDFAULT CONC
                                                                                              FLAT
                                                                                              NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                                     VALUES AVERAGED OVER \phantom{0} 3 YEARS FOR SOURCE GROUP: ALL AREAl \phantom{0} , AREA2 \phantom{0} ,
                                                  *** NETWORK ID: UCART1
                                                                                     ; NETWORK TYPE: GRIDCART ***
                                                         ** CONC OF PM2.5
                                                                                      IN MICROGRAMS/M**3
                                                                                   X-COORD (METERS)
373140.44 373170.
                                         373080.44
                                                             373110.44
    (METERS)
                                                                                                                         373200.44
                                                                                                                                            373230.44
                                                                                                      373170.44
3758441.30
3758411.30
3758381.30
3758351.30
3758321.30
                             1.16465
                                                1.15111
                                                                   1.13466
                                                                                      1.11922
                                                                                                          1.10693
                                                                                                                             1.09827
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                                               1.15111
1.23423
1.32855
1.43676
1.56245
1.71057
                             1.25029
1.34664
1.45621
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1.28071
1.39889
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1.28197
1.40274
1.54493
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                                                                   1.21688
1.31093
1.41967
1.54693
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1.87921
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1.40739
1.53729
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1.28229
1.39775
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1.40860
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                             1.58230
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 3758291.30
                             1.72944
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  3758261.30
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 3758231.30
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  3758201.30
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 3758171.30
3758141.30
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.04744
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.91951
 3758111.30
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 3758081.30
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  3758051.30
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5.52965
6.13931
6.64209
7.00239
7.20295
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5.27677
5.53464
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 3758021.30
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 3757991.30
3757961.30
3757931.30
3757901.30
                             7.04776
7.96143
8.70184
9.21589
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7.27436
7.79575
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6.06350
6.30219
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4.60994
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4.20706
4.18553
4.09003
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  3757871.30
                             9.49001
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 3757841.30
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  3757811.30
                             9.27202
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  3757691.30
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  3757661.30
                             5.02537
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                                                                    3.62193
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  3757631.30
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                                                                    3.05300
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  3757601.30
                              3.31839
                                                 2.90091
                                                                    2.56608
                                                                                       2.29085
                                                                                                             06120
                                                                                                                             1.86752
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                                                                   2.15338
1.81060
1.53895
  3757571.30
                             2.68483
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                                                                                                            .77583
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                             1.82357
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  3757481.30
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                             1.55402
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                                                                   1.32610
                                                                                                          1.16292
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  3757451.30
                             1.35349
                                                1.24556
                                                                   1.15874
                                                                                       1.08713
                                                                                                          1.02575
                                                                                                                             0.97076
                                                                                                                                                0.91970
                                                                                                                                                                   0.87146
                                                                                                                                                                                      0.82584
  3757421.30
                             1.19954
                                                 1.10441
                                                                   1.02753
                                                                                       0.96489
                                                                                                          0.91259
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 3757391 30
                             1 07695
                                                0 99128
                                                                   0 92221
                                                                                      0.86620
                                                                                                          0 81995
                                                                                                                             0 78069
                                                                                                                                                0 74616
                                                                                                                                                                   0 71442
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3757361.30	0.97991	0.89911 0.83502 0.82602 0.76326 0.77047 0.70651 0.72871 0.66358 *** Site 15 - PM2.5	0.78385	0.74240	0.70785	0.67801		0.65122	0.62614
3757331.30 3757301.30	0.90580 0.84943	0.82602 0.76326 0.77047 0.70651	0.71434 0.65703	0.67576	0.64468 0.58945	0.61868 0.56584		0.59593 0.54618	0.57503 0.52883
3757271.30	0.80447	0.72871 0.66358	0.61184	0.57231	0.54232	0.51931		0.50117	0.48621
""" AERMOD -	VERSION U9292 """	***					***	14	:44:27
**MODELOPTs:	NonDFAULT CONC		FLAT					PA	GE 17
				YDPLT NOWETI	OPLT				
	*** THE ANNU	AL AVERAGE CONCENTRATION	VALUES AVE	RAGED OVER	3 YEARS FOR	SOURCE GROUP:	ALL	***	
		<pre>INCLUDING SOURCE(S):</pre>	AREA1 ,	AREA2 ,					
		*** NETWORK ID: UCAR	rı ; networ	K TYPE: GRII	CART ***				
		** CONC OF PM2.5	IN MICROG	RAMS/M**3		**			
Y-COORD			X-COORD	(METERS)					
(METERS)	373050.44	373080.44 373110.44	373140.44	373170.44					
3757241.30 3757211.30	0.76545 0.72836	0.69604 0.63173 0.66809 0.60743 0.64155 0.58713 0.61444 0.56805 0.58595 0.54844 0.55615 0.52746 0.52549 0.50496 0.49456 0.48122 0.46394 0.45666 0.43419 0.43172 *** Site 15 - PM2.5	0.57778 0.55283	0.53556	0.50360 0.47317	0.47964 0.44707		0.46149	0.44740
3757181.30	0.69097	0.64155 0.58713	0.53430	0.48794	0.45036	0.42148		0.39995	0.38415
3757151.30	0.65257	0.61444 0.56805 0.58595 0.54844	0.51930	0.47345	0.43400	0.40234		0.37815	0.36024
3757091.30	0.57431	0.55615 0.52746	0.49129	0.45198	0.41368	0.37928		0.35038	0.32743
3757031.30	0.49901	0.49456 0.48122	0.45906	0.43044	0.39859	0.36667		0.33700	0.31099
3757001.30 3756971.30	0.46414 0.43174	0.46394 0.45666 0.43419 0.43172	0.44087 0.42161	0.41791	0.39036 0.38107	0.36110 0.35506		0.33260 0.32845	0.30647
*** AERMOD -	VERSION 09292 ***	*** Site 15 - PM2.5					***	06	/29/10
								PA	GE 18
**MODELOPTs:	NonDFAULT CONC		FLAT NODE	YDPLT NOWETI	OPLT				
	*** ***					acuman anoun.			
	*** THE ANNU	AL AVERAGE CONCENTRATION INCLUDING SOURCE(S):	AREA1 ,	AREA2 ,	3 YEARS FOR	SOURCE GROUP:	ALL	***	
		*** NETWORK ID: UCAR	r1 ; NETWORI	K TYPE: GRII	CART ***				
		** CONC OF PM2.5				**			
		" CONC OF PM2.	IN MICROGI	KAMS/M**3					
Y-COORD (METERS)		373350.44 373380.44	X-COORD 373410 44						
3758441.30	1.09057	1.09334 1.09762	1.10334	1.11018					
3758411.30 3758381.30		1.09334 1.09762 1.18785 1.19403 1.29738 1.30520	1.20134 1.31332	1.20912 1.32072					
3758351.30	1.41595	1.42426 1.43264	1.43991	1.44482					
3758321.30 3758291.30									
3758261.30 3758231.30	1.92122	1.73580 1.73764 1.92000 1.91250	1.89822						
3758201.30		2.11977 2.09770 2.32962 2.28704	2.06758 2.23594	2.17742					
3758171.30 3758141.30	2.60076	2.32962 2.28704 2.54104 2.47181 2.74269 2.64143	2.39472 2.53453	2.31133 2.42397					
3758111.30	3.05453	2.92202 2.78554	2.64741	2.50964					
3758081.30 3758051.30	J.241/J	3.00022 2.03034							
3758021.30		3.23325 2.99894							
3757991.30 3757961.30	3.50604	3.24306 2.98529 3.20326 2.92927	2.68183	2.45873					
3757931.30 3757901.30	3.43382 3.31121	3.11733 2.83521 2.99076 2.70899 2.83181 2.55890	2.46116	2.36025					
3757871.30	3.14604 2.94924	2.83181 2.55890 2.65105 2.39459	2.32148	2.11448					
3757841.30 3757811.30	2.73141	2.45738 2.22295	2.02112						
3757781.30 3757751.30		2.25881 2.04898 2.06234 1.87757							
3757721.30	2.05957	1.87336 1.71302	1.57384	1.45216					
3757691.30 3757661.30	1.85467 1.66526	1.69590 1.55831 1.53130 1.41422	1.43815 1.31118	1.33249 1.21992					
3757631.30 3757601.30	1.49090	1.69590 1.55831 1.53130 1.41422 1.37874 1.27994 1.23837 1.15541	1.43815 1.31118 1.19230 1.08139	1.11408 1.01492					
3757571.30	1.10543	1.11097 1.04116	0.97867	0.92236					
3757541.30 3757511.30		0.99717 0.93806 0.89864 0.84820							
3757481.30	0.86188	0.81480 0.77158	0.73192	0.69555					
3757451.30 3757421.30	0.78297	0.74297 0.70585 0.68082 0.64885 0.62636 0.59900 0.57811 0.55486	0.67144 0.61891	0.63956 0.59094					
3757391.30 3757361.30	0.65482	0.62636 0.59900 0.57811 0.55486	0.57295 0.53233	0.54835					
3757331.30	0.55498	0.53522 0.51559	0.49622	0.47729					
3757301.30 3757271.30	0.51255	0.49650 0.48029 0.46034 0.44754	0.46391 0.43427	0.44753 0.42056					
*** AERMOD -	VERSION 09292 ***	*** Site 15 - PM2.5					***		/29/10 :44:27
									GE 19
**MODELOPTS:	NonDFAULT CONC		FLAT NODR	YDPLT NOWETI	PLT				
	*** THE ANNU	AL AVERAGE CONCENTRATION	VALUES AVE	RAGED OVER	3 YEARS FOR	SOURCE GROUP:	AT.T.	***	
		INCLUDING SOURCE(S):							
		*** NETWORK ID: UCAR:	rı ; networ	K TYPE: GRII	CART ***				
		** CONC OF PM2.5	TN MTCROC	RAMS/M**3		**			
		conc or ring.							
Y-COORD (METERS)	373320.44	373350.44 373380.44	X-COORD 373410.44	(METERS) 373440.44					
3757241.30		0.42584 0.41606							
3757211.30 3757181.30		0.39332 0.38560 0.36376 0.35689							
3757151.30	0 34723	0 33780 0 33086	0.32550	0.32092					
3757121.30 3757091.30	0.32642 0.31005	0.31564 0.30797 0.29736 0.28837	U.30244 0.28212	0.29826 0.27772					
3757061.30 3757031.30	0.29788	0.31564 0.30797 0.29736 0.28837 0.28299 0.27220 0.27232 0.25948 0.26489 0.25005	0.26467	0.25956 0.24392					
3757031.30	0.28372	0.26489 0.25005	0.23891	0.24392					

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0.23053
                                                                                                                                                                                                                 0.22081
                                                                                                                                                                                                                                                                                                                                                               06/29/10
                                                                                                                                                                                                                                                                                                                                                                14:44:27
                                                                                                                                                                                                                                                                                                                                                                PAGE 20
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                           FLAT
NODRYDPLT NOWETDPLT
                                                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                X-COORD (M) Y-COORD (M)

372922.94 3757605.69

372438.96 3757746.55

372435.35 3757928.94

*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                               06/29/10
14:44:27
                                                                                                                                                                                                                                                                                                                                                                PAGE 21
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                           FLAT
                                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                      *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, , AREA2 \, ,
                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                     ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                       X-COORD (METERS)
                                     X-COORD (METERS)
371970.44 372000.44 372030.44 372060.44 372090.44
                                          3.69274 (06071424) 3.86320 (06071424) 3.98165m(05010924) 4.45989 (07071924) 3.67282 (07021124) 3.83723 (06071424) 4.04117 (06071424) 4.21823m(05010924) 3.67417 (07021124) 3.81248 (07021124) 3.98735 (06071424) 4.22667 (06071424) 4.22667 (06071424) 4.2667 (06071424) 4.10263 (07021124) 3.77122 (06110124) 3.80797 (07021124) 3.95569 (07021124) 4.10263 (07021124) 4.10263 (07021124) 4.10263 (07021124) 4.10263 (07021124) 5.15996 (06110124) 5.01005 (06110124) 3.92467 (07021124) 4.10263 (07021124) 5.15996 (06110124) 5.45592 (06110124) 5.38972 (06110124) 5.18281 (06110124) 5.45592 (06110124) 5.72625 (06110124) 5.18281 (06110124) 5.45592 (06110124) 5.38972 (06110124) 5.18281 (06110124) 5.34576 (06110124) 5.60589 (06110124) 5.81590 (06110124) 5.97417 (06110124) 5.18680 (07091324) 5.4387 (06110124) 5.81590 (06110124) 5.97417 (06110124) 5.53054 (07091324) 5.5941 (07091324) 5.5941 (07091324) 5.5054 (07091324) 5.73828 (07091324) 5.90785 (07091324) 5.3037 (07020624) 6.26332 (07020624) 7.25900 (07020624) 7.28998 (07020624) 7.63362 (07020624) 7.98083 (07020624) 7.28998 (07020624) 7.63362 (07020624) 7.99683 (07020624) 7.28998 (07020624) 7.51778 (07020624) 7.91314 (07020624) 7.61107 (07020624) 7.61107 (07020624) 7.61107 (07020624) 7.61107 (07020624) 7.61107 (07020624) 7.8888 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.61174 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8131 (07020624) 7.8988 (07020624) 7.8131 (07020624) 7.8988 (07020624) 7.8888 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.8988 (07020624) 7.89
3758441.3 | 3758411.3 | 3758381.3 | 3758351.3 | 3758321.3 | 3758291.3 | 3758261.3 |
                                                                                                                                                                                                                                                                                                                                     5.23860 (06062824)
4.67677 (07071924)
                                                                                                                                                                                                                                                                                                                                                 4.67677 (07071924)
4.47843m(05010924)
4.42057 (06071424)
4.30784 (06071424)
4.25426 (07021124)
4.80159 (06110124)
                                                                                                                                                                                                                                                                                                                                                 4.80159 (06110124)
5.63442 (06110124)
6.06668 (06110124)
6.20553 (06110124)
6.16961 (06110124)
6.10137 (07091324)
7.16284 (07020624)
  3758231.3
3758201.3
  3758201.3
3758171.3
3758141.3
3758111.3
  3758051.3
                                                                                                                                                                                                                                                                                                                                             8.29983 (07020624)

8.81121 (07020624)

8.71866 (07020624)

8.26744 (07020624)

7.75357 (07020624)

8.47249 (06041124)

9.38626 (05122624)

10.77989 (05122624)

11.71017 (05122624)

11.898370 (05122624)

11.898370 (05122624)

13.47818m (05012424)

14.45561m (050124244)

14.67292m (050124244)
                                                                                                                                                                                                                                                                                                                                                  8.29983 (07020624
  3758021.3
  3757991.3
  3757961.3
  3757931.3
3757901.3
3757871.3
  3757841.3
  3757811.3
  3757781.3
  3757661.3
                                                                                                                                                                                                                                                                                                                                             14.45561m(05012424)
14.67222m(05012424)
14.33982m(05012424)
13.74222m(05012424)
13.66893 (06012524)
13.98333 (06012524)
13.83019 (06012524)
13.48848 (05120724)
13.51836 (05120724)
                                                11.60213m(05012424)
                                                                                                                                                                                                                                                                       13.85531m(05012424)
  3757631.3
                                                                                                                        12.31952m(05012424)
12.41125m(05012424)
                                                                                                                                                                                               13.07075m(05012424)
13.03410m(05012424)
| 11.80532m(05012424) | 12.41125m(05012424) | 3757571.3 | 11.71116m(05012424) | 12.19549m(05012424) | 3757541.3 | 11.35585m(05012424) | 12.19549m(05012424) | 3757541.3 | 11.35585m(05012524) | 12.05955 (05012524) | 3757541.3 | 11.65459 (05012524) | 12.05955 (05012524) | 3757451.3 | 11.36645 (05012524) | 11.7573m(05012524) | 3757451.3 | 10.96406 (05012524) | 11.75492 (05012524) | 3757421.3 | 10.96406 (05012524) | 11.33183 (05120724) | 3757391.3 | 10.84135 (05120724) | 11.45133 (05120724) | 3757331.3 | 10.99626 (05121124) | 11.69453 (0512124) | 3757301.3 | 10.99617 (05121124) | 11.69453 (05121124) | *** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
  3757601.3
                                                11.80532m(05012424)
                                                                                                                                                                                                                                                                       13.67555m(05012424)
                                                                                                                                                                                              13.03410m(05012424)
12.69105m(05012424)
12.20106 (06012524)
12.66582 (06012524)
12.65393 (06012524)
12.18139 (06012524)
12.06587 (05120724)
                                                                                                                                                                                                                                                                      13.67555m(05012424)
13.20353m(05012424)
12.91957 (06012524)
13.30064 (06012524)
13.20939 (06012524)
12.66296 (06012524)
12.80024 (05120724)
                                                                                                                                                                                              12.04646 (05120724)
12.33060 (05121124)
12.40849 (05121124)
12.12020 (05121124)
11.59568 (07123024)
                                                                                                                                                                                                                                                                                                                                              13.51836 (05120724)

13.91094 (05121124)

14.09394 (05121124)

13.78949 (05121124)

13.07592 (05121124)

12.57360 (07123024)

06/29/10

14:44:27
                                                                                                                                                                                                                                                                       12.87173 (05121124)
                                                                                                                                                                                                                                                                       13.20344 (05121124)
                                                                                                                                                                                                                                                                       13.20344 (05121124)
13.11670 (05121124)
12.63174 (05121124)
12.14507 (07123024)
***
                                                                                                                                                                                                                                                                                                                                                                PAGE 22
 **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                               FI.AT
                                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                                       *** THE 1ST HIGHEST 24-HR AVERAGE CUNCLIVERING INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                     1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                          X-COORD (METERS)
    Y-COORD
                                                   371970.44 372000.44 372030.44 372060.44 372090.44
    (METERS)
                                              10.53338 (07123024) 11.06224 (07123024) 11.47716 (07123024) 11.77092 (07123024) 12.45514 (05110524) 10.51480 (07123024) 10.81273 (07123024) 10.99270 (07123024) 11.83571 (05110524) 12.77257 (05110524) 10.16231 (07123024) 10.40098 (05110524) 11.23410 (05110524) 12.03268 (05110524) 12.73777 (05110524) 9.93130 (05110524) 10.5054 (05110524) 11.46592 (05111224) 12.515162 (051511224) 12.51614 (05120824) 10.30054 (05111224) 11.03683 (05111224) 11.58472 (05111224) 11.92389 (05120824) 12.37227 (05120824)
3757241.3
3757211.3
3757181.3
3757151.3
3757121.3
 3757121.3 | 10.30044 (05111224) | 11.03568 (05111224) | 3757061.3 | 10.5944 (05111224) | 11.03776 (05111224) | 3757061.3 | 10.51174 (05111224) | 10.67526 (05120824) | 3757031.3 | 10.11140 (05120824) | 10.32425 (05120824) | 3757031.3 | 9.74618 (05120824) | 9.86691 (05100924) | 3756971.3 | 9.34253 (05100924) | 9.78200 (05100924) | *** AERMOD - VERSION 09292 *** Site 15 - PM2.5
                                                                                                                                                                                        11.27853 (05120824)
10.95117 (05120824)
10.44241 (05100924)
10.33399 (05100924)
10.04595 (05100924)
                                                                                                                                                                                                                                                                       11.63254 (05120824)
11.07535 (05100924)
                                                                                                                                                                                                                                                                                                                                               11.78384 (05120824)
11.60848 (05100924)
                                                                                                                                                                                                                                                                       11.07535 (05100924)
10.94042 (05100924)
10.61020 (05100924)
10.08728 (05100924)
***
                                                                                                                                                                                                                                                                                                                                               11.23082 (05100924)
10.64656 (05100924)
9.87189 (05100924)
                                                                                                                                                                                                                                                                                                                                                          06/29/10
                                                                                                                                                                                                                                                                                                                                                               14:44:27
                                                                                                                                                                                                                                                                                                                                                               PAGE 23
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                                       *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, , AREA2 \, ,
                                                                                                      *** NETWORK ID: HCART1 ; NETWORK TYPE: GRIDCART ***
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** CONC OF PM2.5 IN MICROGRAMS/M**3 X-COORD (METERS)
372120.44 372150.44 372180.44 Y-COORD 372210.44 372240.44 6.77712 (06062824) 7.19405 (06062824) 6.47729 (06062824) 7.17531 (06062824) 5.96785 (06062824) 6.89404 (06062824) 5.29119 (06062824) 6.38318 (06062824) 7.25607 (06062824) 7.57713 (06062824) 7.60570 (06062824) 3758411.3 5.58743 (06062824) 4.93119 (06062824) 7.58890 (06062824) 7.98845 (06062824) 6.89404 (06062824) 6.89318 (06062824) 5.68736 (06062824) 5.43718m(05010924) 5.12962m(05010924) 5.06625 (07100124) 5.52114 (06110124) 6.41169 (06110124) 6.81128 (06110124) 6.91415 (06110124) 6.91415 (06110124) 6.86622 (06110124) 7.21698 (06090824) 8.27817 (07020624) 9.61669 (07020624) 9.61669 (07020624) 3758381.3 3758351.3 4.76582m(05010924) 7.34785 (06062824) 8.07213 (06062824 4.76582m(05010924) 4.62301 (06071424) 4.49890 (07100124) 4.46410 (07100124) 5.35479 (06110124) 6.05877 (06110124) 6.36499 (06110124) 6.42692 (06110124) 6.34022 (06110124) 6.56590 (07001334) 8.07213 (06062824) 7.84308 (06062824) 6.60825 (06062824) 6.27559m(05010924) 6.02015 (06092024) 5.90532 (06092024) 3758321 3 5.08358m(05010924) 6 83856 (06062824) 3758321.3 3758291.3 3758261.3 3758231.3 3758201.3 3758171.3 5.08358m(05010924) 4.83600 (06071424) 4.77525 (07100124) 4.86736 (06110124) 5.89637 (06110124) 6.45042 (06110124) 6.83856 (06062824) 6.12458 (06062824) 5.83230m(05010924) 5.51360 (06092024) 5.44809 (06092024) 6.17593 (06110124) 6.45042 (06110124) 6.64443 (06110124) 6.64519 (06110124) 6.67642 (07091324) 6.98861 (07091324) 8.36699 (07020624) 9.41715 (07020624) 9.74731 (07020624) 3758141.3 3758111.3 6.89142 (06110124) 6.81045 (06110124 6.89142 (06110124) 7.15021 (06110124) 7.18470 (06110124) 7.62352 (06090824) 8.11006 (07020624) 9.74333 (07020624) 7.33432 (06110124) 7.47995 (06110124) 8.00523 (06090824) 8.51701 (06090824) 3758081.3 3758081.3 3758051.3 3758021.3 3757991.3 9.14691 (07020624) 9.25172 (07020624) 3757961.3 10.59645 (07020624) 10.19623 (07020624) 10.95057 (07020624 10.19623 (07020624) 9.89914 (07020624) 9.89914 (07020624) 9.60079 (06041124) 10.71111 (05122624) 12.42790 (05122624) 13.50895 (05122624) 13.84966 (05122624) 3757961.3 3757931.3 3757901.3 3757871.3 3757841.3 37577811.3 9.25172 (07020624) 8.91278 (07020624) 8.41517 (07020624) 8.83403 (06041124) 9.78982 (05122624) 11.28593 (05122624) 12.27179 (05122624) 12.57091 (05122624) 9.74731 (07020624) 9.56263 (07020624) 9.13879 (07020624) 9.20917 (06041124) 10.22943 (05122624) 11.83293 (05122624) 12.86970 (05122624) 13.19172 (05122624) 10.59645 (07020624) 10.79303 (07020624) 10.66738 (07020624) 10.43242 (07020624) 11.24220 (05122624) 13.07861 (05122624) 14.19626 (05122624) 14.55031 (05122624) 10.95057 (07020624) 11.355541 (07020624) 11.41772 (07020624) 11.36594 (07020624) 11.83208 (05122624) 13.79449 (05122624) 14.93933 (05122624) 3757751.3 15.30064 (05122624 12.77042m(05012424) 14.91692m(05012424)
16.75803m(05012424)
17.56853m(05012424)
17.35971m(05012424)
15.70590 (06010824)
16.33533 (06012524)
16.63253 (06012524)
16.43537 (06012524)
16.12557 (06012524)
17.15850 (05121124)
17.15850 (05121124)
17.19479 (05121124)
16.49388 (05121124)
16.49388 (05121124) 16.15239m(05012424) 3757721.3 13.79184m(05012424) 17.50378m(05012424 16.15239m(05012424)
18.00025m(05012424)
18.71415m(05012424)
18.36835m(05012424)
17.46157m(05012424)
17.46580(06012524)
17.35086 (06012524)
17.31901 (05120724) 13.79184m(05012424) 15.58928m(05012424) 16.47878m(05012424) 16.41763m(05012424) 15.77212m(05012424) 14.95557m(05012424) 17.50378m(05012424)
19.31593m(05012424)
19.92535m(05012424)
19.47009m(05012424)
18.47622m(05012424)
18.04585 (06012524)
18.83370 (06012524)
19.03691 (06012524) 14.49589m(05012424) 15.44134m(05012424) 15.52548m(05012424) 15.03439m(05012424) 3757691.3 3757661.3 3757601.3 3757571.3 14.32012m(05012424) 3757541.3 3757511.3 19.03691 (06012524)
18.77353 (05121124)
19.75313 (05121124)
19.87628 (05121124)
19.01862 (05121124)
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ite 15 - PMZ.5
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23.80212m(05012424)
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22.75761 (0510524)
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27.13748 (06123024)
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24.99672 (05120824)
23.69761 (05120824)
21.73225 (05100924)
                                             21.22153m(05012424)
20.70427m(05012424)
19.66156m(05012424)
19.53702 (06012524)
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55.81687m(05012424)

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25.55627 (06012524)

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3757391.3 19.62312 (05121124) 20.42706 (0513)
3757361.3 19.00861 (05110524) 20.74824 (0513)
3757331.3 19.23072 (05110524) 20.74824 (0513)
3757301.3 18.75467 (05110524) 20.39156 (0513)
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*** AERMOD - VERSION 09292 *** Site 15 - PM2.5
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NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                     *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                               INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                           X-COORD (METERS)
  Y-COORD
                                                                                                                                                                                                                                                                                            372390.44
                                  372270.44 372300.44 372330.44 372330.44
  (METERS)
                                                                                                                18.13837 (05100924)

16.80205 (05100924)

16.17270 (05122924)

15.57036 (05122924)

14.59799 (05122924)

13.34860 (05122924)

11.93016 (05122924)

10.44331 (05122924)

8.96811 (05122924)

8.1862 (05112824)

Site 15 - PM2.5
                                                                                                                                                                                        18.20905 (05100924)
17.56437 (05122924)
16.80199 (05122924)
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16.75857 (05100924)
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15.83662 (05122924)
3757211.3
3757181.3
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15.662027 (05122924)

14.13344 (05122924)

12.47494 (05122924)

10.76561 (05122924)

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3757151.3
                                             14.93646 (05122924)
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11.31311 (05122924)
3757121.3
                                              14.46051 (05122924)
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3757001.3 | 10.10018 (05122924) | 8.96811 (0512

3756971.3 | 8.79702 (05122924) | 8.31862 (0511

*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
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11.05871 (05122924)
9.89470 (05112824)
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NODRYDPLT NOWETDPLT
**MODELOPTS: NonDFAULT CONC
                                                                                   *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                             , AREA2
                                                                                                INCLUDING SOURCE(S):
                                                                                                                                                                         AREA1
                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                             ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                   X-COORD (METERS)
   Y-COORD
                                  372420.44 372450.44 372480.44 372510.44 372540.44
  (METERS)
                                                7.44992 (06090524)
7.03308 (06090524)
6.53517 (06090524)
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9.86206 (05082524)

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14.23751 (O6062824)
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29.45213 (07112524)

32.76349m(05012424)

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37.8883m(05012424)
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23.01893 (05021824)
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46.66187 (07112524)
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46.61809 (05121724)
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47.43975 (05111724)
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                              31.91602 (05121124)
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24.10409 (05120824)
22.99651 (05122924)
21.44020 (05122924)
VERSION 09292 ***
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41.01311 (06123024)
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35.89122 (05120824)
31.66785 (05122924)
28.37680 (05122924)
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44.28166 (05120824)
41.79755 (05120824)
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26.43070 (05122924)
23.03597 (05011824)
3757481.3
3757451.3
3757451.3
3757421.3
3757391.3
3757361.3
3757331.3
3757301.3
                                                                                                                    23.41232 (05122924)
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18.44217 (06120424)
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                                                                                                   20.76523 (05122924)
*** Site 15 - PM2.5
3757271.3
*** AERMOD
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                                                1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                               INCLUDING SOURCE(S):
                                                                                                                                                                         AREA1 , AREA2 ,
                                                                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                ** CONC OF PM2.5 IN MICROGRAMS/M**3
  Y-COORD |
                                                                                                                                                                                X-COORD (METERS)
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(METERS) | 372420.44 372450.44 372480.44 372510.44 372540.44
                                             19.28850 (05122924) 17.72645 (05122924) 16.22591 (05011824) 16.75728 (05122924) 14.71264 (05011824) 15.72667 (06120424) 14.09621 (05122924) 13.77532 (07120924) 15.34170 (06120424) 12.33743 (07120924) 13.8066 (06120424) 14.73317 (06120424) 11.99363 (06120424) 13.24950 (06120424) 13.9623 (06120424) 13.24950 (06120424) 13.9623 (06120424) 13.24950 (06120424) 13.9623 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (06120424) 13.24950 (
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 3757121.3
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12.88967 (05020424)
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 3757091.3
                                               11.85600 (06120424)
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11.16938 (06120424)
10.20177 (06120424)
9.44887 (05020424)
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10.99673 (05020424)
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10.82847 (05020424)
06/29/10
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                                                                                                                                                                                                                                                                                                                                                                PAGE 29
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                               FLAT
                                                                                                                                                                                                NODRYDDIAT NOWETDRIAT
                                                                                     *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREAl \, , AREA2 \, ,
                                                                                                                                                                                                                                                                                                                                                         ***
                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
   Y-COORD (METERS)
                                    372570.44 372600.44 372630.44 372660.44 372690.44
                                                                                                                                                                                                  9.42869 (06091124) 8.84245 (06091124)
10.03014 (06091124) 9.56228 (06091124)
10.90615 (06090524) 10.33989 (06091124)
11.18855 (06090524) 11.18855 (06090524)
13.16509 (06090524) 12.31768 (06090524)
                                              9.71894 (06090524)
10.59365 (06090524)
11.53690 (06090524)
12.52607 (06090524)
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10.30938 (06090524)
11.26259 (06090524)
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13.51466 (06090524)
14.77460 (06090524)
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9.61772 (07030724)
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10.88596 (07030724)
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13.16509 (06090524)
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3758381.3
                                               13.52594 (06090524)
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  3758321.3
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 3758291.3
                                               14.49876 (06090524)
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16.08198 (06090524)
17.39464 (06090524)
18.66082 (06090524)
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20.75081 (06090524)
21.34499 (06090524)
21.43974 (06090524)
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17.82491 (06090524)
19.64333 (06090524)
21.52981 (06090524)
23.43045 (06090524)
25.27152 (06090524)
26.93428 (06090524)
 3758261.3
                                               15.39606 (06090524)
16.15670 (06090524)
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17.12242 (06090524)
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15.12734 (06090524)
17.18858 (06090524)
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22.71586 (06090524)
26.28072 (06090524)
30.41987 (06090524)
  3758231.3
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19.28782 (06090524)
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27.37504 (06090524)
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65.09610 (050212824)
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3758201.3
3758171.3
3758141.3
3758111.3
3758081.3
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16.71033 (06090524)
16.97052 (06090524)
16.85806 (06090524)
16.32507 (06090524)
15.38088 (06090524)
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20. 91632 (06090524)
20. 97632 (06090524)
23. 80685 (06062824)
25. 92944m (05010924)
27. 54963 (05021824)
34. 06098 (05021824)
39. 49276 (05021824)
49. 68547 (07112524)
57. 12001 (07112524)
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66. 72524 (07112524)
67. 84942 (07112524)
64. 42708 (07112524)
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28.22675 (06090524)
28.22675 (06090524)
28.5196 (06090524)
28.51196 (06090524)
29.90973 (06062824)
33.22123m(05010924)
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48.79170 (05021824)
52.84775 (07112524)
44.84587 (07112524)
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80.63710 (05120824)
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17.75851 (06062824)
20.03540 (06062824)
21.28756m(05010924)
21.59557m(05010924)
25.27650 (05021824)
29.60160 (05021824)
33.12538 (05021824)
34.72075 (05021824)
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35.19379 (06090524)
40.72568 (06090524)
47.22677 (06090524)
55.13596 (06090524)
65.81644 (06090524)
83.53068 (06090524)
119.64902 (05021824)
  3758051.3
3758021.3
 3757991.3
3757961.3
3757931.3
3757901.3
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65.09610 (05021824)
78.03806 (07112524)
95.61555 (07112524)
104,99818 (07112524)
112,45841 (07112524)
113,24620 (07112524)
113,24620 (07112524)
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112,4744 (07112524)
108,73296 (07112524)
107,30810 (05120824)
102,93469 (05120824)
103,93469 (05120824)
104,9352 (06121824)
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171,43152 (06121824)
174,41889 (06121824)
176,1198 (06010524)
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170.16084 (07112524)
187.96549 (07112524)
195.85354 (07112524)
199.48911 (07112524)
200.92472 (07112524)
201.21009 (07112524)
  3757841.3
                                               34.72075 (05021824)
40.18174 (07112524)
45.77070 (07112524)
50.66290 (07112524)
54.33532 (07112524)
56.23352 (07112524)
55.84668 (07112524)
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3757751.3
3757721.3
3757691.3
  3757661.3
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  3757631.3
                                                53.94577m(05012424)
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188.11206 (05120824)
168.27202 (05120824)
102.98086 (06121824)
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55.99151 (06010524)
                                               53.63541 (05121724)
54.97753 (05111724)
54.50924 (05111724)
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45.07390 (06121824)
37.55317 (06010524)
29.39844 (06010524)
25.70953 (06010524)
23.15239 (05020424)
21.46333 (05020424)
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30.29112 (05011824)
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26.38864 (05011824)
24.94528 (06120424)
23.21709 (06120424)
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23.21565 (06120424)
20.61979 (0601
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31.21143 (07120924)
28.76853 (06120424)
25.92080 (06120424)
23.04839 (06010524)
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38.25708 (07081524)
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3757271.3
      ** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                14:44:27
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**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                        *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                  INCLUDING SOURCE(S):
                                                                                                                                                                              AREA1 , AREA2 ,
                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                 X-COORD (METERS)
    Y-COORD
   Y-COORD |
(METERS) |
                                    372570.44 372600.44 372630.44 372630.44 372690.44
     18.01058 (06112824) 28.67453 (07081524)
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27.24164 (07081524)
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24.64675 (07081524)
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16.74205 (07081524)
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 3757151.3
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15.98478 (07081524)
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15.57381 (07081524)
15.14766 (07081524)
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14.26835 (07081524)
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21, 30817 (07081524)
20, 32827 (07081524)
19, 41208 (07081524)
18,55716 (07081524)
06/29/10
 3757091.3
3757091.3
3757061.3
3757031.3
3757001.3
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                               FLAT
NODRYDPLT NOWETDPLT
                                                                                       *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                                                                              AREA1 , AREA2 ,
                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                          X-COORD (METERS)
     Y-COORD
                                                     372720.44 372750.44 372780.44
   (METERS)
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12.26522 (07050924)
12.85716 (07050924)
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13.24066 (07050924)
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12.08223 (07050924)
12.72334 (07050924)
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12.05489 (07083124)
13.07511 (07083124)
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14.31863 (07083124)
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17.41145 (07050924)
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                                                13.49999 (07050924)
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18.86074 (07083124)
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23.28093 (07083124)
26.05231 (07083124)
29.29504 (07083124)
                                                14.20128
14.97008
15.81806
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22.46942 (07083124)
25.44758 (07083124)
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33.46254 (07083124)
45.63121 (07083124)
45.63121 (07083124)
54.17724 (07083124)
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                                               16.75898
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19.72560 (07050924)
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21.08695 (07050924)
22.62088 (07050924)
24.36744 (07050924)
26.38416 (07050924)
29.62503 (07083124)
35.28703 (07083124)
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26.92026 (07083124)
29.70381 (07083124)
32.82091 (07083124)
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40.30736 (07083124)
44.98376 (07083124)
3758171.3
                                               18.99902 (07050924)
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26.61258 (06090524)
31.93881 (06090524)
38.53443 (06090524)
 3758141 3
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33.10118 (07083124)
37.58802 (07083124)
42.91985 (07083124)
57.55775 (07083124)
57.55775 (07083124)
84.75217 (07083124)
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122.90521 (07083124)
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                                                46.78771 (06090524)
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65.50264 (07083124)
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110.43805 (07083124)
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269.21875 (06121424)
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44.23573 (07081524)
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**MODELOPTS: NonDEAULT CONC
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                                                                                      *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                    X-COORD (METERS)
   (METERS)
                                    372720.44 372750.44 372780.44 37280.44 37280.44
                                             39.28831 (07081524) 43.18566 (07081524) 41.03242 (07081524) 33.04291 (07081524) 36.58532 (07081524) 40.08685 (07081524) 38.22705 (07081524) 30.96665 (07081524) 31.9919 (07081524) 33.9529 (07081524) 35.74905 (07081524) 29.12570 (07081524) 31.99919 (07081524) 33.93829 (07081524) 33.54259 (07081524) 27.47956 (07081524) 30.04812 (07081524) 32.78675 (07081524) 31.56564 (07081524) 25.99620 (07081524)
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20.32061 (07081524)
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                                                                                                                                                                                                                                                                                                                                                                  PAGE 33
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                               FLAT
                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                      *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL
                                                                                                INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                    *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                  X-COORD (METERS)
                                    372870.44 372900.44 372930.44 372960.44 372990.44
                                             12.89421 (07083124) 13.00372 (07083124) 12.49628 (07083124) 11.40395 (07083124) 13.85305 (07083124) 13.82568 (07083124) 13.09512 (07083124) 11.73886 (07083124) 14.90039 (07083124) 15.59984 (07083124) 14.2739 (07083124) 12.03174 (07083124) 16.04456 (07083124) 15.59984 (07083124) 14.27239 (07083124) 12.26813 (07083124) 17.28888 (07083124) 16.54151 (07083124) 14.82280 (07083124) 12.64217 (05052624) 18.63775 (07083124) 17.50550 (07083124) 15.32286 (07083124) 13.80069 (05052624) 18.63775 (07083124) 18.4556 (07083124) 18.4556 (07083124) 18.4556 (07083124) 18.4556 (07083124) 18.4556 (07083124) 18.4556 (07083124) 18.4556 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 (07083124) 18.4565 
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14:44:27
PAGE 34
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                   *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                                                                                                                            , AREA2
                                                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                      X-COORD (METERS)
     Y-COORD
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                                           372870.44 372900.44
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                                                13.95389 (07120824) 13.03718 (05120324) 12.94591 (05120324) 12.30155 (05120324) 11.07313 (05120324) 13.09117 (07120824) 11.67842 (05120324) 11.79100 (05120324) 11.48966 (05120324) 10.68691 (05120324) 12.24964 (07120824) 11.21575 (07120824) 10.70805 (05120324) 10.63967 (05120324) 10.17074 (05120324) 11.44312 (07120824) 10.80106 (07120824) 9.71999 (05120324) 9.97963 (05120324) 9.57425 (05120324) 10.67803 (07120824) 10.35495 (07120824) 8.83572 (05120324) 8.99280 (05120324) 8.99280 (05120324) 8.99280 (05120324) 8.99280 (05120324) 9.64226 (07081524) 9.43331 (07120824) 8.40492 (07120824) 7.77790 (05091724) 7.68697 (05120324) 9.52857 (071208124) 8.99780 (07120824) 8.99780 (05120324) 8.99780 (05120324) 9.58657 (07081524) 8.97749 (07120824) 8.19004 (07120824) 7.57103 (05091724) 7.68697 (05120324) 9.52857 (0712081524) 8.57259 (07120824) 8.19004 (07120824) 7.57103 (05091724) 7.10693 (05120324) 9.40640 (07081524) 8.57259 (07120824) 8.19004 (07120824) 7.57103 (05091724) 7.10693 (05120324) 9.40640 (07081524) 8.57259 (07120824) 8.19004 (07120824) 7.57103 (05091724) 7.10693 (05120324)
  3757211.3
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  3757121.3
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8.97749 (07120824) 8.19004 (07120824)
8.53252 (07120824) 7.95573 (07120824)
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9.27778 (07081524) 8.09922 (071:
SION 09292 *** *** Site 15 - PM2.5
  3757001.3
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6.88120 (05091724)
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 3756971.3 | 9.27778 (0708
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                                                             06/29/10
14:44:27
PAGE 35
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                                                                                THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                   *** THE
                                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
     Y-COORD
                                                                                                                                                                                                       X-COORD (METERS)
                                                          373020.44 373050.44 373080.44 373110.44 373140.44
     (METERS)
                                                                                                                                9.74892 (05052624) 8.81567 (05052624) 9.94111 (07071524) 10.89056 (07071524) 10.01487 (05052624) 9.72831 (07071524) 11.13741 (07071524) 11.61148 (07071524) 11.02180 (05052624) 11.19184 (07071524) 12.16107 (07071524) 12.05461 (07071524) 11.01916 (07071524) 12.05461 (07071524) 12.17676 (07071524) 12.71185 (07071524) 13.67517 (07071524) 13.34559 (07071524) 11.96947 (07071524) 14.25565 (07071524) 14.47775 (07071524) 13.3952 (07071524) 11.46594 (07071524) 15.51414 (07071524) 14.8757 (07071524) 13.08634 (07071524) 10.74213 (07071524) 16.36927 (07071524) 14.85379 (07071524) 12.48486 (07071524) 11.07916 (07031824) 16.75197 (07071524) 14.85379 (07071524) 12.1868 (07071524) 11.07916 (07031824) 16.75197 (07071524) 14.85379 (07071524) 12.1868 (07071524) 11.07916 (07031824) 16.75197 (07071524) 14.85379 (07071524) 12.1868 (07071524) 11.07916 (07031824)
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12.61436 (07071524)
14.59479 (07071524)
16.37999 (07071524)
17.80784 (07071524)
 3758411.3
3758381.3
3758351.3
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12.71185 (07071524)
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16.68929 (07071524)
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21.43002 (07092824)
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37.47895 (06101024)
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13.39625 (07071524)
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12.13069 (07031824)
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32.52064 (06101024)
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32.52064 (06101024)
  3758321.3
   3758291.3
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13. 82162 (07071524)
15. 32359 (07092824)
17. 22853 (07092824)
18. 83955 (07092824)
24. 19420 (06101024)
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33. 64891 (06101024)
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18.74848 (07071524)
19.16514 (07071524)
  3758201.3
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29.96429 (06101024)
  3758141.3
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19.15954 (07071524)

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38.05447 (06101024)
38.05447 (06101024)
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31.53878 (06101024)
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29.19982 (05081824)
29.19982 (06061242)
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28.21486 (05090224)
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32.09748 (06101024)
30.96245 (06101024)
28.97276 (06101024)
25.76860 (05081824)
25.44243 (05081824)
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28.96245 (06101024)
27.19044 (06101024)
24.57757 (06101024)
23.59633 (05081824)
23.86483 (05081824)
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28.02577 (05102324)
27.34078 (05081824)
26.47307 (06060724)
26.51603 (06060724)
25.36523 (06051424)
24.64608 (06051424)
22.65687 (06051424)
19.95422 (06051424)
  3757781.3
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23.83670 (06060724)
24.18988 (06060724)
23.59577 (06060724)
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21.50934 (06051424)
18.39063 (06051424)
18.39063 (06051424)
13.34448 (06051424)
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22.11188 (06060724)
21.78478 (06060724)
20.65446 (06060724)
18.71697 (06060724)
18.01301 (06051424)
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3757691.3
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32.39177 (06060724)
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33.47822 (06051424)
33.9983 (06051424)
31.91758 (06051424)
27.89841 (06051424)
22.94810 (06051424)
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   3757571.3
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13.94303 (05070424)
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14.39328
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12.49922
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  3757391.3
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  3757361.3
                                                      11.59376 (05040924)
10.47282 (05061324)
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9.87760 (05012924)
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9.45232 (05012924)
  3757331.3
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 8.84605 (05040924)
8.03850 (05040924)
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7.86236 (05040924)
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06/29/10
14:44:27
PAGE 36
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                  *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 \, , AREA2 \, ,
                                                                                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                     X-COORD (METERS)
     Y-COORD
                                                                                                                                  373050.44 373080.44 373110.44 373140.44
     (METERS)
                                                         9.74921 (05061324) 8.80269 (05061324) 7.67238 (05061324) 7.20555 (05040924) 7.05062 (05040924)
9.41328 (05120324) 8.56687 (05061324) 7.66795 (05061324) 6.70595 (05031424) 6.50909 (05040924)
9.26192 (05120324) 8.22359 (05061324) 7.61362 (07021324) 6.73681 (07021324) 6.14008 (06071724)
  3757241.3 |
  3757211.3
3757181.3
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Site #15 - Localized PM2.5 Concentrations

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7.89051 (05120324)
7.66843 (05120324)
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7.04756 (07021324)
6.91555 (05120324)
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6.72743 (07021324)
6.51054 (07021324)
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6.07966 (07021324)
6.09121 (07021324)
3757151.3 |
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8.58557 (05120324)
8.13210 (05120324)
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3757091.3
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5.97999 (07021324)

5.76515 (07021324)

5.47306 (07021324)

5.57227 (05081524)

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6.73291 (05081524)
6.45361 (05081524)
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7.01412 (05120324)
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6.14857 (05081524)
6.18429 (05081524)
6.07666 (05081524)
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7.507306.13 7.50227 (05120324) 7.50720 (0512
3757001.3 7.51027 (05120324) 7.01412 (0512
3757001.3 6.66593 (05120324) 6.63108 (0512
3756971.3 6.20457 (05120324) 6.23824 (0512
*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
                                                                                            6.63108 (05120324)
6.23824 (05120324)
                                                                                                                                                                                                                                                                         14:44:27
                                                                                                                                                                                                                                                                         PAGE 37
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                FI.AT
                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                 *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                       1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                    ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                      373170.44 373200.44 373230.44
                                                                                                                                                                                                          373260.44
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  (METERS)
                                                                                                                                             8.83295 (07071524) 7.21950 (07071524)
8.24426 (07071524) 6.59429 (07031824)
7.52568 (07071524) 7.32601 (07031824)
7.83215 (07031824) 8.30984 (07092824)
8.86998 (07092824) 9.19388 (07092824)
9.87447 (07092824) 9.93606 (07092824)
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                                 10.94533 (07071524)
11.12628 (07071524)
11.01573 (07071524)
11.052491 (07071524)
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9.21625 (07071524)
10.22884 (07092824)
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9.38006 (07071524)
8.68794 (07071524)
8.39017 (07031824)
9.50455 (07092824)
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3758441.3
3758381.3
3758351.3
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21.37978 (06101024)
3758291.3
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14.69105 (06060724)
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12.70930 (06060724)
11.18727 (06060724)
9.48572 (06060724)
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*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
                                                                                           8.09034 (05012924)
7.77073 (05012924)
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7.40234 (05012924)
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                                                                                                                                               FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                 *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                         INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                      ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                      373170.44 373200.44
                                                                                                                             X-COORD (METERS)
  Y-COORD
  (METERS)
                                                                                                                   373230.44
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                                    7.22926 (05012924) 7.26232 (05012924) 7.11025 (05012924) 6.80952 (05012924) 6.37217 (05012924) 6.59882 (05012924) 6.64856 (05012924) 6.53835 (05012924) 5.96450 (06071724) 5.91448 (07092724) 6.05474 (05012924) 6.11597 (05012924) 5.84552 (06071724) 5.8683 (06071724) 5.26452 (07092724) 5.5679 (05012924) 5.54799 (07090824) 5.55620 (06071724) 5.23086 (06071724) 5.36527 (07092724)
3757211.3
3757181.3
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6.03880 (05012924)
3757151.3
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3757121.3
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4.99551 (07021324)
4.93339 (07021324)
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5.05323 (07090824)
3757001.3 | 5.34302 (07021324) 4.99551 (070
3756971.3 | 5.13624 (07021324) 4.93339 (070
*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
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5.00564 (07090824)
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5.13411 (07090824)
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14:44:27
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NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                       1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                         INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                   X-COORD (METERS)
  Y-COORD
  (METERS)
                                       373320.44 373350.44 373380.44 373410.44
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9.36201 (07092824)
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7.14587 (07092824)
7.13450 (07092824)
8.34950 (06101024)
10.11405 (06101024)
11.91736 (06101024)
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7.58904 (07092824)
8.09423 (07092824)
3758411.3
3758381.3
3758351.3
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3758321.3
3758291.3
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9.03755 (06101024)
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10.18203 (06101024)
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11.14531 (06101024)
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Site #15 - Localized PM2.5 Concentrations

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13.11803 (06101024)
14.98265 (06101024)
16.49153 (06101024)
17.36218 (06101024)
17.44070 (06101024)
15.77039 (06101024)
15.57039 (06101024)
13.29025 (06101024)
13.2925 (06101024)
13.2503 (06052024)
13.26503 (05081824)
13.64043 (05081824)
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14.47890 (06101024)
16.41993 (06101024)
17.83731 (06101024)
18.46063 (06101024)
18.22657 (06101024)
17.27825 (06101024)
15.82311 (06101024)
14.18075 (06052024)
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12.64843 (06101024)
15.26878 (06101024)
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13.69751 (06101024)
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16.24426 (06101024)
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17.71596 (06101024)
17.71596 (06101024)
19.60233 (06101024)
20.57136 (06101024)
19.65584 (06101024)
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15.65580 (06052024)
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15.42091 (05081824)
15.73550 (05081824)
14.79810 (05081824)
14.79810 (05081824)
14.12027 (05102324)
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13.87365 (05060724)
13.6788 (06060724)
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16.03635 (06101024)
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16.23293 (06101024)
15.27202 (06101024)
13.90292 (06101024)
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14.31312 (06052024)
14.82759 (05081824)
15.11564 (05081824)
15.124217 (05081824)
14.63335 (05081824)
13.57182 (05081824)
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13.80723 (06052024)
13.67935 (05081824)
14.23480 (05081824)
14.2361 (05081824)
14.20361 (05081824)
13.58148 (05081824)
12.42634 (05081824)
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12.83134 (05081824)

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12.46575 (05081824)

11.63772 (05081824)

10.48766 (05102324)
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10.94789 (05102324)
      3757841.3
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12.4263 (USUBLEZ4)
12.24165 (USIU3224)
11.85215 (USIU3224)
11.17227 (U7USLEZ4)
11.37656 (06060724)
11.80744 (USUBLEZ4)
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11.95896 (USUBLEZ4)
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3757301.3 7.48472 (06051424) 7.13401 (0605
3757271.3 7.17708 (06051424) 7.04921 (0605
*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
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7.04921 (06051424)
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14:44:27
                                                                                                                                                                                                                                                                                                                                                                                                                                        PAGE 40
     **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                        FLAT
                                                                                                                                                                                                                                        NODRYDPIAT NOWETDPIAT
                                                                                                          *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): AREA1 , AREA2 ,
                                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                              X-COORD (METERS)
373380.44
                                                373320.44 373350.44
        Y-COORD (METERS)
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                                                    6.66677 (05082324) 6.65672 (06051424) 6.62178 (06051424) 6.44828 (06051424) 6.28088 (05082324) 6.30095 (05082324) 6.15695 (06051424) 6.20169 (06051424) 5.83890 (05012924) 5.87526 (05082324) 5.95284 (05082324) 5.85079 (05082324) 5.59951 (05012924) 5.43646 (05012924) 5.49676 (05082324) 5.62189 (05082324) 5.24138 (05012924) 5.21054 (05012924) 5.70714 (05012924) 5.14448 (05082324) 4.98151 (07092724) 4.78923 (05012924) 4.86343 (05012924) 5.14448 (05082324) 4.91124 (07092724) 4.74868 (07092724) 4.55701 (05012924) 4.55323 (05012924) 4.65151 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (07092724) 4.78077 (0709
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4.55701 (05012924)
4.55701 (05012924)
4.52998 (07092724)
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      3757061.3
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4.27372 (05012924)
4.00979 (05012924)
4.12861 (07092724)
06/29/10
14:44:27
    3/5/061.3 4.51124 (0/092/24) 4./4886 (0/092/24) 3757001.3 4.65151 (0/092/24) 4.70807 (0/092/24) 3757001.3 4.44984 (06071724) 4.48784 (07092/24) 3756971.3 4.55706 (07090824) 4.18701 (06071724) *** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5
                                                                                                                                                                                                                                                                                                                                   4.26868 (05012924)
                                                                                                                                                                                                                                                                                                                                   4.32386 (07092724)
                                                                                                                                                                                                                                                                                                                                                                                                                                         PAGE 41
     **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                        FLAT
                                                                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                           *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, AREAl \, , AREA2 \, ,
                                                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                        CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

52.19093 (06051424) 372861.54 3757481.08 35.40107 (05120324)
28.41106m (05012424) 372431.74 3757838.64 19.50739 (07020624)
16.09736 (05021824)

*** Site 15 - PM2.5
           X-COORD (M) Y-COORD (M)
                           372922.94 3757605.69
372438.96 3757746.55
372435.35 3757928.94
    372435.35 3757928.94
*** AERMOD - VERSION 09292 ***
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                                                                                                                                                                                                                                                                                                                                                                                                                                        14:44:27
PAGE 42
     **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                    FLAT
NODRYDPLT NOWETDPLT
                                                                                                                             *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***
                                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
GROUP ID
                                                                                                          AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE
                                                                                                            201.75179 AT ( 372750.44, 3757721.30, 201.62267 AT ( 372750.44, 3757751.30, 200.93268 AT ( 372750.44, 3757691.30, 200.33969 AT ( 372750.44, 37577691.30, 200.13920 AT ( 372750.44, 3757781.30, 199.85003 AT ( 372780.44, 3757781.30, 199.55747 AT ( 372780.44, 3757781.30, 199.05273 AT ( 372780.44, 3757661.30, 199.05273 AT ( 372780.44, 3757691.30, 198.61870 AT ( 372780.44, 3757691.30, 197.49524 AT ( 372780.44, 3757691.30, 197.49524 AT ( 372780.44, 3757811.30,
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2ND HIGHEST VALUE IS
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                                                                                                                                                                                                                                                                                                                                                                                                 UCART1
UCART1
UCART1
                                                                                                                                                                                                                                                                                                                                                                                    GC
GC
GC
GC
                                                                                                                                                                                                                                                                                   10.00
                                                                                                                                                                                                                                                                                                                       10.00
                                                                                                                                                                                                                                                                                                                                                           0.00)
                                                                                                                                                                                                                                                                                                                     10.00,
                                                                                                                                                                                                                                                                                                                                                          0.00)
   *** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCORT

DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Site 15 - PM2.5

***
                                                                                                                                                                                                                                                                                                                                                                                                                                          14:44:27
                                                                                                                                                                                                                                                                                                                                                                                                                                         PAGE 43
    **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                        FI.AT
```

Site #15 - Localized PM2.5 Concentrations

NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM2.5 IN MICROGRAMS/M**3

GROUP ID	AVERAGE CONC (DATE YYMMDDHH)	RECEPT	FOR (XR, YR,	ZELEV, ZHI	LL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE 1	S 298.08557 ON	05010124: AT (372720.44,	3757631.30,	10.00,	10.00,	0.00) GC	UCART1
*** RECEPTOR TYPES: GC = GRII GP = GRII DC = DISC	POLR							
DP = DISC *** AERMOD - VERSION 09292 ***		12.5				***	06/29 14:44 PAGE	:27
**MODELOPTS: NonDFAULT CONC		-	LAT ODRYDPLT NOW	ETDPLT				
*** Message Summary : AERMOD N	odel Execution ***							
Summary of Total Me	ssages							
A Total of 0 Fatal A Total of 0 Warnin A Total of 152 Inform	g Message(s)							
A Total of 26280 Hours	Were Processed							
A Total of 15 Calm F	ours Identified							
A Total of 137 Missir	g Hours Identified (0.52 Percent)						
******* FATAL ERROR MESSAC *** NONE ***	ES ******							
****** WARNING MESSAGES *** NONE ***	*****							

```
**
** AERMOD Input Produced by:

* AERMOD View Ver. 6.7.1

* Lakes Environmental Software Inc.

* Date: 10/26/2010

* File: C:\Documents and Settings\jbailey\Desktop\Site 17\CO.ADI

**
 .....
 ** AERMOD Control Pathway
CO STARTING
      STARTING
TITLEONE Site 15 - CO
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 8
URBANOPT 9862049
      POLLUTID CO
      RUNORNOT RUN
 CO FINISHED
 .....
** AERMOD Source Pathway
SO STARTING

** Source Location **

*Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1 VOLUME 373572.330 3750796.917 0.0

** DESCRSRC Equipment

** Source Parameters **
SRCPARAM VOL1 0.5481 4.100 46.783 1.163
URBANSRC VOL1
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED

**
 SO STARTING
 ***************
 ** AERMOD Receptor Pathway
RE STARTING
     GRIDCART UCART2 STA
                                 XYINC 372437.24 21 121.72 3749713.16 21 111.63
     XYINC 372437.24 21
GRIDCART UCART2 END
DESCRREC ** **
DISCCART 372647.17 3750290.48
DISCCART 373809.89 3750294.52
DISCCART 373814.43 3750290.48
DISCCART 373842.19 3751158.48
DISCCART 37382.20 3751158.48
DISCCART 37382.20 3751416.86
DISCCART 374060.20 3751340.15
DISCCART 373842.19 3751158.48
DISCCART 373822.00 3751416.86
DISCCART 374060.20 3751340.15
RE FINISHED
 ** AERMOD Meteorology Pathway
**
ME STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFFASE 10 METERS
ME FINISHED
**
 ************
 ** AERMOD Output Pathway
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST

** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED
  *******
  *** SETUP Finishes Successfully ***
  10/26/10
  **MODELOPTS: NonDFAULT CONC
                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                      *** MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
          DEPOSITION LOGIC -
  **NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**MOO PARTICLE DEPOSITION DATA PROVIDED:
**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F
  **Model Uses URBAN Dispersion Algorithm for the SBL for $\tt 1 Source(s)\tt,
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
```

```
**Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
**This Run Includes: 1 Source(s); 1 Source Group(s); and 448 Receptor(s)
**The Model Assumes A Pollutant Type of: CO
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                              m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = PPM
**Approximate Storage Requirements of Model = 3.6 \text{ MB} of RAM.
10/26/10
16:48:41
                                                                                                                                                    PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                NODRYDPLT NOWETDPLT
                                                            *** VOLUME SOURCE DATA ***
                                                                BASE RELEASE INIT. INIT. URBAN EMISSION RATE ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
               NUMBER EMISSION RATE
                 NUMBER EMIDSIAN ARIS
PART. (USER UNITS) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
     SOURCE
     ID
                                                                                                                              BY
   10/26/10
16:48:41
                                                                                                                                                    PAGE 3
**MODELOPTS: NonDFAULT CONC
                                                                                FLAT
                                                                                 NODRYDPLT NOWETDPLT
                                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                                      SOURCE IDs
ALL VOL1 ,
*** AERMOD - VERSION 09292 ***
                                          *** Site 15 - CO
                                                                                                                                                    16:48:41
                                                                                                                                                    PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                FLAT
                                                                                NODRYDPLT NOWETDPLT
                                                *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                         *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                  *** X-COORDINATES OF GRID ***
                                                               (METERS)
       372437.2, 372559.0, 372680.7, 372802.4, 372924.1, 373045.8, 373167.6, 373289.3, 373411.0, 373532.7, 373654.4, 373776.2, 373897.9, 374019.6, 374141.3, 374263.0, 374384.8, 374506.5, 374628.2, 374749.9, 374871.6,
                                                   *** Y-COORDINATES OF GRID ***
      3749713.2, 3749824.8, 3749936.4, 3750048.1, 3750159.7, 3750271.3, 3750382.9, 3750494.6, 3750606.2, 3750717.8, 3750829.5, 3750941.1, 3751052.7, 3751164.4, 3751276.0, 3751387.6, 3751499.2, 3751610.9, 3751722.5, 3751834.1,
      3751945.8,
10/26/10
                                                                                                                                                    16:48:41
**MODELOPTs: NonDFAULT CONC
                                                                                FLAT
NODRYDPLT NOWETDPLT
                                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
     ( 372647.2, 3750290.5,
( 373809.9, 3750290.5,
( 373842.2, 3751158.5,
( 374060.2, 3751340.1,
                                                                    0.0);
0.0);
0.0);
0.0);
                                                                                      ( 373224.5, 3750294.5, 10.0, ( 374411.4, 3750290.5, 10.0, ( 373822.0, 3751416.9, 10.0,
                                        10.0,
10.0,
10.0,
                                                     10.0,
10.0,
10.0,
10.0,
                                                                                                                                                      0.0);
                                                                                                                                      10.0,
                                                                                                                                                     0.0);
10/26/10
                                                                                                                                                    16:48:41
PAGE 6
                                                                                                                                      ***
**MODELOPTS: NonDFAULT CONC
                                                                                FLAT
NODRYDPLT NOWETDPLT
                          * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
                            LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL
                                    SOURCE - - RECEPTOR LOCATION - - DISTANCE
ID XR (METERS) YR (METERS) (METERS)
                                     VOI-1
                                                            373532.7
373532.7
                                                                            3750717.8
3750829.5
```

```
*** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                  373654.4 3750829.5
                                                                                                           -12.26
                                                                                                                                                              10/26/10
                                                                                                                                                                16:48:41
 **MODELOPTS: NonDFAULT CONC
                                                                                   FLAT
NODRYDPLT NOWETDPLT
                                                         *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                                     (1=YES; 0=NO)
               NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                             *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
16:48:41
                                                                                                                                                                PAGE
 **MODELOPTS: NonDFAULT CONC
                                                                                       FLAT
                                                                                       NODRYDPLT NOWETDPLT
                                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
   Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SPC
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SPC
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN
Vaer: 2005
                      | 0 | Upper air station no.: 3190 | Name: UNKNOWN | Name: UNKNOWN | Year: 2005 | Year: 2005
-1.7 0.045 -9.000 -9.000 -999.

-0.6 0.028 -9.000 -9.000 -999.

-0.4 0.022 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.
 05 01 01
               1 18
                                                                      11.
                                                                                   3.4 0.26
                                                                                                   1.00
                                                                                                             1.00
                                                                                                                        0.50
                                                                                                                                38.
                                                                                                                                                 285.4
 05 01 01
                                                                                   2.8 0.26
                                                                                                   1.00
                                                                                                             1.00
                                                                                                                        0.40
                                                                                                                               261.
                                                                                                                                                 284.9
05 01 01 1 19
05 01 01 1 20
05 01 01 1 21
05 01 01 1 22
05 01 01 1 23
05 01 01 1 24
                                                                                   2.8 0.26
2.8 0.26
5.5 0.26
5.5 0.26
6.2 0.26
5.5 0.26
                                                                                                   1.00
1.00
1.00
1.00
                                                                                                            1.00
1.00
1.00
1.00
                                                                                                                              337.
12.
360.
46.
                                                                                                                                                 284.9
                                                                                                   1.00
                                                                                                             1.00
                                                                                                                        0.80
                                                                                                                                                 284.2
First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV 05 01 01 01 01 5.5 0 -999. 0 99.00 282.6 99.0 -99.00 -99.00 05 01 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00 -99.00
 10/26/10
                                           ***
 **MODELOPTS: NonDFAULT CONC
                                                                                     FLAT
NODRYDPLT NOWETDPLT
                                                     1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                             INCLUDING SOURCE(S):
                                                                                 VOI-1
                                             *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                  ** CONC OF CO IN PPM
                                                                               X-COORD (METERS)
  Y-COORD
                372437.24 372558.96 372680.68 372802.40 372924.12
  (METERS)
 3750829.5
                        0.02778 (07110908)
                                                        0.02962 (07110908)
                                                                                        0.03174 (07110908)
0.02924 (07110908)
                                                                                                                          0.03422 (07110908)
                                                                                                                                                          0.03714 (07110908)
0.03906 (06070206)
 3750717.8
                        0.02700 (07110908)
                                                        0.02812 (07110908)
                                                                                                                          0.03263 (06070206)
                       0.02700 (07110908)

0.03022 (06070206)

0.02293 (06041307)

0.02676 (07030608)

0.02449 (07030608)

0.02053 (06110508)

0.02948 (06053107)

0.04260 (07070106)
                                                                                      0.02924 (07110908)
0.02951 (06070206)
0.02896 (07030608)
0.02890 (07030608)
0.02756 (06053107)
0.04398 (07070106)
0.05969 (07070106)
0.05157 (07070106)
                                                                                                                         0.03263 (06070206)

0.03232 (07082903)

0.03539 (07030608)

0.02686 (06111722)

0.04355 (07070106)

0.06512 (07070106)

0.05632 (07070106)

0.03854 (06090207)
                                                                                                                                                     0.03906 (06070206)
0.03632 (05101822)
0.03533 (07030608)
0.04168 (07070106)
0.07155 (07070106)
0.06214 (07070106)
0.04009 (06090207)
0.02174 (06090207)
 3750606.2
3750494.6
3750382.9
                                                        0.03070 (06070206)
0.02149 (06041307)
0.03010 (07030608)
0.01932 (07030608)
 3750271.3 |
3750159.7 |
                                                     0.02940 (06053107)
0.04354 (07070106)
0.05507 (07070106)
 3750048.1
3749936.4
```

```
3749824.8 | 0.05111 (07070106) 0.04761 (07070106) 0.03639 (06090207) 3749713.2 | 0.04425 (07070106) 0.03402 (06090207) 0.02660 (06090207) *** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                                                                                                                                                                                                          0.02268 (06090107)
0.02834 (06090107)
                                                                                                                                                                                                                               0.02474 (0005022...
0.01625 (07091007)
***
                                                                                                                                                                                                                                                                                                      10/26/10
                                                                                                                                                                                                                                                                                                        16:48:41
                                                                                                                                                                FLAT
NODRYDPLT NOWETDPLT
                                                                        *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                  INCLUDING SOURCE(S):
                                                                                                                                                   VOI-1
                                                                                  *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                              ** CONC OF CO IN PPM
                             X-COORD (METERS)
373045.84 373167.56 373289.28 373411.00
  Y-COORD
  Y-COORD |
(METERS) |
                                                                                                                                                                                                                                                                                           373532.72
                                                                                                                                                      0.01619 (06090607) 0.01872 (07072704) 0.02170 (06060307) 0.02628 (06090607) 0.02081 (05052102) 0.02296 (06060307) 0.04005 (06090607) 0.02560 (05052102) 0.02437 (06060307) 0.05532 (06090607) 0.02604 (05052102) 0.02437 (06060307) 0.05535 (06090607) 0.02762 (06090607) 0.03415 (05082924) 0.06222 (06090607) 0.04628 (06090607) 0.04199 (05082924) 0.05627 (06042607) 0.07313 (06090607) 0.05300 (07090806) 0.08140 (06090407) 0.08623 (06090607) 0.07101 (0707072704) 0.07103 (06071402) 0.09013 (05082505) 0.10095 (0707072704) 0.08405 (07090907) 0.12539 (06071402) 0.16960 (06070502) 0.09009 (05042101) 0.15528 (07091603) 0.00000 (000000000) 0.0279 (07082903) 0.14250 (06117722)
                                  3751834.1
3751722.5
                                                                                                                                                                0.04005 (06090607)
0.05532 (06090607)
0.06575 (06090607)
0.06622 (06090607)
0.05627 (06042607)
0.07103 (06071402)
0.07103 (06071402)
0.08405 (07090907)
0.09009 (05042101)
                                                                                                     0.04550 (06090607)

0.04550 (06090607)

0.04743 (06042607)

0.05391 (06090407)

0.07125 (06090407)

0.05557 (05010409)

0.08111 (07090907)
3751610.9
                                          0.03423 (06042607)
3751499.2
                                          0.05718 (06090407)
                                                                                                                                                                                                                              0.02762 (06090607)
0.04828 (06090607)
0.07313 (06090607)
0.08623 (06090607)
0.09013 (05082505)
0.12539 (06071402)
0.15528 (07091603)
0.14250 (06111722)
3751387.6
3751276.0
3751164.4
                                           0.05884 (06090407)
                                         0.05884 (06090407)
0.04814 (05010409)
0.06894 (07090907)
0.04817 (07090907)
0.04601 (06100301)
0.04614 (05092201)
0.04821 (07102602)
 3751052.7
3750941.1
                                                                                                      0.05525 (06090102)
 3750829.5
                                                                                                      0.06150 (07081605)
 3750717.8
                                                                                                      0.06916 (07082903)
                                                                                                                                                                                                                                                                                           0.00000 (00000000)
                                          0.04451 (07031304)
0.04054 (05043001)
0.07914 (07070106)
0.06942 (07070106)
                                                                                                      0.05719 (07012320)
0.05719 (07012320)
0.08795 (07070106)
0.07882 (07070106)
                                                                                                                                                                  0.09747 (07070106)
0.09141 (07070106)
0.05403 (07070203)
0.04609 (06041124)
                                                                                                                                                                                                                               0.14230 (06111722)
0.10930 (07070106)
0.08221 (06041124)
0.06203 (06090606)
0.04558 (05042905)
                                                                                                                                                                                                                                                                                           0.13925 (07081701)
0.08924 (07081701)
0.06220 (05083003)
0.04867 (05083003)
 3750606 2
                                                                                                      0.03855 (06090207)
 3750271.3
3750159.7
                                          0.04042 (06090207)
                                                                                                      0.03598 (07070203)
                                                                                                                                                                  0.03958 (07032008)
                                                                                                                                                                                                                                0.03614 (06041123)
                                                                                                                                                                                                                                                                                           0.04128 (06082207)
3749824.8 | 0.03147 (06090107) 0.03374 (05102108) 3749713.2 | 0.02964 (06090107) 0.03374 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02347 (07032008) 3749713.2 | 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (05102108) 0.02911 (0
                                                                                                                                                         0.03174 (06090606)
0.02783 (06061607)
0.02404 (06061607)
0.01952 (06061607)
                                                                                                                                                                                                                               0.03224 (07081701)
                                                                                                                                                                                                                                                                                           0.03808 (06082207)
                                                                                                                                                                                                                                0.02931 (07081701)
                                                                                                                                                                                                                                                                                           0.03546 (06082207
                                                                                                                                                                                                                                                                                           0.03309 (06082207)
0.03094 (06082207)
10/26/10
                                                                                                                                                                                                                                0.02545 (07081701)
                                                                                                                                                                                                                                                                                                       16:48:41
                                                                                                                                                                                                                                                                                                       PAGE 11
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                FLAT
                                                                                                                                                                NODRYDDIA NOWETDDIA
                                                                        *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                                                                    VOL1 ,
                                                                                    *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                            ** CONC OF CO
                                                                                                                                           IN PPM
                            X-COORD (METERS)
373654.44 373776.16 373897.88 374019.60 374141.32
  .-COORD |
                                        3751945.8 I
3751834.1
3751387.6
3751276.0
 3751164.4
375104.4
3751052.7
3750941.1
3750829.5
3750717.8
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0.04217 (07091107)

0.04627 (07091107)

0.04813 (06081607)

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0.07229 (07090807)
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0.05779 (07091107)
 3750606.2
                                          0.13385 (06053105)
0.08155 (05091702)
                                                                                                      0.09849 (05062305)
                                                                                                                                                                  0.07256 (05041521)
0.06333 (06081607)
 3750494.6
                                                                                                      0.12103 (07090807)
 3750382.9
                                          0.05964 (07103023)
                                                                                                      0.07635 (07090807)
                                                                                                                                                                   0.09174 (07090807)
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                                                                                                                                                         0.09174 (07090807)
0.09219 (07090807)
0.05562 (07090807)
0.04394 (05102308)
0.02938 (05102308)
0.02213 (07051822)
0.01793 (05091702)
                                          0.05964 (07103023)
0.04306 (07103023)
0.03168 (05042102)
0.02795 (05042102)
0.02477 (05042102)
                                                                                                      0.07635 (07090807)
0.04651 (05102308)
0.03610 (07051822)
0.03004 (05091702)
0.02505 (07103023)
 3750271.3
3750159.7
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0.07109 (07090807)
0.04305 (07090807)
0.04013 (05102308)
                                                                                                                           (05091702)
(07103023)
 3749824.8
                                          0.02203 (05042102)
                                                                                                       0.02226 (07103023)
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0.03611 (05102308)
0.03074 (05102308)
                                                                                                       0.01892 (07103023)
                                                                                                                                                                                                                                                                                                      10/26/10
                                                                                                                                                                                                                                                                                                       16:48:41
PAGE 12
                                                                                                                                                                FLAT
NODRYDPLT NOWETDPLT
**MODELOPTS: NonDFAULT CONC
                                                                                                 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                  INCLUDING SOURCE(S):
                                                                                                                                                    VOI-1
                                                                                    *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                            ** CONC OF CO IN PPM
                                                                                                                                                   X-COORD (METERS)
  Y-COORD
                                          374263.04 374384.76 374506.48
   (METERS)
                                                                                                                                                                                                                               374628.20 374749.92
                                         0.04386 (05082807) 0.02097 (05082807) 0.01007 (07092823) 0.01259 (06090306) 0.01198 (06102522) 0.03346 (05082807) 0.01148 (07070124) 0.01430 (06090306) 0.01371 (06102522) 0.02279 (07043007) 0.01885 (05082807) 0.01619 (06090306) 0.01588 (06102522) 0.02549 (07043007) 0.04146 (05082707) 0.01818 (06090306) 0.01867 (06102522) 0.0293 (05082707) 0.04942 (05082707) 0.05872 (05082707) 0.02241 (05062902) 0.03628 (05082707) 0.05890 (05082707) 0.06379 (05082707) 0.05991 (05082707)
3751834.1
3751722.5
                                                                                                                                                                0.01588 (06102522)
0.02903 (05082707)
0.05890 (05082707)
0.06674 (05082707)
0.03721 (05082707)
0.03118 (06081407)
0.01952 (05071903)
0.02951 (05091722)
0.02351 (06061524)
0.02320 (05070723)
                                                                                                                                                                                                                                                                                          0.05872 (05082707)

0.05872 (05082707)

0.05091 (05082707)

0.02558 (06081407)

0.02807 (06081407)

0.01918 (06073107)
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3751499.2
 3751387.6
3751276.0
3751164.4
                                          0.04614 (05082707)
0.08118 (05082707)
0.05788 (05082707)
0.05788 (05082707)
0.03477 (06081407)
                                                                                                                                                                                                                               0.04588 (05082707)
0.03160 (06081407)
0.02367 (06073107)
0.01917 (05071903)
 3751052.7
                                                                                                      0.02511 (06073107)
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3750941.1
                                          0.03388 (05071903)
                                                                                                      0.02886 (05091722)
                                                                                                                                                                                                                                                                                           0.01768 (07072605)
                                                                                                                                                                                                                                                                                           0.01682 (06101221)
0.01892 (07092707)
3750829.5
                                          0.03516 (06061524)
0.03677 (07031508)
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                                          0.03677 (07031508)

0.04440 (07031508)

0.03160 (07082904)

0.04551 (07091107)

0.03563 (07091107)

0.04325 (06081607)

0.03533 (06081607)

0.05003 (07090807)
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3750494.6
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 3750382.9
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0.03510 (07091107)
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3750159.7
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0.03299 (07091107)
0.02167 (06081607)
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3750048.1
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0.03409 (06081607)
3749936.4
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3749824.8 | 0.06444 (07090807) 0.03621 (07090807) 0.03270 (06081607) 3749713.2 | 0.06110 (07090807) 0.05321 (07090807) 0.02592 (07090807) *** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                                                                                                         0.03330 (Ububio.,
0.03128 (06081607)
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                                                                                                                                     FLAT
NODRYDPLT NOWETDPLT
                                                             *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                     INCLUDING SOURCE(S):
                                                                                                                           VOT-1
                                                                      *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                               ** CONC OF CO IN PPM
    Y-COORD
                          X-COORD (METERS)
374871.64
    Y-COORD |
(METERS) |
                                    0.02052 (07043007)
0.03488 (05082707)
0.05285 (05082707)
  3751834.1
3751722.5
  3751610.9
                                     0.05268 (05082707)
 3751610.9
3751499.2
3751387.6
3751276.0
3751164.4
3751052.7
3750941.1
                                     0.03235 (05082707)
                                    0.03235 (05082707)
0.02782 (06081407)
0.02128 (06081407)
0.01451 (07031509)
0.01558 (05091722)
0.01587 (07072605)
0.01489 (06101221)
0.01825 (07092707)
  3750829.5
3750717.8
                                    0.02771 (07031508)
0.03539 (07031508)
0.01783 (07031508)
0.01450 (07081201)
   3750606.2
   3750271.3
  3750159.7
                                     0.01396 (07082904)
  3750048.1
                                     0.02720 (07091107)
  16:48:41
                                                                                                                                                                                                                                                     PAGE 14
  **MODELOPTS: NonDEAULT CONC
                                                                                                                                   NODRYDDIAT NOWETDRIAT
                                                             *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372647.17 3750290.48 0.02222 (06110508) 373224.49 3750294.52 0.04223 (07070203)
373809.89 3750290.48 0.05699 (05102308) 374411.43 3750290.48 0.04097 (07091107)
373842.19 3751158.48 0.05709 (05082807) 373822.00 3751416.86 0.04238 (05082807)
374060.20 3751340.15 0.03221 (06090306)

*** ARRMOD - VERSION 09292 *** Site 15 - CO
                                                                                                                                                                                                                                                     10/26/10
                                                                                                                                                                                                                                                    16:48:41
PAGE 15
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                 FLAT
NODRYDPLT NOWETDPLT
                                                              *** THE
                                                                                1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                      INCLUDING SOURCE(S):
                                                                     *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                               ** CONC OF CO
                                                                                                                   IN PPM
                                                                                                                          X-COORD (METERS)
                                     372437.24 372558.96 372680.68
                                                                                                                                                                                         372802.40 372924.12

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        0.00401 (06090408)
        0.00513 (06042608)

        0.00336 (05010416)
        0.00372 (06053008)
        0.00613 (06090408)
        0.00608 (06090408)
        0.00580 (06090408)
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        0.00691 (07090908)
        0.00515 (07090908)
        0.00642 (05010416)
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        0.00781 (07090908)

  3751834.1
  3751722.5
  3751722.5
3751610.9
3751499.2
3751387.6
3751276.0
   3751164.4
   3751052.7
   3750941.1
                                                                                                                                      0.00774 (05122608)
0.00924 (05122608)
0.00827 (07011708)
0.00792 (05083108)
0.00800 (06103008)
0.00875 (06122008)
0.00887 (06110508)
   3750829.5
  3750494.6
  3750382.9
                                     0.00566 (07031308)
                                                                                      0.00669 (06020208)
                                                                                                                                                                                          0.01064 (06122008)
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0.01451 (06053108)
   3750271.3
                                     0.00618 (06122008)
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                                                                                                                                                                                         0.01078
                                                                                                                                                                                                          (06053108)
 3750271.3 0.00618 (06122008) 0.00734 (0 3750159.7 0.00656 (06110508) 0.00737 (0 3750168.1 0.00737 (0 3605108) 0.00854 (0 3749936.4 0.00756 (06053108) 0.00864 (0 37499824.8 0.00734 (07070108) 0.00764 (0 3749713.2 0.00691 (07070108) 0.00764 (0 3749713.2 0.00691 (07070108) 0.00582 (0 *** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                                                      0.00887 (06110508)
0.00963 (06053108)
0.00956 (06053108)
0.00856 (070770108)
0.00633 (07070108)
0.00500 (05122908)
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0.01136 (07070108)
0.00860 (05122908)
0.00704 (07121308)
0.00675 (05112808)
0.00608 (05112808)
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0.00975 (07070108)
0.00695 (05122908)
0.00578 (05122908)
0.00541 (07121308)
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                                                                                      0.00737 (06110508)
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0.00806 (07070108)
0.00764 (07070108)
0.00582 (07070108)
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                                                                                                                                                                                                                                                    PAGE
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                     FLAT
NODRYDPLT NOWETDPLT
                                                             *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                       *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                              ** CONC OF CO IN PPM
                                                                                                                       X-COORD (METERS)
    (METERS)
                                      373045.84 373167.56 373289.28 373411.00 373532.72
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0.00532 (06090408)
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0.00700 (06090608)
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0.00438 (07020524)
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0.00588 (07020524)
3751945.8 |
3751834.1 |
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 3751722.5
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 3751610.9
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0.00840 (06090408)
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0.03453 (06090508)
0.07887 (06090508)
 3751164.4
                                        0.01153 (07090908)
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0.08127 (05122608)
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0.01797 (06060508)

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3750829.5
                                        0.01402 (06060508)
                                       0.01402 (06060508)

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0.01693 (07022008)

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0.00970 (07081508)

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0.00546 (06011008)
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                                                                                                                                                                                                                                                                                          PAGE 17
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                         NODRYDPLT NOWETDPLT
                                                                     *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                                                             VOL1 ,
                                                                               *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                           ** CONC OF CO IN PPM
                            X-COORD (METERS)
373654.44 373776.16 373897.88 374019.60
  Y-COORD |
(METERS) |
                                                                                                                                                                                                                                                                                374141.32

        0.00540 (06082908)
        0.00579 (07083108)
        0.00452 (07083108)
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        0.00603 (05082808)

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        0.0050 (05110224)
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        0.0054 (07070124)

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        0.01086 (05082808)
        0.00852 (05082808)
        0.00660 (06051624)

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        0.01161 (05110224)
        0.01086 (05082808)
        0.00853 (06051624)
        0.0077083108)

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        0.01046 (05082708)

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        0.01450 (05082708)
        0.01409 (05082708)

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        0.01379 (05090224)

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        0.02120 (05090224)
        0.01429 (051212424)

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 3751499.2
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3751276.0
3751164.4
3751052.7
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3750829.5
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0.01236 (06051408)
0.01151 (05012908)
0.00901 (07090808)
0.01159 (07090808)
                                                                                                                                                                                                                                                                              0.01427c(06072908)

0.01104 (07090708)

0.01052 (05070208)

0.00848 (06051408)

0.00803 (05012908)

0.00655 (05012908)

0.00916 (07090808)
 3750606.2
                                       0.05057 (05120308)
0.02868 (05120308)
0.01708 (05120308)
0.01209 (07081424)
0.00976 (07081424)
0.00822 (07081508)
 3750494 6
 3750382.9
3750271.3
3750159.7
 3750048.1
                                                                                                 0.00748 (05120308)
                                                                                                                                                                                                                      0.00976 (07090808)
 3749936.4 0.00712 (07081508)
3749934.8 0.00625 (07081508)
3749713.2 0.00555 (07081508)
*** AERMOD - VERSION 09292 *** ***
                                                                                                                                                 0.00646 (05120308)
0.00532 (05120308)
0.00437 (05120308)
3749936.4
                                                                                                 0.00574 (05120308)
                                                                                                                                                                                                                     0.00634 (05102308)
0.00592 (05102308)
                                                                                                                                                                                                                                                                               0.00970 (07090808)
                                                                                                 0.00471 (07022824)
                                                                                                                                                                                                                                                                               0.00762 (07090808)
3749713.2
                                                                                                  0.00399 (07022824)
                                                                                                                                                                                                                     0.00461 (05102308)
                                                                                                                                                                                                                                                                               0.00524 (05102308)
                                                                                                                                                                                                                                                                                    10/26/10
16:48:41
PAGE 18
                                                                                  *** Site 15 - CO
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                         NODRYDPLT NOWETDPLT
                                                                     *** THE
                                                                                           1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                               INCLUDING SOURCE(S):
                                                                              *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                          ** CONC OF CO
                                                                                                                                    IN PPM
  Y-COORD
                                                                                                                                             X-COORD (METERS)
                                       374263.04 374384.76 374506.48
                                                                                                                                                                                                                     374628.20 374749.92
                               3751834.1
3751722.5
3751722.5
3751610.9
3751499.2
3751387.6
3751276.0
 3751164.4
 3751052.7
 3750941.1
 3750829 5
                                                                                                                                                                                                                                                                              0.00497 (07031508)
0.00322 (07090708)
 3750494.6
3750382.9
                                        0.00729 (05070208)
                                                                                                 0.00651 (05070208)
                                                                                                                                                           0.00530 (05070208)
0.00506 (07091108)
                                                                                                                                                                                                                      0.00410 (05070208)
0.00451 (05070208)
                                                                                                 0.00661 (07091108)
 3750271.3
                                        0.00622 (06051408)
                                                                                                                                                                                                                                                                               0.00378 (05070208)
                                                                                                                                                  0.00506 (07091108)
0.00574 (07091108)
0.00423 (05021408)
0.00515 (06081608)
0.00467 (06081608)
0.00363 (07090808)
                                                                                                                                                                                                                                                                              0.00378 (05070208)
0.00374 (05070208)
0.00501 (07091108)
0.00400 (07091108)
0.00327 (05021408)
0.00431 (06081608)
                                                                                                                                                                                                                    0.00520 (07091108)
0.00483 (07091108)
0.00370 (05021408)
0.00469 (06081608)
0.00439 (06081608)
3750159.7
                                        0.00647 (06081608)
                                                                                                 0.00490 (05021408)
3750159.7 | 0.00647 (06081608) 0.00490 ((3750048.1 | 0.00534 (06081608) 0.00572 ((3749936.4 | 0.00685 (07090808) 0.00590 ((37499324.8 | 0.00858 (07090808) 0.00500 ((3749713.2 | 0.00810 (07090808) 0.00708 ((*** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                 0.00572 (06081608)
0.00498 (06081608)
0.00500 (07090808)
0.00708 (07090808)
                                                                                                                                                                                                                                                                                          10/26/10
                                                                                                                                                                                                                                                                                          16:48:41
                                                                                                                                                                                                                                                                                          PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                        FLAT
NODRYDPLT NOWETDPLT
                                                                     *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                 *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                          ** CONC OF CO
                                                                                                                                                X-COORD (METERS)
  (METERS)
                                          374871.64
```

```
0.00290 (05082708)
0.00513 (05082708)
0.00728 (05082708)
0.00719 (05082708)
0.00464 (05082708)
0.00409 (06081408)
0.00409 (06081408)
0.00454 (05090224)
0.00454 (05090224)
 3751945.8 |
3751834.1 |
 3751722.5
  3751610.9
  3751164.4
 3751052.7
                        0.00417 (05121424)

0.00420 (07120224)

0.00402 (07120224)

0.00404c(06072908)

0.00501 (07031508)

0.00506 (07090708)

0.00305 (05070208)
 3750941.1
3750829.5
 3750829.5
3750717.8
3750606.2
3750494.6
  3750382.9
3750271.3
 3750271.3 | 0.00305 (05070208)
3750159.7 | 0.00335 (05070208)
3750048.1 | 0.00396 (07091108)
3749936.4 | 0.00462 (07091108)
37499824.8 | 0.00329 (07091108)
3749913.2 | 0.00329 (07091108)
*** AERMOD - VERSION 09292 *** Site 15 - CO
                                                                                                                                                                   16:48:41
                                                                                                                                                                   PAGE 20
 **MODELOPTS: NonDFAULT CONC
                                                                                        NODRYDPLT NOWETDPLT
                                        *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                    ** CONC OF CO IN PPM
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372647.17 3750290.48 0.00828 (06110508)
373809.89 3750290.48 0.01315 (05120308)
373842.19 3751158.48 0.01744 (05092224)
374060.20 37511340.15 0.00920 (05071708)

*** AERMOD - VERSION 09292 *** Site 15 - CO

***MODELOPTR: Warpara
                                                                                16:48:41
                                                                                                                                                                   PAGE 21
 **MODELOPTS: NonDEAULT CONC
                                                                                         FLAT
                                                                                         NODRYDDIA NOWETDDIA
                                                               *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
                                                ** CONC OF CO IN PPM
GROUP ID
                                             AVERAGE CONC (YYMMDDHH)
                                                                                   RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
        HIGH 1ST HIGH VALUE IS
                                                0.23004 ON 05062305: AT ( 373654.44, 3750717.83, 10.00, 10.00, 0.00) GC UCART2
 *** RECEPTOR TYPES: GC = GRIDCART
 RECEPTOR TIPES: GC = GRIDLARI
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 15 - CO
                                                                                                                                                                   16:48:41
                                                                                                                                                                   PAGE 22
 **MODELOPTs: NonDFAULT CONC
                                                                                         NODRYDPLT NOWETDPLT
                                                                 *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***
                                                ** CONC OF CO
                                                                           IN PPM
                                                                       NETWORK
YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
                                            AVERAGE CONC (YYMMDDHH)
ALL HIGH 1ST HIGH VALUE IS 0.10030 ON 05012908: AT ( 373654.44, 3750717.83, 10.00, 10.00, 0.00) GC UCART2
 *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 15 - C0
                                                                                                                                                                   10/26/10
                                                                                                                                                                   16:48:41
 **MODELOPTs: NonDFAULT CONC
                                                                                         FLAT
NODRYDPLT NOWETDPLT
 *** Message Summary : AERMOD Model Execution ***
  ----- Summary of Total Messages -----
 A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(-)
 A Total of
A Total of
                         0 Warning Message(s)
152 Informational Message(s)
 A Total of 26280 Hours Were Processed
                 15 Calm Hours Identified
 A Total of
                          137 Missing Hours Identified ( 0.52 Percent)
     ****** FATAL ERROR MESSAGES *******

*** NONE ***
     ****** WARNING MESSAGES ******
                          NONE
     **********
```

```
**

** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 17\NO2.ADI
 **
 ***********
 ** AERMOD Control Pathway

**
**
CO STARTING
TITLEONE Site 17 - NO2
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 ANNUAL
     POLLUTID NOX
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
**
So STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOIL VOLUME 373572.330 3750796.920 0.0

** DESCRSRC Equipment

** Source Parameters **
SRCPARAM VOLL 0.0798 4.100 46.783 1.163
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway
 ** AERMOD Receptor Pathway
RE STARTING
GRIDCART UCART2 STA
                             XYINC 372437.24 21 121.72 3749713.16 21 111.63
XYINC 372437.24 23
GRIDCART UCART2 END
** DESCRREC ***
DISCCART 373224.49 3750294.52
DISCCART 373809.89 3750290.48
DISCCART 373811.43 3750290.48
DISCCART 374811.43 3750290.48
DISCCART 37382.19 3751158.48
DISCCART 37382.20 3751146.86
DISCCART 374060.20 3751340.15
 RE FINISHED
 **

ME STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
ME FINISHED
 *********
 **

ON STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 IST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
PLOTFILE ANNUAL ALL NO2.AD\ANOOGALL.PLT
ON PINALUEDD
OU FINISHED
  ***********
  *** SETUP Finishes Successfully ***
  10/26/10
                                                                                                                                                                                16:53:49
  **MODELOPTs: NonDFAULT CONC
                                                                                                FLAT
NODRYDPLT NOWETDPLT
                                                                           MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
  **NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.
  **Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
  **Model Uses RURAL Dispersion Only.
  **Model Allows User-Specified Options:
             Allows User-Specified Openant
1. Stack-tip Domnwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
```

```
4. Use Missing Data Processing Routine.
           5. No Exponential Decay.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR and Calculates ANNUAL Averages
**This Run Includes: 1 Source(s); 1 Source Group(s); and 448 Receptor(s)
**The Model Assumes A Pollutant Type of: NOX
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
            Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                      m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; R
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor
Output Units = PPM
**Approximate Storage Requirements of Model = 3.6 MB of RAM.
10/26/10
                                                                                                                                                                16:53:49
**MODELOPTs: NonDFAULT CONC
                                                                                      FLAT
NODRYDPLT NOWETDPLT
                                                                  *** VOLUME SOURCE DATA ***

        NUMBER
        EMISSION RATE
        BASE
        RELEASE
        INIT.
        INIT.

        PART.
        (USER UNITS)
        X
        Y
        ELEV.
        HEIGHT
        SY
        SZ

        CATS.
        (METERS)
        (METERS)
        (METERS)
        (METERS)
        (METERS)
        (METERS)
        (METERS)
        (METERS)

                                                                       BASE RELEASE INIT. INIT. URBAN EMISSION RATE ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
      SOURCE
10.0
                                                                                     4.10
                                                                                                46.78
                                                                                                             1.16
                                              *** Site 17 - NO2
                                                                                                                                                               10/26/10
                                                                                                                                                                16:53:49
PAGE 3
**MODELOPTS: NonDFAULT CONC
                                                                                      NODRYDPLT NOWETDPLT
                                                        *** SOURCE IDS DEFINING SOURCE GROUPS ***
GROUP ID
ALL VOL1 ,
*** AERMOD - VERSION 09292 ***
                                             *** Site 17 - NO2
                                                                                                                                                                10/26/10
**MODELOPTS: NonDFAULT CONC
                                                                                      NODRYDPLT NOWETDPLT
                                                   *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                            *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                      *** X-COORDINATES OF GRID ***
                                                                    (METERS)
        372437.2, 372559.0, 372680.7, 372802.4, 372924.1, 373045.8, 373167.6, 373289.3, 373411.0, 373532.7, 373654.4, 373776.2, 373897.9, 374019.6, 374141.3, 374263.0, 374384.8, 374506.5, 374628.2, 374749.9, 374871.6,
                                                       *** Y-COORDINATES OF GRID ***
                                                                    (METERS)
16:53:49
                                                                                                                                                                PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                      FLAT
                                                                                      NODRYDPLT NOWETDPLT
                                                         *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
     ( 372647.2, 3750290.5,
( 373809.9, 3750290.5,
( 373842.2, 3751158.5,
( 374060.2, 3751340.1,
AERMOD - VERSION 09292 ***
                                          10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
*** Site 17 - NO2
                                                                                             ( 373224.5, 3750294.5,
( 374411.4, 3750290.5,
( 373822.0, 3751416.9,
                                                                           0.0);
                                                                                                                                                                  0.0);
                                                                          0.0);
0.0);
0.0);
                                                                                                                                                                16:53:49
                                                                                                                                                                PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                      NODRYDPLT NOWETDPLT
                            * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED * LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL
                                                           - - RECEPTOR LOCATION - - XR (METERS) YR (METERS)
                                        SOURCE
                                                                373532.7
373532.7
373654.4
                                         VOL1
                                                                                  3750829.5
3750829.5
VOL1 3736
*** AERMOD - VERSION 09292 *** *** Site 17 - NO2
                                                                                                            -12.26
                                                                                                                                                                10/26/10
```

PAGE 7 **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE. *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC) 1.54, 3.09, 5.14, 8.23, 10.80, 10/26/10 **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA *** Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE 0 Upper air station no.: 319 N Name: UNKNOWN Surface station no.: 0
Name: UNKNOWN Year: 2005 Year: HT REF TA 282.5 9.1 -2.8 0.002 -9.000 -9.000 -9999.
-3.9 0.067 -9.000 -9.000 -9999.
-4.9 0.067 -9.000 -9.000 -9999.
45.2 0.282 0.524 0.005 115.
114.4 0.293 1.397 0.005 86.
1214.9 0.299 1.673 0.010 1225.
121.0 0.122 0.797 0.010 1225.
128.1 0.223 0.993 0.010 1221.
17.9 0.256 0.847 0.009 1225.
4.2 0.231 0.521 0.009 1225.
0.1 0.180 0.151 0.009 1226.
0.1 0.180 0.151 0.009 1226.
-1.7 0.045 -9.000 -9.000 -999.
-0.4 0.022 -9.000 -9.000 -999.
-1.5 0.045 -9.000 -9.000 -999.
-1.5 0.045 -9.000 -9.000 -999.
-1.5 0.045 -9.000 -9.000 -999. 7.0 0.26 8.8 0.26 44.6 0.26 19.9 0.26 17.3 0.26 10.8 0.26 35.4 0.26 05 01 01 1 07 40. 1.00 1.00 1.20 280.4 05 01 01 05 01 01 05 01 01 05 01 01 05 01 01 05 01 01 0.53 0.30 0.22 0.19 0.18 1.00 1.40 8.8 -44.6 -19.9 -17.3 -10.8 -35.4 0.18 241. 1.00 05 01 01 298. -84.4 0.26 1.00 0.19 2.10 201. 05 01 01 256. -268.6 0.26 1.00 0.22 205. 01 01 176. -5231.4 0.26 1.00 0.31 211 0.57 1.00 1.00 05 01 01 1.00 05 01 01 0.26 1.00 337. 5.5 0.26 5.5 0.26 6.2 0.26 5.5 0.26 05 01 01 1 21 22. 1.00 1.00 0.80 12. 284.9 05 01 01 1 22 22. 1.00 1.00 0.80 284.9 05 01 01 1 23 1 24 26. 22. 1.00 First hour of profile data FIRST NORTH OF PARTIES AND AMB_TMP sigmaA sigmaW sigmaV 05 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00 05 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00 -99.00 16:53:49 PAGE **MODELOPTS: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART *** ** CONC OF NOX IN PPM A-LOURD (METERS)
372680.68 372802.40 372924.12 373045.84 373167.56 373289.28 373411.00 372437.24 372558.96 372680.68 (METERS) 3751945.76 | 0.00009 0.00011 0.00012 0.00015 3751834.13 3751722.50 3751610.87 3751499.24 0.00011 0.00012 0.00014 0.00015 0.00016 0.00012 0.00014 0.00015 0.00017 0.00019 0.00015 0.00017 0.00020 0.00024 0.00029 3751387.61 0.00012 0.00014 0.00016 0.00018 0.00021 0.00026 0.00031 0.00036 3751275.98 0.00014 0.00016 0.00018 0.00021 0.00024 0.00029 0.00037 0.00046 0.00054 3751164.35 0.00016 0.00018 0.00020 0.00024 0.00028 0.00034 0.00044 0.00058 0.00075 0.00018 0.00020 0.00023 0.00025 0.00018 0.00020 0.00023 0.00027 0.00031 0.00044 0.00054 0.00074 0.00106 3750717.83 0.00050 0.00067 0.00098 0.00159 0.00304 3750606.20 0.00029 0.00036 0.00046 0.00062 0.00087 0.00130 0.00207 0.00324 0.00386 3750494.57 0.00034 0.00043 0.00055 0.00074 0.00102 0.00141 0.00185 0.00205 0.00164 3750382.94 0.00039 0.00049 0.00062 0.00080 0.00100 0.00120 0.00128 0.00114 0.00086 3750382.94 3750271.31 3750159.68 3750048.05 0.00039 0.00042 0.00043 0.00041 0.00049 0.00052 0.00050 0.00046 0.00080 0.00074 0.00063 0.00051 0.00085 0.00066 0.00050 0.00037 0.000128 0.00083 0.00055 0.00039 3749936.42 0.00040 0.00041 0.00040 0.00034 0.00029 0.00025 0.00023 3749824.79 0.00033 0.00034 0.00033 0.00031 0.00025 0.00018 *** 0.00023 0.00020 3749713.16 | 0.00028 *** AERMOD - VERSION 09292 *** 0.00028 0.000 *** Site 17 - NO2 0.00027 0.00025 0.00023 0.00021 0.00017 0.00016

10/26/10

```
16:53:49
**MODELOPTS: NonDFAULT CONC
                                                                                               NODRYDPLT NOWETDPLT
                          *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                                       VOL1
                                                 *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                       ** CONC OF NOX
                                                                                      TN DDM
                                                                                           X-COORD (METERS)
                                                                               373897.88 374019.60 374141.32 374263.04
                      373532.72 373654.44 373776.16
                                                                                                                                                              374384.76 374506.48
  3751945.76 L
                                              0.00017
                                                                                                          0.00017
                             0.00017
0.00020
0.00023
0.00029
0.00036
0.00046
                                                0.00017
0.00020
0.00024
0.00029
0.00037
0.00048
                                                                   0.00017
0.00020
0.00024
0.00029
0.00037
0.00048
                                                                                   0.00017
0.00020
0.00024
0.00028
0.00035
0.00044
                                                                                                          0.00017
0.00019
0.00022
0.00026
0.00032
0.00041
                                                                                                                             0.00016
0.00018
0.00021
0.00025
0.00030
0.00038
                                                                                                                                                 0.00015
0.00017
0.00020
0.00023
0.00029
0.00036
  3751945.76
3751834.13
3751722.50
3751610.87
                                                                                                                                                                    0.00014
0.00016
0.00019
0.00022
0.00027
  3751387.61
                                                                                                                                                                    0.00033
                                                                                                                                                                                       0.00029
  3751275.98
                             0.00063
                                                 0.00067
                                                                    0.00064
                                                                                       0.00059
                                                                                                           0.00054
                                                                                                                              0.00050
                                                                                                                                                 0.00044
                                                                                                                                                                    0.00038
                                                                                                                                                                                       0.00032
  3751275.98
3751164.35
3751052.72
3750941.09
3750829.46
3750717.83
3750606.20
                              0.00092
                                                 0.00100
                                                                    0.00093
                                                                                       0.00084
                                                                                                           0.00075
                                                                                                                              0.00063
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  3750494.57
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  3750382.94
                              0.00067
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  3750362.94
3750271.31
3750159.68
3750048.05
                                                 0.00042
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  3749824.79
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 3749713.16 | 0.00015
*** AERMOD - VERSION 09292 ***
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                                                   *** Site 17 - NO2
                                                                                                                                                                              10/26/10
                                                                                                                                                                     10/20/10
16:53:49
PAGE 11
**MODELOPTs: NonDFAULT CONC
                                                                                           FLAT
NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION
                                                                                      VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                 INCLUDING SOURCE(S):
                                                  *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                       ** CONC OF NOX
                                                                                         X-COORD (METERS)
                     374628.20 374749.92 374871.64
  3751834.13 |
3751722.50 |
                             0.00015
0.00017
                                                 0.00014
                                                                    0.00014
                                                 0.00017
                                                                    0.00016
  3751610.87
                             0.00020
                                                 0.00019
  3751499.24
                             0.00023
                                                 0.00021
                                                                    0.00019
                             0.00023
0.00026
0.00027
0.00026
                                                0.00021
0.00022
0.00022
0.00021
  3751164.35
  3751052.72
                             0.00025
                                                 0.00020
                             0.00024
  3750941.09
                                                 0.00020
                                                                    0.00017
  3750829.46
                             0.00022
                                                 0.00019
                                                                    0.00016
  3750717.83
3750606.20
3750494.57
3750382.94
                             0.00020
                                                 0.00017
                                                                    0.00015
                                                 0.00017
0.00015
0.00014
0.00013
  3750271.31
                             0.00013
                                                 0.00012
                                                                    0.00010
  3750159.68
                              0.00012
                                                 0.00011
                                                                    0.00010
  3750048.05
                              0.00011
                                                 0.00010
 3/150048.05 | 0.00011
3749936.42 | 0.00010
3749824.79 | 0.00009
3749713.16 | 0.00008
*** AERMOD - VERSION 09292 ***
                                                 0.00010
                                                 0.00008 0.00008
0.00007 0.00007
*** Site 17 - NO2
                                                                                                                                                                              16:53:49
                                                                                                                                                                              PAGE 12
**MODELOPTS: NonDFAULT CONC
                                                                                               NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                 INCLUDING SOURCE(S):
                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                         ** CONC OF NOX IN PPM
X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

372647.17 3750290.48 0.00060 373224.49 3750294.52 0.00085
373809.89 3750290.48 0.00040 374411.43 3750290.48 0.00017
373642.19 3751158.48 0.00090 373822.00 3751416.86 0.00043
374060.20 3751340.15 0.00045
*** AERMOD - VERSION 09292 *** Site 17 - NO2
***
                                                                                                                                                  0.00043
                                                                                                                                                                              10/26/10
16:53:49
PAGE 13
**MODELOPTS: NonDFAULT CONC
                                                                                              NODRYDPLT NOWETDPLT
                                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                 *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                   IN PPM
                                                       ** CONC OF NOX
                                                                                     X-COORD (METERS)
                          372437.24 372558.96 372680.68 372802.40 372924.12
                         0.02074 (05082506) 0.02200 (05082506) 0.02452 (07091203) 0.02849 (05082505) 0.02638 (07070205) 0.02333 (07090105) 0.02372 (05082506) 0.02270 (05102724) 0.02564 (07022024) 0.02675 (05082505) 0.02701 (06071402) 0.02565 (07090105) 0.02701 (05082506) 0.02634 (07091203) 0.03041 (07022024)
 3751834.1 |
3751722.5 |
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0.02842 (07090105)
0.02845 (06071402)
0.02944 (06110122)
0.03219 (06062903)
0.03294 (06090102)
0.03395 (06120524)
0.03255 (07091603)
0.03467 (05092201)
0.03401 (07042503)
0.03504 (07031304)
0.03203 (07012320)
0.03203 (07012320)
0.03203 (07012320)
0.03203 (06053102)
0.02979 (050511420)
0.02979 (050511420)
0.02979 (05051020)
0.02719 (07061020)
0.02719 (07061010)
0.02566 (05083004)
                                             0.01691 (06110122)
0.02633 (06110122)
0.02709 (06062903)
0.02809 (06090102)
                                                                                                                                     0.02800 (06071402)
0.02294 (06110122)
0.02959 (07062723)
0.02641 (06090102)
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0.03154 (07090105)
0.02804 (06071402)
0.03437 (06110122)
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0.03368 (05082506)
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3751610.9 |
3751499.2 |
 3751387.6
 3751276.0
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0.03763 (07062723)

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0.03884 (05020723)

0.03885 (07072004)

0.03876 (07012823)

0.03878 (07012823)

0.03578 (07012823)

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0.03488 (05041623)

0.03213 (05060655)

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0.02978 (05050324)
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0.02607 (06120524)
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0.02410 (06111920)
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0.03697 (07091603)
0.03703 (05092201)
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0.02472 (06090102)
0.03198 (06100301)
0.03063 (05042101)
 3750829.5
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 3750717.8
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0.03195 (07102602)
0.03149 (05101822)
0.03073 (05083124)
0.02993 (06111722)
0.02816 (05043001)
3750606.2
                                                        0.02910 (07102602)
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0.02815 (05083004)

0.02622 (05050324)
 3750494 6
                                                        0.02870 (05101822)
3750382.9
3750271.3
3750159.7
                                                       0.02870 (05101822)
0.02829 (07031304)
0.02825 (07012320)
0.02608 (06111722)
0.02218 (05043001)
 3750048.1
                                                                                                                                      0.02630 (05011420)
3749936.4 0.02494 (05013001) 0.02688 (0503102) 3749936.4 0.02498 (05013102) 0.02688 (05053102) 3749932.4 0.02537 (07091205) 0.02765 (07081202) 3749913.2 0.02661 (07081202) 0.02661 (06090101) *** AERMOD - VERSION 09292 *** *** Site 17 - NO2 ****
                                                                                                                                                                                                                                                                                                                                                                                  0.02847 (05083004)
0.02978 (05050324)
0.02885 (07070203)
10/26/10
16:53:49
PAGE 14
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                  NODRYDPLT NOWETDPLT
                                                                                                                              1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                             INCLUDING SOURCE(S):
                                                                                                                                                                                                  VOL1 ,
                                                                                                            *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                           ** CONC OF NOX IN PPM
                                                                                                                                                                                               X-COORD (METERS)
373289.28 373411.00 373532.72
   Y-COORD
                                       X-COORD (METERS)
373045.84 373167.56 373289.28
                                         0.02745 (05052222) 0.02870 (06090404) 0.01861 (06070502) 0.02910 (07072704) 0.02623 (05082924) 0.02980 (0610302) 0.03090 (07062501) 0.02624 (06070502) 0.03147 (05052102) 0.02897 (05082924) 0.03110 (07070205) 0.03093 (05052222) 0.03279 (06070502) 0.03161 (05052102) 0.03189 (05082924) 0.03161 (05082505) 0.03444 (06100302) 0.03556 (06090404) 0.03294 (05052102) 0.03486 (05082924) 0.03411 (07091203) 0.03635 (07070205) 0.03764 (07070102) 0.03010 (05052102) 0.03761 (05082924) 0.03588 (05082506) 0.03804 (07022024) 0.03900 (05052222) 0.03610 (06070502) 0.03959 (05082924) 0.03889 (0509105) 0.03781 (05102724) 0.04015 (07070205) 0.03991 (0690404) 0.04033 (0709101) 0.03522 (06110122) 0.04033 (0709105) 0.04017 (07070205) 0.03991 (06909404) 0.04033 (0709105) 0.03900 (05052222) 0.03610 (06070502) 0.03999 (05082924) 0.03582 (06062903) 0.04031 (06101022) 0.03808 (05062903) 0.04031 (06110122) 0.03808 (06062903) 0.04031 (06110122) 0.03853 (07090105) 0.04022 (07020123) 0.04432 (06082305) 0.04016 (06120524) 0.03641 (06090102) 0.04191 (070707706) 0.04815 (07091624) 0.05502 (06082305) 0.04012 (05121223) 0.04084 (07101207) 0.04181 (05020502) 0.05388 (07091224) 0.05000 (00000000) 0.04955 (07031304) 0.03935 (07062701) 0.04136 (05121721) 0.04517 (07091602) 0.05032 (06041223) 0.03945 (07031304) 0.03935 (07062701) 0.04136 (05121721) 0.04517 (07091602) 0.05032 (06041223) 0.03945 (05031420) 0.03935 (05121222) 0.04035 (05121721) 0.04056 (05120502) 0.03940 (05012004) 0.03940 (07072801)
3751834.1
3751722.5
3751722.5 |

3751610.9 |

3751499.2 |

3751387.6 |

3751276.0 |

3751164.4 |
3751164.4
3751052.7
3750941.1
3750829.5
3750717.8
3750606.2
3750494.6
  3750494.6 0.03904 (05043001) 0.03952 (05
3750382.9 0.03892 (05011420) 0.04025 (05
3750371.3 0.03723 (05041623) 0.03797 (05
3750159.7 0.03605 (05083004) 0.03738 (07
3750048.1 0.03211 (05091106) 0.03528 (07
3749936.4 0.03255 (06110719) 0.03249 (07
3749924.8 0.03117 (06041124) 0.03155 (05
3749713.2 0.03038 (07072705) 0.02974 (06
*** ABERMOD - VERSION 09292 *** *** Site 17 - NO2
                                                                                                                                    0.04025 (05121721)

0.04025 (05121721)

0.03797 (05083004)

0.03738 (07041702)

0.03528 (07013021)

0.03249 (07120105)

0.03155 (05062702)

0.02974 (06090204)
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0.04052 (07081306)

0.03972 (07013021)

0.03850 (07120105)

0.03643 (06090204)

0.03372 (05042905)

0.03259 (06041123)

0.02919 (06041123)
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0.03940 (07072801)

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0.03933 (07112120)

0.03767 (06111620)

0.03350 (06111620)

0.03308 (06111620)

0.03064 (06111620)
3750382.9
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3750271.3
3750159.7
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0.03741 (06041123)

0.03613 (07062204)

0.03477 (07092602)

0.03303 (05102823)

0.03083 (05102823)

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3750159.7 |
3750048.1 |
3749936.4 |
3749824.8 |
3749713.2 |
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                                                                                                                                                                                                                                                                                                                                                                                                    PAGE
                                                                                                                                                                                                                 FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                          INCLUDING SOURCE(S):
                                                                                                                                                                                                VOL1
                                                                                                             *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                            ** CONC OF NOX IN PPM
                                    X-COORD (METERS)
373654.44 373776.16 373897.88 374019.60 374141.32
   Y-COORD |
(METERS) |

        0.02892 (07091802)
        0.02623 (07040123)
        0.02636 (07122005)
        0.02769 (05101302)
        0.01984 (07091723)

        0.03151 (07091802)
        0.02498 (07040123)
        0.02655 (07062524)
        0.02988 (07091723)
        0.01420 (07070124)

        0.03583 (07091802)
        0.02793 (07122005)
        0.03296 (07062524)
        0.02675 (07091723)
        0.02706 (0770124)

        0.03583 (07091802)
        0.03387 (07122005)
        0.03497 (05101302)
        0.01961 (07070124)
        0.03235 (07070124)

        0.03733 (07040123)
        0.03622 (07122005)
        0.03497 (07091724)
        0.03476 (07070124)
        0.03278 (07070124)

        0.03995 (07040123)
        0.03902 (07062524)
        0.02675 (07070124)
        0.03235 (07070124)
        0.03561 (07062202)

        0.03930 (07040123)
        0.03926 (07070124)
        0.03986 (07070124)
        0.03918 (07062202)
        0.0366 (07062202)

        0.03934 (07122005)
        0.03226 (07070124)
        0.04145 (07092823)
        0.0391 (07062424)
        0.03811 (05051501)

        0.04314 (07070223)
        0.03824 (07092923)
        0.03406 (05051501)
        0.03751 (06083124)
        0.03918 (07062424)

        0.05852 (07061306)
        0.04852 (07062001)
        0.03870 (05053032)
        0.03937 (06061524)
        0.03969 (06061524)

        0.05852 (07061306)

 3751945.6
3751834.1
3751722.5
                                          0.03151 (07091802)
0.03392 (07091802)
0.03583 (07091802)
0.03583 (07091802)
0.03995 (07040123)
0.03995 (07040123)
0.03996 (07040123)
0.03964 (07122005)
0.04314 (07070223)
0.05337 (06060124)
0.0000 (0000000)
0.05852 (07061306)
0.04912 (05042301)
0.03953 (06120606)
0.04163 (07122007)
0.03296 (07122007)
0.03296 (07122007)
 3751610.9
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0.02780 (07092823)
0.03561 (07062202)
0.03561 (07062202)
0.03811 (05051501)
0.03931 (07100322)
0.03780 (05071903)
0.03969 (06061524)
0.03377 (05070723)
0.03962 (07081802)
0.03778 (05082806)
0.03778 (05092403)
0.03690 (05082703)
0.03690 (05082703)
 3751499.2
3751387.6
3751387.6
3751276.0
3751164.4
3751052.7
3750941.1
3750829.5
3750717.8
 3750606.2
 3750494 6
 3750382.9
3750271.3
                                                                                                                                                                                                                      0.04112 (06072803)
0.03967 (07072724)
                                                                                                                                                                                                                                                                                                      0.03934
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0.03607 (07082105)
0.03233 (07051822)
3750159.7
                                                        0.03296 (07122007)
                                                                                                                                      0.03512 (05091702)
                                                                                                                                                                                                                                                                                                      0.03535 (06071722)
                                                                                                                                                                                                                                                                                                                                                                                    0.03312 (07072005)
3750048.1
                                                        0.03166 (05042102)
                                                                                                                                      0.03700 (05091702)
                                                                                                                                                                                                                                                                                                     0.03422 (07072724)
                                                                                                                                                                                                                                                                                                                                                                                    0.03328 (05101301)
                                                                                                                                                                                                                                                                                                   0.03289 (05101902,
0.03131 (06053105)
0.02868 (06053105)
***
 3749936.4
                                                        0.03169 (05042102)
                                                                                                                                      0.03368 (07103023)
                                                                                                                                                                                                                                                                                                                                                                                    0.03031 (07072724)
                                                                                                                                                                                                                                                                                                                                                                                  0.03031 (07072724)
0.03080 (07081203)
0.02817 (05101902)
10/26/10
16:53:49
PAGE 16
3749924.8 | 0.03101 (05042102) 0.03260 (07103023) 3749924.8 | 0.03101 (05042102) 0.03260 (07103023) 3749713.2 | 0.02989 (05042102) 0.02914 (07103023) *** AERMOD - VERSION 09292 *** *** Site 17 - NO2 ***
                                                                                                                                                                                                          0.03005 (07051822)
0.02778 (05091702)
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                  NODRYDPLT NOWETDPLT
                                                                                               *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol1 \, ,
                                                                                                              *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                      IN PPM
                                                                                                                          ** CONC OF NOX
                                                           X-COORD (METERS)
374263.04 374384.76 374506.48 374628.20 374749.92
   (METERS)
                                                      0.02051 (07070124) 0.02449 (07070124) 0.01720 (07092823) 0.02293 (06090306) 0.02242 (06102522) 0.02826 (07070124) 0.01667 (07070124) 0.02466 (06090306) 0.02450 (06102522) 0.02136 (07062424) 0.02468 (07070124) 0.02592 (06090306) 0.02677 (06102522) 0.02376 (07062424) 0.02661 (07062424)
3751834.1 |
3751722.5 |
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0.02718 (07062424)
0.02875 (05051501)
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0.03224 (07112919)
0.02621 (05071903)
0.03181 (06061524)
0.03236 (05070723)
0.01579 (07081124)
0.03236 (05070723)
0.03157 (07082904)
0.03135 (05041521)
0.02977 (05090403)
0.03039 (07062901)
0.02761 (05082703)
0.02918 (05062305)
0.02744 (07092704)
                                                                                                                                                                                                                            0.02729 (07062424)
0.02787 (05051501)
0.02496 (06083124)
0.02914 (07072804)
0.02782 (07112919)
0.02890 (05071903)
0.03114 (0609106)
                                           0.02748 (07092823)
0.03262 (05062902)
0.03127 (07062424)
0.03563 (05051501)
                                                                                                      0.02957 (05062902)
0.02894 (07062424)
0.02992 (05051501)
0.02639 (05051501)
                                                                                                                                                                                                                                                                                       0.02505 (05051501)
0.01927 (05051501)
0.02656 (06083124)
  3751610.9 |
3751499.2 |
   3751387.6
                                                                                                                                                                                                                                                                                       0.02656 (06083124)
0.02645 (07112919)
0.01945 (07112919)
0.02853 (05071903)
0.02819 (07072605)
0.02630 (06101221)
   3751276.0
                                           0.03563 (05051501)
0.03628 (06083124)
0.03752 (07112919)
0.03833 (05071903)
0.03767 (06061524)
0.03473 (05070723)
                                                                                                      0.03439 (07072804)
0.02824 (07112919)
0.03629 (05091722)
0.03468 (06061524)
   3750829.5
                                                                                                                                                                                                                             0.02830 (06101221)
                                                                                                                                                                                                                                                                                       0.02630 (06101221)

0.02793 (05070723)

0.01413 (05070723)

0.01962 (05012719)

0.02821 (07081802)

0.02667 (05041521)

0.02304 (05041521)
                                                                                                                                                                                                                             0.03023 (05070723)
   3750717.8
                                                                                                      0.03402 (05070723)
                                           0.03473 (05070723)
0.03415 (05012719)
0.03648 (07082904)
0.03610 (05082806)
0.03192 (05090403)
0.03371 (05082703)
0.03073 (05062305)
                                                                                                      0.03402 (05070723)
0.02362 (05012719)
0.03416 (07081802)
0.03191 (07082904)
0.03066 (07073003)
0.03139 (07062901)
   3750606.2
                                                                                                                                                                                                                             0.01381 (07020421)
0.02684 (05012719)
   3750494 6
   3750382.9
3750271.3
3750159.7
                                                                                                                                                                                                                            0.02684 (05012719)
0.02961 (07081201)
0.02788 (07082904)
0.02898 (05041521)
0.02695 (05090403)
   3750048.1
                                                                                                      0.03053 (05082703)
  3749936.4 | 0.03091 (07081702) 0.03039 (05062305) 3749936.4 | 0.02659 (06071722) 0.02973 (07092704) 3749913.2 | 0.02747 (07081203) 0.02758 (07081702) *** AERMOD - VERSION 09292 *** *** Site 17 - NO2 ****
                                                                                                                                                                                                                             0.02871 (07062901)
0.02502 (05082703)
                                                                                                                                                                                                                                                                                        0.02346 (05090403)
                                                                                                                                                                                                                                                                                        0.02671 (07062901)
0.02274 (05082703)
                                                                                                                                                                                                                             0.02302 (05062305)
                                                                                                                                                                                                                                                                                             10/26/10
16:53:49
PAGE 17
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                   INCLUDING SOURCE(S):
                                                                                                                                                   VOL1 ,
                                                                                   *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                             ** CONC OF NOX
                                                                                                                                           IN PPM
    Y-COORD
                                                                                                                                                     X-COORD (METERS)
  3751945.8 |
                                           0.01918 (07062424)
   3751834.1
3751722.5
                                            0.02546 (07062424)
0.02144 (05051501)
                                          0.02144 (05051501)

0.02108 (05051501)

0.02274 (06083124)

0.02471 (07072804)

0.02514 (07112919)

0.01705 (05071903)

0.02674 (07072605)

0.02445 (06101221)

0.02736 (06112321)

0.01527 (05070723)

0.01300 (05012719)

0.02505 (07081802)

0.02505 (07081802)
 3751722.5
3751610.9
3751499.2
3751387.6
3751276.0
3751164.4
   3751052.7
3750941.1
   3750941.1
3750829.5
3750717.8
3750606.2
3750494.6
   3750382.9
                                            0.02505 (07081802)
   3750382.9 | 0.02505 (07081802)
3750271.3 | 0.02533 (07081201)
3750159.7 | 0.02416 (07082904)
3750048.1 | 0.02729 (05041521)
3749936.4 | 0.02142 (05090403)
3749824.8 | 0.02146 (07062901)
3749713.2 | 0.02462 (07062901)
*** AERMOD - VERSION 09292 *** *** Site 17 - NO2
 3750382.9
3750271.3
3750159.7
3750048.1
3749936.4
3749824.8
3749713.2
                                                                                                                                                                                                                                                                                                   10/26/10
                                                                                                                                                                                                                                                                                                    16:53:49
                                                                                                                                                                                                                                                                                                   PAGE
  **MODELOPTs: NonDFAULT CONC
                                                                         *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                 INCLUDING SOURCE(S): VOL1
                                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                              ** CONC OF NOX IN PPM
 X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372647.17 3750290.48 0.03146 (06111722) 373224.49 3750294.52 0.03890 (05091106)
373809.89 3750290.48 0.03972 (07082105) 374411.43 3750290.48 0.03237 (05082806)
373842.19 3751158.48 0.03706 (07070124) 373822.00 3751416.86 0.03898 (05101302)
374060.20 3751340.15 0.03724 (07062202)

*** ARRMOD - VERSION 09292 *** Site 17 - NO2
                                                                                                                                                                                                                                                                                                   16:53:49
                                                                                                                                                                                                                                                                                                   PAGE 19
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                            FLAT
                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                      *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER \,\, 3 YEARS ***
                                                                                       ** CONC OF NOX IN PPM
                                                                         AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
                                                                                     0.00670 AT ( 373411.00, 3750717.83, 0.00392 AT ( 373654.44, 3750941.09, 0.00386 AT ( 373411.00, 3750606.20, 0.0366 AT ( 373411.00, 3750629.46, 0.00324 AT ( 373289.28, 3750606.20, 0.00312 AT ( 373776.16, 3750829.46, 0.00304 AT ( 373289.28, 3750717.83, 0.00295 AT ( 373776.16, 3750941.09, 0.00273 AT ( 373654.44, 3750717.83,
                   1ST HIGHEST VALUE IS
2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
ALL
                                                                                                                                                                                             10.00.
                                                                                                                                                                                                                     10.00.
                                                                                                                                                                                                                                              0.00)
                                                                                                                                                                                                                                                                        UCART2
                                                                                                                                                                                            10.00,
10.00,
10.00,
10.00,
10.00,
                                                                                                                                                                                                                     10.00,
10.00,
10.00,
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0.00)
0.00)
0.00)
0.00)
                                                                                                                                                                                                                                                              GC
GC
GC
GC
GC
                                                                                                                                                                                                                                                                        UCART2
                                                                                                                                                                                                                     10.00,
                                                                                                                                                                                            10.00,
                                                                                                                                                                                                                     10.00,
                                                                                                                                                                                                                                              0.00)
                                                                                                                                                                                                                                                                        UCART2
                   9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS
                                                                                                                                                                                            10.00.
                                                                                                                                                                                                                                              0.00)
                                                                                                                                                                                                                                                                        UCART2
 ABCEFIOR 11FED: GC = GRIDLARI
GP = GRIDPOLR
DC = DISCOART
DP = DISCOART
*** AERMOD - VERSION 09292 *** Site 17 - NO2
                                                                                                                                                                                                                                                                                                   10/26/10
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                                                    *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
```

** CONC OF NOX IN PPM **

GROUP ID	DATE AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,	ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL HIGH 1ST HIGH VALUE	IS 0.05852 ON 07061306	: AT (373654.44, 3750717.83,	10.00, 10.00,	0.00) GC UCART2
*** RECEPTOR TYPES: GC = GR:	IDPOLR SCCART SCPOLR		***	10/26/10 16:53:49
**MODELOPTS: NonDFAULT CONC		FLAT NODRYDPLT NOWETDPLT		PAGE 21
*** Message Summary : AERMOD	Model Execution ***			
Summary of Total !	Messages			
A Total of 0 Fata A Total of 0 Warn: A Total of 152 Info	ing Message(s)			
A Total of 26280 Hours	s Were Processed			
A Total of 15 Calm	Hours Identified			
A Total of 137 Miss:	ing Hours Identified (0.52 P	ercent)		
****** FATAL ERROR MESSI *** NONE ***	AGES ******			
****** WARNING MESSAGI *** NONE ***	ZS *******			
*** AERMOD Finishes Succe	ssfully ***			

```
**

** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 17\PM10.ADI
 **
** AERMOD Control Pathway
CO STARTING
TITLEONE Site 17 - PM10
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM10.
RUNORNOT RUN
CO FINISHED
** AERMOD Source Pathway
**

So STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOLI VOLUME 373572.330 3750796.920 0.0

** DESCRSRC Equipment
LOCATION AREAL AREA 373472.833 3750697.423 0.0

** DESCRSRC Equipment

** Source Parameters **
SRCPARAM VOLI 0.0404 4.100 46.783 1.163
SRCPARAM AREAL 0.0000483832 0.000 201.168 201.168 0.000
URBANSRC VOLI
URBANSRC VOLI
URBANSRC AREAL
SRCGROUP ALL
SO FINISHED

**
** AERMOD Receptor Pathway
**
RE STARTING
GRIDCART UCART1 STA
XYINC 371970.44 50 30.00 3756971.30 50 30.00
### WYINC 372437.24 21
GRIDCART UCARTZ END

** DESCRRCC ** **
DISCCART 373244.49 3750290.48
DISCCART 373809.89 3750290.48
DISCCART 373401.14 33 3750290.48
DISCCART 373401.14 33 3750290.48
DISCCART 37382.19 3751158.48
DISCCART 37382.20 3751340.86
DISCCART 37362.20 3751340.86
DISCCART 374060.20 3751340.15
                                    XYINC 372437.24 21 121.72 3749713.16 21 111.63
DISCCART
DISCCART
DISCCART
RE FINISHED
 *********
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
 *************
** ARRMOD Output Pathway
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24HIGALL.PLT
   *** SETUP Finishes Successfully ***
  10/26/10
                                                                                                                                                                                                                     17:09:02
PAGE 1
   **MODELOPTS: NonDFAULT CONC
   *** MODEL SETUP OPTIONS SUMMARY ***
   **Model Is Setup For Calculation of Average CONCentration Values.
  **MO GAS DEPOSITION Data Provided.

**MO PARTICLE DEPOSITION Data Provided.

**MO PARTICLE DEPOSITION DATA Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F
```

```
**Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
**Model Allows User-Specified Options:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
 **Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR
**This Run Includes: 2 Source(s); 1 Source Group(s); and 2948 Receptor(s)
**The Model Assumes A Pollutant Type of: PM10.
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
                         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                   m for Missing Hours
                                                                                                                                                                                b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Angle = 0.0 Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M**3
 **Approximate Storage Requirements of Model =
                                                                                                                                      3.8 MB of RAM.
10/26/10
                                                                                                                                                                                                                                                                                                                                          17:09:02
PAGE 2
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                   FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                        *** VOLUME SOURCE DATA ***
                                                                                                                                                BASE RELEASE INIT. INIT. URBAN EMISSION RATE ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
                                       NOMBER EMISSION RATE BASE RELEASE INTI. INTI.
PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
4.10 46.78 1.16
                                                                                                                                                                                                                                                                                                                                         10/26/10
17:09:02
PAGE 3
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                   FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                      *** AREA SOURCE DATA ***
                                    NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA
                                                                                                                                                                                                                                                               ORIENT. INIT. URBAN EMISSION RATE
OF AREA SZ SOURCE SCALAR VARY
(DEG.) (METERS) BY
                                       PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                                                                                                                                                                           OF AREA
 ID ----
         0.00 201.17 201.17
                                                                                                                                                                                                                                                                                                                                          PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                   FLAT
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                                    *** SOURCE IDS DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                         SOURCE IDs
 ALL VOL1 , AREA1 , *** AERMOD - VERSION 09292 ***
                                                                                               *** Site 17 - PM10
                                                                                                                                                                                                                                                                                                                                           17:09:02
                                                                                                                                                                                                                                                                                                                                          PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                   FLAT
                                                                                                                                                                                   NODRYDPLT NOWETDPLT
                                                                                                             *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                 *** X-COORDINATES OF GRID ***
                                                                                                                                               (METERS)
                371970.4, 372000.4, 372030.4, 372060.4, 372090.4, 372120.4, 372150.4, 372180.4, 372210.4, 372270.4, 372370.4, 372370.4, 372370.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470.4, 372470
                                                                                                                 *** Y-COORDINATES OF GRID ***
(METERS)
             3756971.3, 3757001.3, 3757031.3, 3757061.3, 3757091.3, 3757121.3, 3757151.3, 3757181.3, 3757211.3, 3757241.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757511.3, 3757511.3, 3757511.3, 3757511.3, 3757511.3, 3757611.3, 3757611.3, 3757811.3, 3757811.3, 3757811.3, 3757811.3, 3757811.3, 3757811.3, 3757811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 375811.3, 3758
17:09:02
                                                                                                                                                                                                                                                                                                                                          PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                   FI.AT
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10/26/10

NODRYDPLT NOWETDPLT *** GRIDDED RECEPTOR NETWORK SUMMARY *** *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART *** *** X-COORDINATES OF GRID ***

372437.2, 372559.0, 372680.7, 372802.4, 372924.1, 373045.8, 373167.6, 373289.3, 373411.0, 373532.7, 373654.4, 373776.2, 373897.9, 374019.6, 374141.3, 374263.0, 374384.8, 374506.5, 374628.2, 374749.9, 374871.6,

> *** Y-COORDINATES OF GRID *** (METERS)

(METERS)

**MODELOPTs: NonDFAULT CONC FLAT

NODRYDPLT NOWETDPLT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(372647.2, 3750290.5, (373809.9, 3750290.5,	10.0, 10.0, 10.0, 10.0,	0.0);	(373224.5, 3750294.5, (374411.4, 3750290.5,	10.0,	10.0,	0.0);
(373842.2, 3751158.5,	10.0, 10.0,	0.0);	(373822.0, 3751416.9,	10.0,	10.0,	0.0);
(374060.2, 3751340.1,	10.0, 10.0,	0.0);				
*** AERMOD - VERSION 09292 ***	*** Site 17 - Př	M10			***	10/26/10
	***				***	17:09:02
						PAGE 8
**MODELOPTS: NonDEAULT CONC			FLAT			

NODRYDPLT NOWETDPLT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED * LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

	ID	XR (METERS)	YR (METERS)	(METERS)	
	VOL1	373532.7	3750717.8	-12.13	
	VOL1	373532.7	3750829.5	-49.32	
	VOL1	373654.4	3750829.5	-12.26	
*** AERMOD - VERSION 09:	292 *** *** Site 1	7 - PM10			

FLAT NODRYDPLT NOWETDPLT **MODELOPTS: NonDFAULT CONC

> *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)

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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC)

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1.54, 3.09, 5.14, 8.23, 10.80,
*** AERMOD - VERSION 09292 ***
                              *** Site 17 - PM10
                                                                                                           17:09:02
                                                                                                           PAGE 10
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**MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN
Vas: 2005

Year: 2005 Year:

HT REF TA 281.4 280.9 287.0 286.4 285.9 -0.6 0.028 -9.000 -9.000 -999. -0.4 0.022 -9.000 -9.000 -999. 05 01 01 11. 0.26 1.00

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First hour of profile data

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        -99.00

17:09:02
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**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                      NODRYDDIA NOWETDDIA
                                                                                                      *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol.1 \, , areal \, ,
                                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                     ** CONC OF PM10. IN MICROGRAMS/M**3
   Y-COORD | X-COORD (METERS)
(METERS) | 371970.44 372000.44 372030.44 372060.44 3
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  3757511.3
  3757481.3
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   *** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                                                                                    10/26/10
17:09:02
                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                     NODRYDPLT NOWETDPLT
                                                                                                                                     1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                       INCLUDING SOURCE(S):
                                                                                                                                                                                                                VOL1 , AREA1 ,
                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                    ** CONC OF PM10. IN MICROGRAMS/M**3

X-COORD (METERS)
372000.44 37
                                        371970.44 372000.44 372030.44 372060.44 372090.44
      3757181.3
 3757151.3
  3757121.3
 3757091.3
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                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                     FLAT
NODRYDPLT NOWETDPLT
                                                                                                        *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                 VOL1 , AREA1 ,
                                                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                       ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                      X-COORD (METERS)
    (METERS)
                                                               372120.44 372150.44 372180.44 372210.44 372240.44
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  **MODELOPTS: NonDFAULT CONC
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                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                      ** CONC OF PM10. IN MICROGRAMS/M**3
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(METERS) |
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 **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                         *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                      INCLUDING SOURCE(S):
                                                                                                                                                                                                                     VOL1 , AREA1 ,
                                                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                      ** CONC OF PM10. IN MICROGRAMS/M**3
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                                             X-COORD (METERS)
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PAGE 16
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                                                                                                                        *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
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                                                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                          ** CONC OF PM10. IN MICROGRAMS/M**3
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PAGE 17
  **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                                                       THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                         ** CONC OF PM10. IN MICROGRAMS/M**3
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                                                                   | 1.22168 (06090524) | 1.23373 (06090524) | 1.23972 (06090524) | 1.24010 (06090524) | 1.23413 (06090524) | 1.22666 (06090524) | 1.23667 (06090524) | 1.24665 (06090524) | 1.24783 (06090524) | 1.24571 (06090524) | 1.23205 (06090524) | 1.2452 (06090524) | 1.25587 (06090524) | 1.25587 (06090524) | 1.25587 (06090524) | 1.25587 (06090524) | 1.25587 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25690524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25687 (06090524) | 1.25697 (060905
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  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                     NODRYDPLT NOWETDPLT
                                                                                                                        *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, Vol.1 , AREA1 ,
                                                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                          ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                         X-COORD (METERS)
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     (METERS)
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*** AERMOD - VERSION 09292 *** *** Site 17 - PMI0
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 **MODELOPTS: NonDEAULT CONC
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                                                                                                                                                 *** THE 1ST HIGHEST 24-HR A INCLUDING SOURCE(S):
                                                                                                                                                                                                 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                                                                     VOL1 , AREA1 ,
                                                                                                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                           ** CONC OF PM10. IN MICROGRAMS/M**3
                                                              372570.44 372600.44 372630.44 372660.
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  **MODELOPTS: NonDFAULT CONC
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                                                                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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 **MODELOPTs: NonDFAULT CONC
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 **MODELOPTS: NonDFAULT CONC
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                                                                                                                   *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                         ** CONC OF PM10. IN MICROGRAMS/M**3
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(METERS) |
                                                                 1.58313 (06090524) 1.55475 (06090524) 1.56047 (07072724) 1.55494 (07090824) 1.59716 (06090524) 1.56988 (06090524) 1.56878 (07072724) 1.55496 (07072724) 1.61123 (06090524) 1.5802 (06090524) 1.57647 (07072724) 1.56785 (07072724) 1.62533 (06090524) 1.6015 (06090524) 1.83866 (07072724) 1.56785 (07072724) 1.63932 (06090524) 1.63139 (06090524) 1.58366 (07072724) 1.59380 (07072724) 1.63932 (06090524) 1.63020 (06090524) 1.58999 (07072724) 1.59380 (07072724) 1.65720 (06090524) 1.63020 (06090524) 1.66720 (06090524) 1.66720 (06090524) 1.66720 (06090524) 1.66720 (06090524) 1.66720 (06090524) 1.66723 (06090524) 1.66723 (06090524) 1.67020 (06090524) 1.62783 (07072724) 1.69514 (06090524) 1.67663 (06090524) 1.65783 (07072724) 1.69514 (06090524) 1.67663 (06090524) 1.64562 (06090524) 1.63787 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.66229 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.69209 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (06090524) 1.64704 (07072724) 1.70899 (060905
3757241.3 |
3757211.3 |
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17:09:02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PAGE 23
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                FLAT
                                                                                                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                                                                    *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                        ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                     X-COORD (METERS)
372870.44 372900.44 372930.44 372960.44 372990.44
                                                                                                                                                      1.44894 (07091824)
1.45517 (07091824)
1.46123 (07091824)
1.46710 (07091824)
1.47272 (07091824)
1.47809 (07091824)
1.47809 (07091824)
1.48809 (07091824)
1.48919 (07091824)
1.49718 (07091824)
1.50124 (07091824)
1.50124 (07091824)
1.50497 (07091824)
                                                                  1.41946 (07091824)
1.42247 (07091824)
1.42522 (07091824)
1.42778 (07091824)
1.43012 (07091824)
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1.45563 (07091824)
1.46456 (07091824)
1.47327 (07091824)
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1.48179 (07091824)
1.49837 (07091824)
1.59644 (07091824)
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1.52189 (07091824)
1.5228 (07091824)
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1.55066 (07091824)
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1.55067 (07091824)
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1.44018 (07030724)

1.44813 (07030724)

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1.47881 (07091824)

1.48965 (07091824)
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1.47067 (05082924)
1.47693 (05082924)
 3758411.3
3758381.3
3758351.3
3758321.3
                                                                   1.43012 (07091824)

1.44054 (07090824)

1.45430 (07090824)

1.46795 (07090824)

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  3758291.3
3758261.3
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1.48308 (05082924)
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1.50860 (07030724)
  3758231.3
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  3758111.3
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 3758081.3
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1.66315 (07091824)
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  3757661.3
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 3757631.3
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1.67660 (07091824)
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  3757601.3
                                                                    1.71600 (07090824)
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1.72464 (07090824)

1.73284 (07090824)

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1.70935 (07091824)

1.71554 (07030724)
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1.70209 (07091824)

1.71204 (07091824)

1.72176 (07091824)

1.73131 (07091824)

1.74063 (07091824)

1.74967 (07091824)

1.75833 (07091824)
  3757571.3
3757541.3
3757511.3
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1.67925 (07090824)
1.69533 (07090824)
1.71129 (07090824)
1.72709 (07090824)
  3757481.3
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1.75814 (07090824)
1.77345 (07090824)
  3757451.3
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1.79292 (07090824)
  3757421.3 |
3757391.3 |
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1.77295 (07090824) 1.80362 (07090824) 1.77800 (07090824) 1.81383 (07090824) 1.78246 (07090824) 1.82359 (07090824) 1.78634 (07090824) 1.82392 (07090824) - VERSION 09292 *** Site 17 - PMIO
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1.80319 (07090824)
1.81762 (07090824)
1.83183 (07090824)
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1.74958 (07090824)
1.76765 (07090824)
1.78562 (07090824)
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1.77483 (07091824)
1.78269 (07091824)
1.79025 (07091824)
 3757331.3
 3757301.3
 3757271.3
*** AERMOD
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                               FLAT
NODRYDPLT NOWETDPLT
                                                                                *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                           INCLUDING SOURCE(S):
                                                                                                                                                                  VOL1 , AREA1 ,
                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                          ** CONC OF PM10. IN MICROGRAMS/M**3
                                  X-COORD (METERS)
372870.44 372900.44 372930.44 372960.44 372990.44
   Y-COORD
1.84582 (07090824)
1.85948 (07090824)
1.87263 (07090824)
1.88540 (07090824)
1.89787 (07090824)
1.90999 (07090824)
1.92159 (07090824)
1.93258 (07090824)
1.94308 (07090824)
1.95323 (07090824)
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1.82114 (07090824)

1.83857 (07090824)

1.85585 (07090824)

1.8729 (07090824)

1.88995 (07090824)

1.90556 (07090824)

1.92270 (07090824)

1.92353 (07090824)
3757241.3
3757211.3
3757181.3
3757151.3
3757091.3
3757061.3
                                                                                                              1.84194 (0/090824)

1.85061 (07090824)

1.85858 (07090824)

1.86591 (07090824)

1.872218 (07090824)

1.87921 (07090824)

1.88508 (07090824)
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1.80404 (07091824)

1.81181 (07030724)

1.82141 (07030724)

1.83097 (07030724)

1.84049 (07030724)

1.84998 (07030724)

1.846434 (07090824)
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                                                                                                                1.89469 (07090824)
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1.90408 (07090824)
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                                                                                                                1.89875 (07090824)
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17:09:02
PAGE 25
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                *** THE
                                                                                                          1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                           INCLUDING SOURCE(S):
                                                                                                                                                                 VOL1 , AREA1 ,
                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                        ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                          X-COORD (METERS)
4 373080.44 373110.44
                                                                                                                                                                                                                                                                              4 373140.44
                                             373020.44 373050.44
                                                                                                                                                                               1.37251 (0508.2924)
1.38433 (0508.2924)
1.39613 (0508.2924)
1.40799 (0508.2924)
1.41389 (0508.2924)
1.43186 (0508.2924)
1.44387 (0508.2924)
1.45585 (0508.2924)
1.46781 (0508.2924)
1.49717 (0508.2924)
1.49717 (0508.2924)
1.50366 (0508.2924)
1.51554 (0508.2924)
1.51554 (0508.2924)
1.52738 (0508.2924)
                                                                                                              1.42475 (05082924)

1.43526 (05082924)

1.44566 (05082924)

1.45595 (05082924)

1.46619 (05082924)

1.47640 (05082924)

1.47640 (05082924)

1.49684 (05082924)

1.50707 (05082924)

1.51731 (05082924)

1.52749 (05082924)
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1.33437 (07030724)
1.34427 (07030724)
1.35433 (07030724)
1.35433 (07030724)
1.37482 (07030724)
1.38516 (07030724)
1.39556 (07030724)
1.40604 (07030724)
1.41665 (07030724)
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1.37622 (07050924)

1.38204 (07050924)

1.38750 (07050924)

1.39302 (07050924)

1.39856 (07050924)

1.40411 (07050924)

1.40966 (07050924)
                                              1.45741 (05082924)
1.46604 (05082924)
1.47455 (05082924)
 3758411.3
3758411.3
3758381.3
3758351.3
3758321.3
3758291.3
3758261.3
                                              1.47455 (05082924)
1.48295 (05082924)
1.49127 (05082924)
1.49949 (05082924)
1.50764 (05082924)
1.51574 (05082924)
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1.42073 (07050924)
1.42621 (07050924)
  3758201.3
3758171.3
                                               1.52376 (05082924)
                                                                                                                                                                                                                                                     1.42738 (07030724)
  3758141.3
                                               1.53175 (05082924)
                                                                                                                1.52749 (05082924)
1.53756 (05082924)
1.54754 (05082924)
1.55747 (05082924)
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1.43834 (05082924)
1.45181 (05082924)
1.46535 (05082924)
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1.43707 (07050924)
1.43707 (07050924)
1.44247 (07050924)
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  3758051.3
                                               1.55519 (05082924)
1.56283 (05082924)
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1.53927 (05082924)
  3758021.3
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                                                                                                                                                                                                                                                                                                                                   PAGE 26
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                               *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                        ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                          X-COORD (METERS)
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 **MODELOPTS: NonDEAULT CONC
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                                                                                                                                       *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                          INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                 ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                              X-COORD (METERS)
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17:09:02
PAGE 28
 **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                                                      *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                        INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                 VOL1 , AREA1
                                                                                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                                       X-COORD (METERS)
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    Y-COORD |
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   *** AERMOD - VERSTON 09292 ***
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17:09:02
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                                                                                    1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                        INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                 VOL1 , AREA1 ,
                                                                                                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                            ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                             X-COORD (METERS)
    Y-COORD
                                                                          373320.44 373350.44 373380.44 373410.44
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*** AERMOD - VERSION 09292 *** *** Site 17 - PM10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10/26/10
17:09:02
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 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                                                                              *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREAl ,
                                                                                                                                                                                                                                                                    VOL1 , AREA1
                                                                                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                         X-COORD (METERS)
     Y-COORD |
(METERS) |
                                                    373320.44 373350.44 373380.44 373410.44 373440.44
                                                             2.25119 (07050924) 2.36054 (07050924) 2.45848 (07050924) 2.56290 (06060324) 2.63608 (06060324) 2.26416 (07050924) 2.37475 (07050924) 2.47405 (07050924) 2.56794 (06060324) 2.64312 (06060324) 2.27734 (07050924) 2.38899 (07050924) 2.48976 (07050924) 2.57773 (07050924) 2.56022 (06060324) 2.29069 (07050924) 2.40328 (07050924) 2.50561 (07050924) 2.59475 (07050924) 2.66596 (07050924) 2.30415 (07050924) 2.41766 (07050924) 2.52160 (07050924) 2.61195 (07050924) 2.68408 (07050924) 2.31769 (07050924) 2.43217 (07050924) 2.53773 (07050924) 2.62999 (07050924) 2.72112 (07050924) 2.31769 (07050924) 2.44868 (07050924) 2.55378 (07050924) 2.64677 (07050924) 2.72112 (07050924) 2.331769 (07050924) 2.44868 (07050924) 2.55378 (07050924) 2.64677 (07050924) 2.72112 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 (07050924) 2.7312 
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2.72112 (07050924)
2.74001 (07050924)
2.75913 (07050924)
2.77847 (07050924)
10/26/10
  3757121.3
  3757091.3
   3757061.3
 3757061.3 |
3757031.3 |
3757001.3 |
3756971.3 |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17:09:02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAGE
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                          FLAT
                                                                                                                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                                                                 *** THE 1ST HIGHEST 24-HR AVERAGE CURVENILL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                     1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                      *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                      X-COORD (METERS)
                                                 372437.24 372558.96 372680.68 372802.40 372924.12
     (METERS)
                                                             11.77971 (07071924) 17.37014 (06062824) 18.22985 (06062824) 15.58584 (05082524) 15.36003 (05101024) 10.89807 (06071424) 14.22062 (07071924) 21.04824 (06062824) 18.87671 (06062824) 17.53701 (05101024) 15.56519 (06110124) 14.76368 (07021124) 15.721411 (07071924) 25.11604 (06062824) 20.29144 (05082524) 15.56519 (06110124) 14.76368 (07021124) 15.47740 (06071424) 20.86618 (07071924) 29.27212 (06062824) 18.65387 (07091324) 21.68911 (06110124) 16.99214 (05030524) 18.75933 (06071424) 27.66778 (06062824) 18.65387 (07091324) 22.39500 (07091324) 24.34348 (07091324) 20.17640 (05030524) 23.10539 (06071424) 12.75847 (07091324) 22.39500 (07091324) 24.34348 (07091324) 20.17640 (05030524) 29.97168 (06110124) 21.75847 (07020624) 22.41552 (07020624) 23.99250 (07020624) 31.06272 (07091324) 29.93168 (06110124) 29.99604 (07030624) 25.16874 (07020624) 30.58298 (07020624) 31.06272 (07091324) 33.95385 (06110124) 27.7837 (05122624) 27.7277 (05122624) 30.74173 (05122624) 37.18767 (07020624) 44.38236 (07030624) 27.27837 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (05122624) 37.4737 (051022624) 37.4737 (051022624) 37.4737 (051022624) 37.4737 (051022624) 37.4737 (051022624) 37.4737 (051022
  3751945.8 I
   3751499.2
   3751387.6
  3751276.0
 3751276.0
3751164.4
3751052.7
3750941.1
3750829.5
3750717.8
   3750606.2
3750606.2 35.52581m(05012424) 43.76214m(05012424) 3750494.6 36.4092 (06012524) 42.88575 (06012524) 3750382.9 31.55857c(06111824) 37.58167 (06020124) 3750159.7 31.80030 (06111624) 39.13931 (06111624) 3750159.7 31.80030 (06111624) 39.13931 (06111624) 3750048.1 31.53674 (07123024) 36.02688 (05111224) 3749936.4 31.86496 (05111224) 35.77445 (05111224) 3749913.2 25.52237 (05100924) 28.40712 (05100924) *** AERMOD - VERSION 09292 *** *** Site 17 - PM10
                                                                                                                                                                                                                                                                                                                                                                                                    32.54804 (05122924) 36.7768 (06030424) 25.28015 (05122924) 22.71067 (05112824) ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10/26/10
17:09:02
PAGE 32
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                          1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                  INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                      VOL1 , AREA1
                                                                                                                                                                   ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                    X-COORD (METERS)
     Y-COORD
                                                                             373045.84 373167.56 373289.28 373411.00 373532.72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27.82129 (07050924)
31.09607 (07050924)
35.03726 (07050924)
39.86225 (07050924)
                                                                     19.33849 (06090524) 22.89510 (06090524) 19.35728 (06091124) 18.48154 (06091124) 15.80562 (06090524) 26.80379 (06090524) 22.48777 (06090524) 22.48856 (06091124) 19.33363 (05101024) 27.93124 (06090524) 29.28334 (06090524) 27.14402 (06091124) 22.18770 (05082524) 25.25205 (06090524) 39.1583 (06090524) 32.53118 (06091124)
 3751834.1 |
3751722.5 |
3751610.9 |
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3751499.2 32.93743 (06062824) 25.31129 (05101024)
3751387.6 37.70752 (06062824) 36.62330 (05082524)
3751276.0 29.14348 (06071424) 51.12969 (06062824)
3751164.4 43.28658 (06110124) 41.16458m(05010924)
3751052.7 46.97940 (07020624) 56.74266 (06110124)
3750941.1 56.86423 (07020624) 84.11705 (07020624)
3750747.8 103.47739m(05012424) 115.97236 (05120624)
3750717.8 103.47739m(05012424) 141.79826m(05012424)
3750606.2 97.72593 (060102544) 139.54228 (05120624)
3750717.8 29.56580 (05110524) 139.54228 (05110524)
375082.9 85.68580 (05110524) 103.48226 (05100924)
375013.3 75.03056 (05100924) 45.66572 (05110524)
375019.7 60.69705 (05122924) 45.66572 (05110524)
375019.7 141.79826m (05012424)
375019.1 43.38143 (05122924) 45.66572 (05112824)
375019.1 43.38143 (05122924) 45.66572 (05112824)
3749936.4 31.28485 (05110824) 36.57489 (06120424)
3749713.2 25.95997 (06120424) 24.82444 (05020424)
3749713.2 25.95997 (06120424) 24.82444 (05020424)
*** AERMOD - VERSION 09292 *** Site 17 - PM10
                                                                                                                                                                                                                                                                                                                                                                                      43.91246 (06090524)
60.66365 (06090524)
78.83850 (06090524)
94.49095 (06090524)
109.20483 (06062824)
188.15836 (05021824)
377.90328 (07112524)
404.49584 (07010324)
292.83055 (05120824)
145.62812 (06121824)
70.09926 (05020424)
40.61033 (06112824)
33.96984 (05102624)
33.96984 (05102624)
30.18972 (07081524)
                                                                                                                                                                                                                                                                                 42.47282 (06090524)
43.56866 (06090524)
39.13107 (06092824)
68.99238 (06062824)
67.80756m(05010924)
111.16548 (07020624)
163.93262 (06010124)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               45.91316 (07050924)
53.76332 (07050924)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 53.76332 (07030924)
| 64.48300 (07050924)
| 98.92266 (06090524)
| 179.56450 (06090524)
| 1426.46483 (06121424)
| 1426.46483 (06121424)
| 1350.69219 (07081524)
| 130.69219 (07081524)
| 137.1634 (07081524)
| 137.41098 (07081524)
| 137.91634 (07081524)
| 137.91634 (07081524)
| 145.679 (07081524)
| 68.51385 (07081524)
| 68.51385 (07081524)
| 68.51385 (07081524)
| 68.50510 (07081524)
| 68.50510 (07081524)
| 68.50510 (07081524)
| 68.50510 (07081524)
                                                                                                                                                                                                                                                                         163.93262 (06010124)
214.8662m(05012424)
201.75244 (05121124)
155.06924 (05120824)
96.9456 (05122924)
69.38160 (06120424)
55.41932 (06120424)
41.35783 (05020424)
37.80752 (05020424)
32.19262 (05020424)
26.35401 (05020424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10/26/10
17:09:02
PAGE 33
    **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                    FLAT
NODRYDPLT NOWETDPLT
                                                                                                                              *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , AREAl ,
                                                                                                                                               *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                    ** CONC OF PM10. IN MICROGRAMS/M**3
      Y-COORD | X-COORD (METERS)
(METERS) | 373654.44 373776.16 373897.88 374019.60 374141.32
 375149.8 | 23.32937 (07083124) | 27.51462 (07083124) | 24.02757 (07083124) | 22.28921 (05052624) | 22.59522 (07071524) | 3751841.1 | 27.86151 (07083124) | 32.20335 (07083124) | 32.517669 (07083124) | 23.31791 (05052624) | 30.73047 (07071524) | 3751722.5 | 34.04647 (07083124) | 37.54839 (07083124) | 30.02423 (05052624) | 29.07522 (07071524) | 33.37739 (07071524) | 3751610.9 | 42.69955 (07083124) | 43.41605 (07083124) | 35.43085 (05052624) | 41.26943 (07071524) | 27.05289 (07071524) | 3751499.2 | 54.95442 (07083124) | 49.36149 (07083124) | 39.41329 (07071524) | 44.35718 (07071524) | 27.05289 (07071524) | 3751876.6 | 72.38956 (07083124) | 54.05148 (07083124) | 59.24286 (07071524) | 37.73769 (07031824) | 42.44710 (07092824) | 3751276.0 | 97.34214 (07083124) | 69.22635 (05052624) | 64.80424 (07071524) | 57.74665 (07092824) | 68.20689 (06101024) | 3751052.7 | 195.60606 (07083124) | 97.62723 (07071524) | 83.92982 (07092824) | 105.45956 (06101024) | 104.61732 (06101024) | 375092.7 | 195.60606 (07083124) | 32.51861 (07031824) | 177.18093 (06101024) | 115.55157 (06101024) | 80.50802 (06052024) | 375092.7 | 195.60606 (07083124) | 32.7.04490 (06101024) | 168.56519 (06052024) | 115.66702 (05081824) | 86.11254 (05081824) | 375092.7 | 138.34366 (0711124) | 23.81836 (05102324) | 152.36327 (05102324) | 39.52178 (05102324) | 60.83999 (051023234) | 3750717.8 | 1202.58412 (07013024) | 247.16575 (06051244) | 135.35006 (0600724) | 35.8977 (06060724) | 56.6686 (0660724) | 3750946.6 | 158.67060 (07081524) | 15.5493 (05012924) | 59.69192 (05012924) | 51.61671 (06051424) | 41.77681 (05070224) | 3750494.6 | 158.67060 (07081524) | 70.16470 (05061324) | 59.69192 (05012924) | 51.61671 (06051424) | 41.77681 (05070224) | 3750243 | 90.194545 (07081524) | 58.9086 (05120324) | 33.99981 (070021324) | 38.52522 (05012924) | 39.29132 (05051224) | 3750271.3 | 92.194545 (07081524) | 58.9086 (05120324) | 33.99981 (070021324) | 38.52522 (05012924) | 39.29132 (05051224) | 39.29932 (05051224) | 30.500324) | 39.29132 (05051224) | 39.29932 (05012224) | 39.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               39.24132 (06051424)
28.69476 (05082324)
24.48150 (07092724)
20.88742 (06071724)
23.27638 (07090824)
15.65789 (07090824)
14.34227 (05081524)
10/26/10
17:09:02
PAGE 34
           39.69037 (05040924)
33.99861 (07021324)
30.13123 (05120324)
26.88230 (05120324)
22.10295 (05120324)
17.92003 (05091724)
18.06732 (05091724)
                                                                                                                                                                                                                                                                                                                                                                                        29.97933 (U/U/L)
24.82442 (07090824)
21.95159 (07021324)
19.70368 (05081524)
19.19639 (05081524)
15.49381 (06072824)
***
    3750271.3
     3750159.7
     3750048 1
   3749936.4
3749824.8
3749713.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAGE
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                    FLAT
                                                                                                                                                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                                                                               *** THE 1ST HIGHEST 24-HR AVERAGE CURVENILL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                    1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                    *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                 ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                X-COORD (METERS)
      (METERS) 374263.04 374384.76 374506.48 374628.20 374749.92
                                                      26.26411 (07071524) 13.98366 (07071524) 14.88375 (07092824) 17.59153 (07092824) 13.88891 (06081224) 22.77207 (07071524) 15.80588 (07031824) 20.34412 (07092824) 16.50547 (07092824) 18.02367 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.72543 (06101024) 27.725
    3751945.8 I
     3751499.2
     3751387.6
    3751276.0
   3751276.0
3751164.4
3751052.7
3750941.1
3750829.5
3750717.8
3750606.2
     3750494.6
      3750382.9
                                                                                                                                                                                                                                                                                                                                                                                          20.13133 (07110724)
19.87614 (05070224)
15.66019 (05070224)
18.86177 (06051424)
17.20513 (05082324)
12.41561 (07013024)
  | 19.42912 (07092724) | 17.88811 (05082324) | 20.12503 (05082324) | 3749936.4 | 16.87143 (07092724) | 15.07746 (07092724) | 14.68325 (05082324) | 3749924.8 | 21.54993 (07090824) | 16.14786 (07092724) | 11.78637 (05012924) | 3749713.2 | 20.34910 (07090824) | 16.48893 (07090824) | 14.64018 (07092724) | *** AERMOD - VERSION 09292 *** Site 17 - PM10 | ***
                                                                                                                                                                                                                                                                                                                                                                                          10/26/10
17:09:02
PAGE 35
    **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                   FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                        1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                                                    , AREA1
                                                                                                                                                INCLUDING SOURCE(S):
                                                                                                                                                                 ** CONC OF PM10. IN MICROGRAMS/M**3
       Y-COORD
                                                                                                                                                                                                                                                                   X-COORD (METERS)
                                                                             374871.64
                                                                     15.04313 (06101024)
23.01778 (06101024)
27.81483 (06101024)
31.24255 (06101024)
    3751834.1
    3751722.5 |
3751610.9 |
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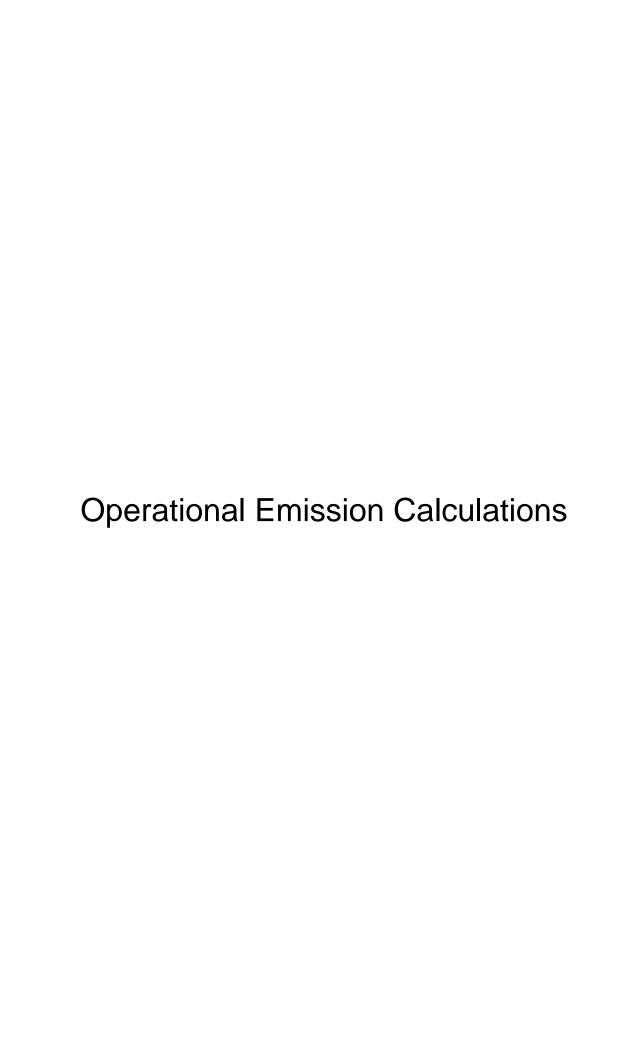
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3751499.2 29.2214 (06101024)
3751387.6 23.63409 (06052024)
3751276.0 27.77153 (05090224)
375164.4 31.37691 (05081824)
3751052.7 23.5798 (06050424)
375092.5 12.22992 (07051524)
3750717.8 21.75967 (07051524)
3750717.8 21.75967 (07051524)
3750717.8 21.75967 (07051524)
3750717.8 121.75967 (07051524)
375082.9 19.34703 (07110724)
375082.9 19.34703 (07110724)
3750189.7 14.98694 (05070224)
3750199.7 14.98694 (05070224)
3750198.1 13.00537 (05070224)
3749924.8 12.98876 (06051424)
3749713.2 12.83639 (05082324)
*** AERMOD - VERSION 09292 *** Site 17 - PM10
                                                                                                                                                                        17:09:02
PAGE 36
 **MODELOPTs: NonDFAULT CONC
                                                                                           NODRYDPLT NOWETDPLT
                                         *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                      ** CONC OF PM10. IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M)

372647.17 3750290.48
373809.89 3750290.48
373842.19 3751158.48
374060.20 3751340.15

*** AERMOD - VERSION 09292 ***
                                           42.02997 (06122024)
45.80730 (05120324)
82.87054 (07071524)
48.95406 (07092824)
*** Site 17 - PM10
                                                                                                  X-COORD (M) Y-COORD (M)
                                                                                                                                                           (YYMMDDHH)
                                                                                                                                                CONC
                                                                                  373224.49 3750294.52 75.44784 (05122924)
374411.43 3750290.48 21.78963 (05070224)
373822.00 3751416.86 50.55881 (05052624)
                                                                                                                                                  *** 10/26/10
*** 17:09:02
                                                                                                                                                                       17:09:02
PAGE 37
 **MODELOPTS: NonDFAULT CONC
                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                   *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
                                                  ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                                     RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
                                              AVERAGE CONC
                                                                   (YYMMDDHH)
HIGH 1ST HIGH VALUE IS 1445.17317 ON 05120824: AT ( 373532.72, 3750717.83, 10.00, 10.00, 0.00) GC UCART2
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 17 - PM10
***
                                                                                                                                                                       10/26/10
 **MODELOPTS: NonDFAULT CONC
                                                                                           NODRYDPLT NOWETDPLT
 *** Message Summary : AERMOD Model Execution ***
  ----- Summary of Total Messages -----
 A Total of
                                0 Warning Message(s)
A Total of
                         152 Informational Message(s)
 A Total of 26280 Hours Were Processed
 A Total of 15 Calm Hours Identified
A Total of
                         137 Missing Hours Identified ( 0.52 Percent)
    ******* FATAL ERROR MESSAGES *******

*** NONE ***
    ****** WARNING MESSAGES *******

*** NONE ***
     ************
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Operational Emissions

	Crensha	w Vehicle Miles Tr	aveled (VMT) Summary ¹	
Scenario	Auto Regional VMT	Bus VMT	LRT VMT	Total Miles Traveled
NB	454,428,833	686,607	0	455,115,440
TSM	454,401,060	689,533	0	455,090,593
BRT	454,303,504	690,107	0	454,993,611
LRT	454.402.069	686.662	3.632	455.092.363

	Cre	nshaw VMT Alteri	native Comparison	
Scenario	Auto Regional VMT	Bus VMT	LRT VMT	Total VMT
NB v. TSM	-27,773	2,926	0	-24,847
NB v. BRT	-125,329	3,500	0	-121,829
NB v. LRT	-26.764	54	3,632	-23.078

			Automobile Emi	ssion Factors (grams/mile)		
Vehcile	voc	СО	NO _x	so _x	PM _{2.5}	PM ₁₀
Auto ²	0.031	0.949	0.073	0.005	0.010	0.015
Bus ³	0.820	8.20	4.92	-	0.040	0.041

	Light Rail Transit Emission Factors (pounds/megawatt-hour)										
Vehcile	VOC	co	NO _x	SO _x	PM _{2.5}	PM ₁₀					
Light Rail	0.010	0.200	1.150	0.120	0.040	0.040					

			Regional Operation	onal Emissions (pounds/day)		
Scenario	VOC	co	NO _x	SO _X	PM _{2.5}	PM ₁₀
NB v. TSM-BRT	3	-5	27	-0.3	-0.4	-0.7
NB v. BRT	-2	-199	18	-1.2	-2.5	-3.9
NB v. LRT ⁴	-1	-43	67	7.1	1.9	1.6

			Regional Opera	tional Emissions (tons/yr)		
Scenario	VOC	СО	NO _x	so _x	PM _{2.5}	PM ₁₀
NB v. TSM-BRT	0.6	-1	5	-0.1	-0.1	-0.1
NB v. BRT	-0.4	-36	3	-0.2	-0.4	-0.7
NB v. LRT	-0.3	-8	12	1.3	0.3	0.3

Vehicle miles traveled obtained from traffic analysis. Does not include Metrolink miles.
 Auto emission factors obtained from EMFAC2007.
 CNG emission factors obtained from CARB.
 Assumes 17 kilowatt-hours per train mile.

Greenhouse Gas Emissions

Crenshaw Vehicle Miles Traveled (VMT) Summary ¹											
Scenario	Auto Regional VMT	Bus VMT	LRT VMT	Total Miles Traveled							
NB	454,428,833	686,607	0	455,115,440							
TSM	454,401,060	689,533	0	455,090,593							
BRT	454,303,504	690,107	0	454,993,611							
LRT	454,402,069	686,662	3,632	455,092,363							

Crenshaw VMT Alternative Comparison							
Scenario	Auto Regional VMT	Bus VMT	LRT VMT	Total VMT			
NB v. TSM	-27,773	2,926	0	-24,847			
NB v. BRT	-125,329	3,500	0	-121,829			
NB v. LRT	-26,764	54	3,632	-23,078			

Emission Factors (grams/mile)			Emission Factors (pounds/kilowatt-hour)		
Auto ²		Bus ³	Light Rail⁴		
CO ₂	CH₄	CO ₂ eq.	CO ₂	CH₄	N ₂ O
548.358	0.013	3,275	0.805	0.000067	0.000037

GHG Emissions (tons/year)				
Scenario	GHG			
NB v. TSM-BRT	-2,275			
NB v. BRT	-23,053			
NB v. LRT ⁵	3,249			

Vehicle miles traveled obtained from traffic analysis. Urban rail miles are identical (18,156) for each alternative.
 Auto emission factors obtained from EMFAC2007.
 CNG emission factors obtained from CARB.
 California Climate Action Registry, General Reporting Protocol, March 2007.
 Assumes 17 kilowatt-hours per train mile.

Title : Crenshaw - Operational Emissions (GHG)

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2008/09/17 16:13:52

Scen Year: 2030 -- All model years in the range 1986 to 2030 selected

Season : Annual

Area : Los Angeles (SC)

Year: 2030 -- Model Years 1986 to 2030 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

Los Angeles (SC) Los Angeles (SC) Los Angeles (SC)

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Methane Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL
23 0.009 0.016 0.018 0.015 0.030 0.192 0.013

Pollutant Name: Carbon Dioxide Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

 $23 \qquad 401.212 \quad 514.282 \quad 701.026 \ 1740.724 \ 1797.938 \quad 158.982 \quad 548.358$

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 17\PM25.ADI

**
 ***********
 ** AERMOD Control Pathway
     STARTING
TITLEONE Site 17 - PM2.5
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24 ANNUAL
URBANOPT 9862049 Los_Angeles_County
     POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOLI VOLUME 373572.330 3750796.920 0.0

** DESCRSRC Equipment
LOCATION AREAL AREA 373477.189 3750692.718 0.0

** DESCRSRC Equipment

** Source Parameters **
SRCPARAM VOLI 0.0372 4.100 46.783 1.163
SRCPARAM AREAL 0.00001006 0.000 201.168 201.168 0.000
URBANSRC VOLI
URBANSRC VOLI
URBANSRC AREAL
SRCGROUP ALL
     SRCGROUP ALL
 SO FINISHED
 ...........
 *** AERMOD Receptor Pathway

***

***

***
RE STARTING
    STARTING
GRIDCART UCART1 STA
XYINC 371970.44 50 30.00 3756971.30 50 30.00
GRIDCART UCART1 END
GRIDCART UCART2 STA
XYINC 372437.24 21 121.72 3749713.16 21 111.63
RE FINISHED
 ************
***

SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBAES 10 METERS
MR FINISHED
 **********
 ** AERMOD Output Pathway
OU STARTING
    STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
PLOTFILE ANNUAL ALL PM25.AD\ANOOGALL.PLT
OU FINISHED
  ***********
  *** SETUP Finishes Successfully ***
  10/26/10
                                                                                                                                                                        17:26:09
PAGE 1
  **MODELOPTS: NonDFAULT CONC
  *** MODEL SETUP OPTIONS SUMMARY ***
  **Model Is Setup For Calculation of Average CONCentration Values.
  **MO GAS DEPOSITION Data Provided.

**MO PARTICLE DEPOSITION Data Provided.

**MO PARTICLE DEPOSITION DATA Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F
```

```
**Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
**Model Allows User-Specified Options:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
 **Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR and Calculates ANNUAL Averages
**This Run Includes: 2 Source(s); 1 Source Group(s); and 2948 Receptor(s)
**The Model Assumes A Pollutant Type of: PM2.5
**Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
                         Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                                                                      b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Angle = Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M**3
 **Approximate Storage Requirements of Model =
                                                                                                                                           3.8 MB of RAM.
10/26/10
                                                                                                                                                                                                                                                                                                                                                  17:26:09
PAGE 2
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                        FLAT
                                                                                                                                                                                        NODRYDPIJT NOWETDPIJT
                                                                                                                                            *** VOLUME SOURCE DATA ***
                                       NUMBER EMISSION NAMED AND A STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF T
            SOURCE
                                                                                                                                                                                                                                                            SOURCE SCALAR VARY
17:26:09
                                                                                                                                                                                                                                                                                                                                                  PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                       FLAT
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                                                            *** AREA SOURCE DATA ***
                                     NUMBER EMISSION RATE COORD (SW CORNER) BASE
                                                                                                                                                                                   RELEASE X-DIM Y-DIM
HEIGHT OF AREA OF AREA
                                                                                                                                                                                                                                                                   ORIENT.
                                                                                                                                                                                                                                                                                                INIT. URBAN EMISSION RATE
                                        PART. (GRAMS/SEC X Y Y ELEV. HEIGHT OF AREA OF AREA CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
        SOURCE
                                                                                                                                                                                                                                                                OF AREA
                                                                                                                                                                                                                                                                                                                         SOURCE SCALAR VARY
                                                                                                                                                                                                                                                                       (DEG.) (METERS)
0.00 YES
***
                                                                                                                                                                                                                                                                                                                                                 10/26/10
                                                                                                                                                                                                                                                                                                                                                  17:26:09
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                                                                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                                                                                                                                SOURCE IDS
  ALL VOL1 , AREA1 ,
*** AERMOD - VERSION 09292 ***
                                                                                                  *** Site 17 - PM2.5
                                                                                                                                                                                                                                                                                                                                                  10/26/10
                                                                                                                                                                                                                                                                                                                                                  17:26:09
                                                                                                                                                                                                                                                                                                                                                  PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                               *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                    *** X-COORDINATES OF GRID ***
                 371970.4, 372000.4, 372030.4, 372060.4, 372090.4, 372120.4, 372150.4, 372180.4, 372210.4, 372270.4, 372370.4, 372300.4, 372300.4, 372690.4, 372690.4, 37270.4, 372570.4, 372870.4, 37290.4, 37290.4, 372690.4, 372690.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37290.4, 37300.4, 37300.4, 37300.4, 373170.4, 373300.4, 373300.4, 373300.4, 373300.4, 373300.4, 373300.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373400.4, 373
                                                                                                                     *** Y-COORDINATES OF GRID ***
                                                                                                                                                  (METERS)
              3756971.3, 3757001.3, 3757031.3, 3757061.3, 3757091.3, 3757121.3, 3757151.3, 3757181.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757211.3, 3757511.3, 3757511.3, 3757511.3, 3757511.3, 3757511.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 3757631.3, 
10/26/10
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PAGE 6
  **MODELOPTS: NonDFAULT CONC
                                                                                                                              FLAT
                                                                                                                             NODRYDPLT NOWETDPLT
                                                                            *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                                  *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                *** X-COORDINATES OF GRID ***
                                                                                                    (METERS)
              372437.2, 372559.0, 372680.7, 372802.4, 372924.1, 373045.8, 373167.6, 373289.3, 373411.0, 373532.7, 373654.4, 373776.2, 373897.9, 374019.6, 374141.3, 374263.0, 374384.8, 374506.5, 374628.2, 374749.9, 374871.6,
                                                                                 *** Y-COORDINATES OF GRID ***
                                                                                                    (METERS)
  17:26:09
                                                                                                                                                                                                                                      PAGE
  **MODELOPTS: NonDFAULT CONC
                                                                                                                           NODRYDPLT NOWETDPLT
                                                                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
         ( 372647.2, 3750290.5, 10.0, 10.0, 0.0);
( 373809.9, 3750290.5, 10.0, 10.0, 0.0);
( 373842.2, 3751158.5, 10.0, 10.0, 0.0);
( 374060.2, 3751340.1, 10.0, 10.0, 0.0);
AERMOD - VERSION 09292 *** *** *** Site 17 - PM2.5
                                                                                                                                ( 373224.5, 3750294.5, 10.0, ( 374411.4, 3750290.5, 10.0, ( 373822.0, 3751416.9, 10.0,
                                                                                                                                                                                                          10.0,
                                                                                                                                                                                                                                         0.0);
                                                                                                                                                                                                                                     10/26/10
                                                                                                                                                                                                                                      17:26:09
                                                                                                                                                                                                                                      PAGE
  **MODELOPTS: NonDEAULT CONC
                                                                                                                             FLAT
NODRYDPLT NOWETDPLT
                                           * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED * LESS THAN 1.0 METER; WITHIN OPENPIT: OR BEYOND 80KM FOR FASTAREA/FASTALL
                                                          SOURCE - - RECEPTOR LOCATION - - DISTANCE
ID XR (METERS) YR (METERS) (METERS)
                                                           VOL1 373532.7
VOL1 373532.7
VOL1 373654.4
                                                                                                                       3750717.8 -12.13
3750829.5 -49.32
3750829.5 -12.26
                                                             VOL1 373532
VOL1 373654
*** Site 17 - PM2.5
                                                                                                                                                                                                                                     10/26/10
17:26:09
PAGE 9
  *** AERMOD - VERSION 09292 ***
   **MODELOPTs: NonDFAULT CONC
                                                                                                                            FLAT
NODRYDPLT NOWETDPLT
                                                                                     *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                       NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC)
                                                                                              1.54, 3.09, 5.14, 8.23, 10.80,
                                                                                                                                                                                                                                10/26/10
                                                                  *** Site 17 - PM2.5
  *** AERMOD - VERSTON 09292 ***
                                                                                                                                                                                                                                      17:26:09
PAGE 10
                                                                                                                            FLAT
NODRYDPLT NOWETDPLT
   **MODELOPTS: NonDFAULT CONC
                                                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
      Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
      Profile format: FREE
                                                                   Upper air station no.: 319
Name: UNKNOWN
Year: 2005
      Surface station no.: 0
Name: UNKNOWN
Year: 2005

First 24 hours of scalar data
YR MO DY JDY HR HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD

05 01 01 1 01 -3.3 0.062 -9.000 -9.000 -999. 35. 6.5 0.26 1.00 1.00 1.10 52.
05 01 01 1 02 -3.9 0.073 -9.000 -9.000 -999. 45. 8.9 0.26 1.00 1.00 1.00 1.30 51.
05 01 01 1 03 -2.7 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 1.00 48.
05 01 01 1 04 -2.3 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 1.00 52.
05 01 01 1 05 -2.8 0.062 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 1.00 52.
05 01 01 1 05 -3.9 0.078 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 1.00 52.
05 01 01 1 06 -5.3 0.078 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 52.
05 01 01 1 08 -4.9 0.078 -9.000 -9.000 -999. 38. 20.26 1.00 1.00 1.00 1.00 52.
05 01 01 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.00 1.20 55.
05 01 01 1 08 -4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 1.00 1.00 1.20 55.
05 01 01 1 10 11.4 4 0.293 1.397 0.005 862 365. -19.9 0.26 1.00 0.53 1.40 76.
05 01 01 1 1 13 13.8 1. 0.233 0.983 0.010 1212. 376. -17.3 0.26 1.00 0.22 2.10 83.
05 01 01 1 12 2 15.0 0.122 0.797 0.010 1215. 125. -10.8 0.26 1.00 0.18 0.80 30.
05 01 01 1 14 17.9 0.256 0.847 0.091 1221. 241. -35.4 0.26 1.00 0.18 1.70 184.
05 01 01 1 15 4.2 0.231 0.521 0.009 1226. 2598. -94.4 0.26 1.00 0.02 2.20 0.205.
05 01 01 1 15 4.2 0.231 0.522 0.099 1226. 2598. -94.4 0.26 1.00 0.02 2.20 0.205.
05 01 01 1 15 4.2 0.231 0.521 0.009 1226. 2598. -94.4 0.26 1.00 0.02 2.20 0.205.
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**MODELOPTs: NonDFAULT CONC
                                                                                              FLAT
NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                INCLUDING SOURCE(S):
                                                                                       VOL1 , AREA1 ,
                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                          X-COORD (METERS)
    Y-COORD (METERS)
                   371970.44 372000.44 372030.44 372060.44 372090.44 372120.44 372150.44 372180.44 372210.44
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*** Site 17 - PM2.5
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*** AERMOD - VERSION 09292 ***
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17:26:09
PAGE 12
**MODELOPTS: NonDFAULT CONC
                                                                                              NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                 INCLUDING SOURCE(S):
                                                                                       VOL1 , AREA1 ,
                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                        ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                          X-COORD (METERS)
                         371970.44 372000.44 372030.44 372060.44 372090.44 372120.44 372150.44 372180.44 372210.44
  3757211.30
3757181.30
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  3757151.30
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  3757001.30
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                                                  *** Site 17 - PM2.5
                                                                                                                                                             *** 10/26/10

*** 17:26:09

PAGE 13
                                                                                              FLAT
NODRYDPLT NOWETDPLT
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
                                                                                                 , AREA1
                                                 INCLUDING SOURCE(S):
                                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                        ** CONC OF PM2.5 IN MICROGRAMS/M**3
     Y-COORD
                                                                                           X-COORD (METERS)
                                                                                                    372360.44 372390.44 372420.44 372450.44 372480.44
                          372240.44 372270.44 372300.44 372330.44
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3758441.30	0.01500	0.01515	0.01530	0.01545	0.01562	0.01578	0.01595	0.01611	0.01627
3758411.30	0.01507	0.01522	0.01530 0.01537 0.01544 0.01552 0.01559 0.01566 0.01574 0.01582	0.01553	0.01569	0.01586	0.01602	0.01619	0.01635
3758381.30 3758351.30	0.01515 0.01522	0.01529	0.01544	0.01560	0.01576	0.01593	0.01610	0.01627	0.01643
3758321.30	0.01530	0.01544	0.01559	0.01575	0.01591	0.01608	0.01626	0.01643	0.01660
3758291.30 3758261.30	0.01537 0.01545	0.01551	0.01566	0.01582	0.01599	0.01616	0.01633	0.01651	0.01668
3758231.30	0.01552	0.01567	0.01582	0.01598	0.01615	0.01632	0.01649	0.01667	0.01684
3758201.30 3758171.30	0.01560	0.015/4	0.01589 0.01597	0.01606 0.01613	0.01622	0.01640	0.0165/	0.016/5	0.01693 0.01701
3758141.30	0.01576	0.01590	0.01605	0.01621	0.01638	0.01656	0.01674	0.01692	0.01710
3758111.30 3758081.30	0.01584	0.01598	0.01605 0.01613 0.01621 0.01630 0.01638 0.01646 0.01655 0.01663 0.01672 0.01681 0.01699 0.01708 0.01717 0.01726 0.01736	0.01629	0.01646	0.01664	0.01682	0.01700	0.01719
3758051.30	0.01601	0.01614	0.01630	0.01646	0.01663	0.01680	0.01699	0.01703	0.01736
3758021.30 3757991.30	0.01609	0.01623	0.01638	0.01654	0.01671	0.01689	0.01707	0.01726	0.01745
3757961.30	0.01626	0.01640	0.01655	0.01671	0.01688	0.01706	0.01682 0.01690 0.01699 0.01707 0.01716 0.01724 0.01733 0.01742	0.01733	0.01763
3757931.30 3757901.30	0.01635	0.01648	0.01663	0.01679	0.01696	0.01714	0.01733	0.01752	0.01772
3757871.30	0.01653	0.01666	0.01672	0.01697	0.01703	0.01723	0.01742 0.01751 0.01760 0.01769 0.01778 0.01787	0.01701	0.01781
3757841.30	0.01662	0.01675	0.01690	0.01706	0.01723	0.01741	0.01760	0.01779	0.01799
3757811.30 3757781.30	0.01671	0.01684	0.01699	0.01715	0.01732	0.01750	0.01769	0.01789	0.01809
3757751.30	0.01690	0.01703	0.01717	0.01733	0.01750	0.01768	0.01787	0.01807	0.01828
3757721.30 3757691.30	0.01699	0.01712	0.01726	0.01733 0.01742 0.01752	0.01759 0.01769	0.01777 0.01787	0.01797 0.01806	0.01817 0.01826	0.01837 0.01847
3757661.30	0.01709	0.01722	0.01736	0.01752	0.01778	0.01787	0.01815	0.01826	0.01857
3757631.30			0.01755				0.01825		
3757601.30	0.01739	0.01751	0.01765	0.01781	0.01797	0.01816	0.01835	0.01855	0.01876
3757541.30	0.01759	0.01772	0.01785	0.01801	0.01817	0.01835	0.01855	0.01875	0.01897
3757511.30	0.01769	0.01782	0.01796	0.01811	0.01827	0.01845	0.01865	0.01885	0.01907
3757451.30	0.01780	0.01792	0.01800	0.01832	0.01848	0.01866	0.01885	0.01890	0.01917
3757421.30	0.01801	0.01814	0.01827	0.01842	0.01859	0.01876	0.01896	0.01916	0.01938
3757391.30	0.01812	0.01825	0.01838	0.01853	0.01869	0.01887	0.01906	0.01927	0.01949
3757331.30	0.01835	0.01847	0.01860	0.01875	0.01891	0.01909	0.01928	0.01949	0.01971
3757301.30	0.01846	0.01858	0.01871	0.01886	0.01902	0.01920	0.01939	0.01960	0.01982
*** AERMOD -	0.01739 0.01749 0.01749 0.01759 0.01780 0.01781 0.01801 0.01812 0.01823 0.01823 0.01835 0.01846 0.01857	* *** Site	17 - PM2.5	0.01897	0.01913	0.01931	0.01930	***	10/26/10
		***						***	17:26:09
**MODELOPTs:	NonDFAULT CONC			FLAT					PAGE 14
				NODR	YDPLT NOWETD	PLT			
	*** THE ANN		ONCENTRATION			3 YEARS FOR	SOURCE GROUP:	ALL **	*
		INCLUDING	SOURCE(S):	VOL1 ,	AREAl ,				
		*** NETW	ORK ID: UCART1	; NETWORK	K TYPE: GRID	CART ***			
		** (CONC OF PM2.5	IN MICROGE	RAMS/M**3		**		
y-coord									
				W 000DD	(* 4 m m m m m m)				
		372270.44	372300.44	X-COORD 372330.44		372390.44	372420.44	372450.44	372480.44
(METERS)	372240.44			372330.44	372360.44				
(METERS)	372240.44			372330.44	372360.44				
(METERS) 3757241.30 3757211.30	372240.44			372330.44	372360.44				
(METERS) 	372240.44			372330.44	372360.44				
(METERS)	372240.44			372330.44	372360.44				
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757091.30	372240.44			372330.44	372360.44				
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757151.30 3757091.30 3757091.30 3757061.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967	372330.44 	372360.44 	0.01942 0.01954 0.01965 0.01977 0.01989 0.02001	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757151.30 3757091.30 3757091.30 3757061.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967	372330.44 	372360.44 	0.01942 0.01954 0.01965 0.01977 0.01989 0.02001	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757151.30 3757091.30 3757091.30 3757061.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967	372330.44 	372360.44 	0.01942 0.01954 0.01965 0.01977 0.01989 0.02001	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032 0.02044 0.02057	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02065 0.02077	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757151.30 3757091.30 3757091.30 3757061.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967	372330.44 	372360.44 	0.01942 0.01954 0.01965 0.01977 0.01989 0.02001	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032 0.02044 0.02057	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757061.30 3757061.30 3757061.30 3757001.30 3757001.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 0.01992	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 0.02006 0.02019	372360.44 	0.01942 0.01954 0.01955 0.01977 0.01889 0.02001 0.02001 0.02013 0.02026 0.02038	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032 0.02044 0.02057	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757061.30 3757061.30 3757061.30 3757001.30 3757001.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 VERSION 09292 **	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 0.01992	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 0.02006 0.02019	372360.44 	0.01942 0.01954 0.01955 0.01977 0.01889 0.02001 0.02001 0.02013 0.02026 0.02038	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032 0.02044 0.02057	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757061.30 3757061.30 3757061.30 3757001.30 3757001.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 VERSION 09292 **	0.01881 0.01893 0.01995 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 * *** Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967 0.01979 0.01992 0.02005 17 - PM2.5	372330.44 	372360.44 0.01925 0.01936 0.01948 0.01996 0.02099 0.02022 0.02035	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.01995 0.02008 0.02020 0.02032 0.02044 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112 10/26/10 17:26:09
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757061.30 3757061.30 3757061.30 3757001.30 3757001.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 VERSION 09292 **	0.01881 0.01893 0.01995 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 * *** Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967 0.01979 0.01979 0.02005 17 - PM2.5	372330.44 	372360.44 0.01925 0.01936 0.01948 0.01996 0.02099 0.02022 0.02035	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.01995 0.02008 0.02020 0.02032 0.02044 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112 10/26/10 17:26:09
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757061.30 3757061.30 3757061.30 3757001.30 3757001.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 VERSION 09292 **	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 * *** Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967 0.01979 0.01992 0.02005 17 - PM2.5	0.01909 0.01920 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 0.02006 0.02019 FLAT NODR:	372360.44 0.01925 0.01936 0.01936 0.01948 0.01972 0.01984 0.012909 0.02002 0.02035	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.020013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.01995 0.02008 0.02020 0.02032 0.02044 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112
(METERS) 3757241.30 3757211.30 3757181.30 3757151.30 3757121.30 3757061.30 3757061.30 3757061.30 3757001.30 3757001.30	372240.44 0.01869 0.01881 0.01892 0.01904 0.01917 0.01929 0.01941 0.01954 0.01966 0.01979 VERSION 09292 **	0.01881 0.01893 0.01893 0.01905 0.01917 0.01929 0.01944 0.01954 0.01979 0.01992 * ** Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967 0.01979 0.01992 0.02005 17 - PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 0.02006 0.02019 FLAT NODR: VALUES AVEI VOL1 , ; NETWORE	372360.44 0.01925 0.01936 0.01948 0.01960 0.01972 0.01984 0.01996 0.02002 0.02022 0.02035	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.020013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.01995 0.02008 0.02020 0.02032 0.02044 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01893 0.01905 0.01917 0.01929 0.01944 0.01954 0.01979 0.01992 * ** Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01967 0.01967 0.01979 0.02005 17 - PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VOLUS AVEI VOLI , NETWORN IN MICROGE	372360.44 0.01925 0.01936 0.01948 0.01960 0.01972 0.01984 0.01996 0.02002 0.02022 0.02035	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.020013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.01996 0.02008 0.02020 0.02032 0.02034 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02055 0.02077 0.02090	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02099 0.02112 10/26/10 17:26:09
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02099 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02099 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112
(METERS)	372240.44	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01972 0.01984 0.01990 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112
(METERS)	372240.44 0.01869	0.01881 0.01893 0.01905 0.01917 0.01929 0.01941 0.01954 0.01979 0.01979 0.01992 * * * * Site	0.01894 0.01906 0.01918 0.01930 0.01942 0.01954 0.01957 0.01979 0.01972 0.02005 17 - PM2.5 DRK ID: UCART1 CONC OF PM2.5	372330.44 0.01909 0.01920 0.01932 0.01944 0.01956 0.01969 0.01981 0.01994 VALUES AVEI VOL1 VALUES AVEI VOL1 IN MICROGI IN MICROGI 372600.44	372360.44 0.01925 0.01936 0.01946 0.01997 0.01998 0.02009 0.02002 0.02022 0.02035 MDPLT NOWETD RAGED OVER AREA1 , (TYPE: GRID RAMS/M**3 (METERS) 372630.44	0.01942 0.01954 0.01955 0.01977 0.01989 0.02001 0.02013 0.02026 0.02038 0.02051	0.01961 0.01973 0.01984 0.02908 0.02008 0.02022 0.02032 0.02037 0.02047 0.02057 0.02070	0.01982 0.01993 0.02005 0.02017 0.02028 0.02040 0.02052 0.02057 0.02057 0.02057	0.02004 0.02015 0.02015 0.02027 0.02039 0.02050 0.02062 0.02075 0.02087 0.02087 0.02087 1.02089 0.02112

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3757601.30 |
                        0.01898
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 3757571.30
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 3757541.30
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 3757511.30
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 3757391.30
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                                         0.01995
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 3757361.30
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 3757331.30
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                                         0.02017
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3757331.30
3757301.30
3757271.30
*** AERMOD -
                                         0.02028
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0.02040
*** Site 17
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               VERSION 09292
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                                                                                                                                                 PAGE 16
**MODELOPTs: NonDFAULT CONC
                                                                               FLAT
                                                                               NODRYDPIAT NOWETDPIAT
                     *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                       VALUES AVERAGED OVER \phantom{a} 3 YEARS FOR SOURCE GROUP: ALL \phantom{a} *** VOL1 , AREA1 ,
                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                ** CONC OF PM2.5
                                                                       IN MICROGRAMS/M**3
                                                                      X-COORD (METERS)
372600.44 372630.
 3757241.30
                                        0.02051
                                                                         0.02101
                                                                                         0.02125
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                        0.02027
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 3757211.30
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                                        0.02003
0.02075
0.02087
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                                                        0.02100
0.02112
0.02124
                                                                        0.02113
0.02125
0.02138
0.02150
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0.02199
0.02212
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0.02235
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0.02271
 3757181.30
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 3757091.30
                        0.02086
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 3757061.30
                        0.02098
                                        0.02123
                                                         0.02149
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               VERSION 09292 ***
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PAGE 17
**MODELOPTS: NonDFAULT CONC
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                                                                               NODRYDPIAT NOWETDPIAT
                      *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                       VALUES AVERAGED OVER $\  \  \, 3 YEARS FOR SOURCE GROUP: ALL VOL1 , AREAl ,
                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                               ** CONC OF PM2.5
                                                                       TN MTCROGRAMS/M**3
                                                                      X-COORD (METERS)
372870.44 372900.44 372930.44 372960.44 372990.44 373020.44
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*** AERMOD - VERSION 09292 ***
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*** Site 17 - PM2.5
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**MODELOPTS: NonDEAULT CONC
                                                                               FLAT
                                                                               NODRYDPLT NOWETDPLT
                                        INCLUDING SOURCE(S):
                                                                         VOL1 , AREA1 ,
                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                              ** CONC OF PM2.5
                                                                        IN MICROGRAMS/M**3
                                                                            X-COORD (METERS)
                      372780.44 372810.44 372840.44
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                                         *** Site 17 - PM2.5
*** AERMOD - VERSION 09292 ***
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                                                                                                                                               PAGE
                                                                             FLAT
NODRYDPLT NOWETDPLT
**MODELOPTS: NonDFAULT CONC
                     *** THE ANNUAL AVERAGE CONCENTRATION
                                                                      VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                              , AREA1
                                        INCLUDING SOURCE(S):
                                                                        VOI-1
                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                              ** CONC OF PM2.5
                                                                      IN MICROGRAMS/M**3
   Y-COORD
                                                                          X-COORD (METERS)
   (METERS)
                     373050.44 373080.44 373110.44 373140.44 373170.44 373200.44 373230.44 373260.44 373290.44
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PAGE 20
               VERSION 09292 ***
**MODELOPTS: NonDFAULT CONC
                                                                             FLAT
                                                                             NODRYDPIAT NOWETDPIAT
                     *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                      VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                             , AREA1
                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                             ** CONC OF PM2.5
                                                                      IN MICROGRAMS/M**3
   V_COOPD
                                                                          X-COORD (METERS)
                                   373080.44 373110.44
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 3757181.30
                        0.02343
                                       0.02348
                                                       0.02354
                                                                       0.02361
                                                                                       0.02369
                                                                                                       0.02378
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                                        0.02366
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                                                                                       0.02386
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                                                                                                                       0.02406
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                                        0.02384
                                                                                                                       0.02424
 3757061.30
                        0.02414
                                        0.02420
                                                       0.02426
                                                                       0.02433
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                                                                                                       0.02450
                                                                                                                       0.02461
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                                                                                                                                                      0.02487
 3757031.30
                        0.02433
                                       0.02439
                                                       0.02445
                                                                       0.02452
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 3757001.30
                        0.02452
                                        0.02457
                                                       0.02463
                                                                       0.02471
                                                                                       0.02479
                                                                                                       0.02488
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                                                                                                                                                      0.02525
                                       0.02476 0.02483
*** Site 17 - PM2.5
3756971.30
*** AERMOD -
                        0.02471
                                                       0.02483
                                                                       0.02490
                                                                                       0.02498
                                                                                                       0.02507
                                                                                                                       0.02518
                                                                                                                                       0.02531
                                                                                                                                                       0.02545
                                                                                                                                              10/26/10
17:26:09
PAGE 21
               VERSION 09292 ***
**MODELOPTS: NonDFAULT CONC
                                                                             FLAT
NODRYDPLT NOWETDPLT
                     *** THE ANNUAL AVERAGE CONCENTRATION
                                                                      VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                            ** CONC OF PM2.5
                                                                      IN MICROGRAMS/M**3
   Y-COORD
                                                                          X-COORD (METERS)
                     373320.44
                                    373350.44 373380.44
                                                                    373410.44 373440.44
 3758411.30
                        0.01842
                                       0.01853
                                                       0.01866
                                                                       0.01879
                                                                                       0.01894
 3758381.30
                        0.01853
                                       0.01865
                                                       0.01878
                                                                       0.01891
                                                                                       0.01906
 3758351 30
                                                                                      0 01918
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3758321.30 |
                          0.01876
                                            0.01888
                                                             0.01901
                                                                               0.01915
  3758291.30
                           0.01888
                                            0.01900
                                                             0.01913
                                                                               0.01927
                                                                                                 0.01942
  3758261.30
                           0.01900
                                            0.01912
                                                             0.01925
                                                                               0.01939
                                                                                                 0.01955
  3758231.30
                                            0.01924
                                                              0.01938
                                                                               0.01952
                                                                                                 0.01967
                           0.01912
0.01924
0.01936
0.01949
                                            0.01961
  3758111.30
                           0.01961
                                            0.01974
                                                              0.01988
                                                                               0.02003
                                                                                                 0.02019
  3758081.30
                           0.01974
                                            0.01987
                                                              0.02001
                                                                               0.02016
                                                                                                 0.02032
  3758051.30
                           0.01987
                                            0.02000
                                                              0.02014
                                                                               0.02029
                                                                                                 0.02045
  3758021 30
                           0 02000
                                            0.02013
                                                              0 02027
                                                                                0.02042
 3757991.30
3757961.30
3757931.30
                                            0.02026
0.02039
0.02053
                                                             0.02027
0.02040
0.02054
0.02068
                           0.02013
                                                                               0.02042
                                                                                                 0.02033
                                                                               0.02083
                           0.02040
                                                                                                 0.02100
  3757901.30
                           0.02053
                                            0.02067
                                                              0.02081
                                                                               0.02097
                                                                                                 0.02114
  3757871.30
                           0.02067
                                            0.02080
                                                              0.02095
                                                                               0.02111
                                                                                                 0.02129
  3757841.30
                           0.02081
                                            0.02094
                                                              0.02109
                                                                                0.02126
                                                                                                 0.02143
  3757811.30
 3757781.30
3757781.30
3757751.30
3757721.30
3757691.30
                           0.02109
                                            0.02123
                           0.02138
                                            0.02152
                           0.02152
                                            0.02167
                                                              0.02182
                                                                               0.02199
                                                                                                 0.02217
  3757661.30
                           0.02167
                                            0.02182
                                                              0.02197
                                                                               0.02214
                                                                                                 0.02233
  3757631.30
                           0.02182
                                            0.02197
                                                              0.02213
                                                                               0.02230
                                                                                                 0.02248
 3757631.30
3757601.30
3757571.30
3757541.30
3757511.30
                           0.02182
0.02197
0.02213
0.02228
0.02244
                                            0.02212
0.02227
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0.02228
0.02244
0.02259
0.02275
                                                                               0.02245
0.02261
0.02277
0.02293
                                                                                                 0.02248
0.02264
0.02280
0.02296
0.02313
                                            0.02259
  3757481.30
                           0.02260
                                            0.02275
                                                              0.02291
                                                                               0.02309
                                                                                                 0.02329
  3757451.30
                           0.02276
                                            0.02291
                                                              0.02308
                                                                               0.02326
                                                                                                 0.02346
  3757421.30
                           0.02292
                                            0.02307
                                                              0.02324
                                                                               0.02343
                                                                                                 0.02363
 3757391.30
3757361.30
3757331.30
                           0.02308
0.02325
0.02342
                                                              0.02324
0.02341
0.02358
0.02375
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0.02359
0.02377
0.02394
                                            0.02324
                                                                                                 0 02380
                                            0.02324 0.02341 0.02358
  3757301.30
                           0.02359
                                            0.02375
                                                              0.02392
                                                                               0.02411
                                                                                                 0.02432
3757271.30 | 0.02376
*** AERMOD - VERSION 09292 ***
                                            0.02392
                                                              0.02410
                                                                               0.02429
                                                                                                 0.02450
                                             *** Site 17 - PM2.5
                                                                                                                                                               10/26/10
                                                                                                                                                               17:26:09
                                                                                                                                                               PAGE 22
**MODELOPTS: NonDFAULT CONC
                                                                                    NODRYDPLT NOWETDPLT
                        *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S):
                                                                             VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                               VOL1 , AREA1
                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
    Y-COORD
                                                                                  X-COORD (METERS)
                       373320.44 373350.44 373380.44
    (METERS)
                                                                           373410.44
                                                                                              373440.44
                                            0.02428
0.02446
                                                                               0.02465
0.02484
                                                                                                 0.02487
  3757211.30
3757181.30
                           0.02411
0.02429
                                                             0.02446
0.02464
                                                                                                 0.02505
  3757151.30
                           0.02447
                                            0.02464
                                                             0.02482
                                                                               0.02502
                                                                                                 0.02524
  3757121.30
                           0.02465
                                            0.02482
                                                              0.02501
                                                                               0.02521
                                                                                                 0.02543
  3757091.30
                           0.02484
                                            0.02501
                                                              0.02520
                                                                               0.02540
                                                                                                 0.02562
                                                                               0.02540
0.02559
0.02579
0.02599
  3757001.30
                           0.02541
                                            0.02559
                                                              0.02578
                                                                                                 0.02622
3756971.30 | 0.02560
*** AERMOD - VERSION 09292 ***
                                            0.02578
                                                              0.02597
                                                                               0.02619
                                                                                                0.02642
                                             *** Site 17 - PM2.5
                                                                                                                                                              10/26/10
                                                                                                                                                               17:26:09
                                                                                                                                                               PAGE 23
**MODELOPTS: NonDFAULT CONC
                                                                                      NODRYDPLT NOWETDPLT
                         *** THE ANNUAL AVERAGE CONCENTRATION
                                                                             VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                            INCLUDING SOURCE(S):
                                                                               VOL1 , AREA1 ,
                                             *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                  X-COORD (METERS)
                                                                            A-COURD (MELERS)
372802.40 372924.12 373045.84 373167.56 373289.28 373411.00
                       372437.24 372558.96 372680.68
    (METERS)
                          0.14821
0.15723
0.16931
                                                             0.19856
0.20972
0.21981
                                                                                                 0.24765
0.27595
0.30835
                                            0.17171
0.17841
0.18999
                                                                                                                                    0.29710
0.34461
0.40178
0.47111
 3751834.13
3751722.50
                                                                               0.24418
0.26272
                                                                                                                  0.31191
0.35354
                                                                                                                                                     0.36732
                                                                                                                                                                       0.42223
  3751610.87
                           0.18455
                                            0.20607
                                                             0.23541
                                                                               0.27900
                                                                                                 0.33991
                                                                                                                  0.40392
                                                                                                                                                      0.52806
                                                                                                                                                                       0.60382
  3751499.24
                           0.20933
                                            0.22962
                                                              0.25846
                                                                               0.30149
                                                                                                 0.36831
                                                                                                                  0.45921
                                                                                                                                    0.55694
                                                                                                                                                      0.65065
                                                                                                                                                                       0.75282
 3751499.24
3751387.61
3751275.98
3751164.35
3751052.72
                                            0.22302
0.26381
0.30314
0.36565
0.45226
                           0.23588
                                                              0.29540
                                                                               0.33751
                                                                                                 0.40400
                                                                                                                  0.51322
                                                                                                                                    0.66013
                                                                                                                                                      0.81738
                                                                                                                                                                       0.97445
                           0.23588
0.27017
0.32676
0.39353
                                                                                                                                    0.77432
0.91743
1.19453
                                                                               0.48067
0.61772
0.81505
                                                                                                                                                     1.04226
1.33193
1.75119
2.78712
  3750941.09
                           0.47430
                                            0.55729
                                                              0.66693
                                                                                                 1.02216
                                                                                                                  1.32966
                                                                                                                                    1.83211
                                                                                                                                                                       5.37990
  3750829.46
                           0.58977
                                            0.70586
                                                              0.86498
                                                                               1.09343
                                                                                                 1.44271
                                                                                                                  2.02558
                                                                                                                                    3.13597
                                                                                                                                                      5.86449
                                                                                                                                                                     18.87453
  3750717.83
                           0.69415
                                            0.85179
                                                              1.07935
                                                                               1.42739
                                                                                                 2.00115
                                                                                                                  3.05396
                                                                                                                                    5.31742
                                                                                                                                                     11.18721
                                                                                                                                                                      29.78018
 3750717.83
3750606.20
3750494.57
3750382.94
3750271.31
3750159.68
                                                             1.07935
1.37079
1.72339
1.98460
2.02751
1.83972
                                                                                                                                    5.31742
7.10651
6.39537
4.31616
2.67885
1.70854
                                                                                                                                                    11.18721
11.93925
7.36807
3.85706
2.16115
1.34311
                           0.82678
1.01783
1.19810
1.33871
                                                                                                                  4.27725
4.72677
3.99581
2.88938
                                                                                                                                                                     16.60139
6.08716
2.75226
1.54308
                                            1.04641
                                                                                1.87948
                                                                                                 2.73706
                                            1.04641
1.30273
1.52838
1.65669
1.61658
                                                                                                 2.73706
3.33316
3.30133
2.74998
2.09531
                           1.38405
                                                                                2.02139
                                                                                                                  1.98180
  3750048.05
                           1.31241
                                            1.44899
                                                              1.55765
                                                                               1.60258
                                                                                                 1.53514
                                                                                                                  1.37362
                                                                                                                                    1.15733
                                                                                                                                                      0.90612
                                                                                                                                                                       0.70386
  3749936.42
                           1.17319
                                            1.24317
                                                              1.27321
                                                                               1.23109
                                                                                                 1.12541
                                                                                                                  0.99001
                                                                                                                                    0.82562
                                                                                                                                                      0.65314
                                                                                                                                                                       0.53126
3749824.79 | 1.01930
3749713.16 | 0.86989
*** AERMOD - VERSION 09292 ***
                                            1.04079
                                                              1.01383
                                                                               0.93971
                                                                                                 0.84956
                                                                                                                  0.73901
                                                                                                                                    0.61406
                                                                                                                                                      0.49470
                                            0.85240 0.79848

*** Site 17 - PM2.5
                                                                                                                                                              PAGE 24
**MODELOPTS: NonDFAULT CONC
                                                                                      FLAT
                                                                                      NODRYDPIAT NOWETDPIAT
                        *** THE ANNUAL AVERAGE CONCENTRATION
                                                                              VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                            INCLUDING SOURCE(S):
                                             *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                    ** CONC OF PM2.5 IN MICROGRAMS/M**3
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Site #17 – Localized $PM_{2.5}$ Concentrations

	373532.72			373897.88						
3751945.76	0.42158	0.46630	0.48747	0.50916	0.51821	0.49168	0.47292		0.46508	0.45753
3751834.13	0.49792 0.59892	0.55493 0.67422	0.58367 0.71516	0.61088 0.74300	0.60531 0.71706	0.57220 0.68479	0.55787 0.67137		0.54805	0.55010
3751722.50 3751610.87		0.84138		0.74300					0.66987 0.85478	0.68290 0.87461
3751499.24	0.93486	1.08855	1.16950	1.16145	1.10605	1.09139	1.10881		1.13383	1.13235
3751387.61 3751275.98	1.23669 1.74247	1.48045 2.16041	1.57892 2.26666			1.51082 2.22747			1.50992 1.86962	
3751164.35	2.71742	3.50579	3.64508		3.54820	3.15653	2.56481		1.98495	1.51849
3751052.72	5.08474	7.04472	7.34054	6.60850	5.10781	3.61857	2.51874		1.79237	1.32639
3750941.09 3750829.46	16.04040	25.14665 187.20675	16.86208	9.17796 7.28335	5.19647 3.73547	3.14572 2.30385	2.07343 1.58584		1.47179 1.17076	1.10381 0.90670
3750717.83	190.57969	163.17150	8.07212	3.69785	2.26111	1.56453	1.16111		0.90317	0.72666
3750606.20 3750494.57		5.40754 2.43985		1.87373 1.15092					0.67208 0.50681	0.56259 0.43734
3750382.94		1.41716				0.56385			0.40747	0.35025
3750271.31	1.13946	0.93583	0.85098	0.70417		0.41750	0.38789		0.34715 0.28530	0.30178
3750159.68 3750048.05	0 50733	0.67749 0.51815	0.62223 0.47253	0.57986 0.46228	0.44656	0.33265 0.30417	0.29776 0.24088		0.28530	0.26350 0.22005
3749936.42	0 46775	0 41004	0.37622	0.36670	0.35750				0.18441	0.17798
3749824.79	0.37850 0.31414	0.33510	0.37622 0.31052 0.26197	0.29589 0.24633	0.30205	0.29053 0.27197 0.24688	0.21506 0.20776		0.16868	0.14705 0.13365
*** AERMOD -	VERSION 09292 ***	*** Site	17 - PM2.5	0.24033	0.23033	0.24000	0.20770	***	10/	26/10
		***						***	17:	26:09
**MODELOPTs:	NonDFAULT CONC			FLAT					PAG	E 25
				NODR	YDPLT NOWETE	PLT				
	*** THE ANNUA	L AVERAGE C	ONCENTRATION	VALUES AVE	RAGED OVER	3 YEARS FOR	SOURCE GROUP:	ALL	***	
			SOURCE(S):							
			ORK ID: UCART2			CART ***				
		**	CONC OF PM2.5	IN MICROG	RAMS/M**3		**			
Y-COORD		2040	2011	X-COORD	(METERS)					
(METERS)	374628.20	374749.92	374871.64							
3751945.76 3751834.13		0.46996 0.57226								
3751722.50	0.69816	0.70864	0.70246							
3751610.87		0.86333								
3751499.24 3751387.61	1.08625 1.24543	1.00166 1.06823								
3751275.98	1.27484	1.02960	0.83785							
3751164.35 3751052.72	1.17511 1.02060	0.93022 0.81075	0.75411 0.66073							
3750941.09	0.86266	0.69606	0.57593							
3750829.46 3750717.83										
3750606.20			0.36201							
3750494.57 3750382.94		0.33784	0.30050 0.25120							
3750382.94		0.27739	0.21096							
3750159.68	0.23615	0.20869	0.18502							
3750048.05 3749936.42		0.19060 0.16767	0.17219 0.15695							
3749824 79	0 14488	0.14447	0.13888							
	0.12091 VERSION 09292 ***		0.12124 17 - PM2.5					***	10/	26/10
		***						***	17:	26:09
**MODELOPTs:	NonDFAULT CONC			FLAT					PAG	E 26
				NODR	YDPLT NOWETD	PLT				
	*** THE ANNUA	L AVERAGE C	ONCENTRATION	VALUES AVE	RAGED OVER	3 YEARS FOR	SOURCE GROUP:	ALL	***	
		INCLUDING	SOURCE(S):	VOL1 ,	AREAl ,					
			*** DISCRETE	CARTESIAN R	ECEPTOR POIN	ITS ***				
		**	CONC OF PM2.5	IN MICROG	RAMS/M**3		**			
X-COORI	O (M) Y-COORD (M)	CON	C	X-	COORD (M)	Y-COORD (M)	CONC			
	17.17 3750290.48 19.89 3750290.48				373224.49	3750294.52 3750290.48	2.74330 0.34586			
	12.19 3751158.48				373822.00	3751416.86	1.45319			
37406	0.20 3751340.15 VERSION 09292 ***	1.7	4871 17 - PM2.5					***	10/	26/10
AERMOD -	VERSION U9292 ***	***	1/ - PM2.5					***		26:09
***************************************	NonDFAULT CONC			FLAT					PAG	E 27
MODELOFIS:	NOIDFAULI CONC				YDPLT NOWETE	PLT				
	**	* THE 1ST	HIGHEST 24-HR	AVERAGE CON	CENTRATION	VALUES FOR	SOURCE GROUP:	ΔΤ.Τ.	***	
			SOURCE(S):			VALUES FOR A	SOURCE GROUP.	ADD		
		*** NETW	ORK ID: UCART1	; NETWOR	K TYPE: GRID	CART ***				
		**	CONC OF PM2.5	IN MICROG	RAMS/M**3		**			
Y-COORD				X-COORD	(METERS)					
				37	2030.44		2060.44			
3758441.3	0.32560 (06091 0.32628 (06091	⊥∠4) 0 124) ∩	.32964 (060911	.24) 0.3 .24) 0.3	3122 (060911 3293 (060911	.24) 0.3	3032 (06091124 3254 (06091124)	U.32703 0.32970	(06091124)
3758381.3	0.32691 (06091	124) 0	.33199 (060911	24) 0.3	3459 (060911	.24) 0.3	3470 (06091124)	0.33231	(06091124)
3758351.3	0.32740 (06091	124) 0	.33303 (060911	24) 0.3	3618 (060911	24) 0.3	3682 (06091124)	0.33487	(06091124)
3758291.3	0.32774 (06091	124) 0	.33471 (060911	.24) 0.3	3901 (060911	.24) 0.3	4075 (06091124)	0.33739	(06091124)
3758261.3	0.32812 (06091	124) 0	.33543 (060911	24) 0.3	4027 (060911	.24) 0.3	4253 (06091124)	0.34214	(06091124)
3/58231.3 3758201.3	0.32816 (06091	ı∠4) 0 124) ∩	.33653 (060911	.∠4) 0.3 .24) ∩ ₹	414/ (060911 4254 (060911	.24) U.3	±4∠6 (U6U91124 4592 (06091124)	0.34440	(06091124)
3758171.3	0.32780 (06091	124) 0	.33686 (060911	24) 0.3	4346 (060911	.24) 0.3	4745 (06091124)	0.34874	(06091124)
3758141.3	0.32748 (06091	124) 0 124) ^	.33710 (060911	24) 0.3	4427 (060911 4500 (060911	24) 0.3	4885 (06091124)	0.35073	(06091124)
3758081.3	0.32643 (06091	124) 0	.33724 (060911	.24) 0.3	4563 (060911	.24) 0.3	5139 (06091124)	0.35441	(06091124)
3758051.3	0.32560 (06091 0.32628 (06091 0.32691 (06091 0.32740 (06091 0.32774 (06091 0.32812 (06091 0.32816 (06091 0.32804 (06091 0.32704 (06091 0.32704 (06091 0.32704 (06091 0.32636 (06091 0.3268 (06091	124) 0	.33707 (060911	24) 0.3	4609 (060911 4642 (060911	24) 0.3	5249 (06091124)	0.35613	(06091124)
3,30021.3	0.32400 (00091	, 0		, 0.3	(000511	, 0.3	(00071124	,	0.33/12	(4277777

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0.34665 (06091124)

0.34678 (06091124)

0.34673 (06091124)

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17:26:09
PAGE 28
 **MODELOPTS: NonDFAULT CONC
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                                                                                                                                        *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                       X-COORD (METERS)
     Y-COORD
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PAGE 29
 **MODELOPTS: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                                                         *** THE \phantom{a} 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \phantom{a} VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                        INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
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**MODELOPTS: NonDEAULT CONC
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1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                           INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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 **MODELOPTs: NonDFAULT CONC
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NODRYDPLT NOWETDPLT
                                                                                                                                                 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                         INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                          X-COORD (METERS)
                                                          372270.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.44 372300.25530 (5552124) 0.26121 (5552124) 0.26550 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124) 0.26730 (5552124)
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PAGE 32
   *** AERMOD - VERSION 09292 ***
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                             *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                                              , AREA1
                                                                                                                               *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
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NODRYDPLT NOWETDPLT
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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 4 372480.44 0.25774 (06090524) 0.26034 (06090524) 0.26174 (06090524) 0.26196 (06090524) 0.25883 (06090524) 0.26159 (06090524) 0.26319 (06090524) 0.26356 (06090524) 0.25991 (06090524) 0.26285 (06090524) 0.26464 (06090524) 0.26515 (06090524) 0.26050 (06090524) 0.26194 (06090524) 0.26194 (06090524) 0.26194 (06090524) 0.26194 (06090524) 0.26194 (06090524) 0.26194 (06090524) 0.26194 (06090524) 0.26194 (05052124) 0.26531 (06090524) 0.26676 (06090524) 0.26676 (06090524) 0.26676 (06090524) 0.26676 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26920 (06090524) 0.26087 (06090524) 0.26265 (06090524) 0.26442 (06090524) 0.26618 (06090524) 0.26796 (06090524) 0.26975 (06090524) 0.27151 (06090524) 3758411.3 | 3758381.3 | 3758351.3 | 3758321.3 | 0.26394 (05052124) 0.26626 (05052124) 0.26625 (05052124) 0.27051 (05052124) 0.27051 (05052124) 0.27241 (05052124) 0.27415 (05052124) 0.27573 (05052124) 0.27573 (05052124) 0.27639 (05052124) 0.27639 (05052124) 0.28032 (05052124) 0.28152 (05052124) 0.28152 (05052124) 0.28193 (05052124) 0.28193 (05052124) 0.28195 (05052124) 0.28185 (05052124) 0.28185 (05052124) 3758291.3 3758261.3 0.27029 (06090524) 0.27164 (06090524) 0.27300 (06090524) 0.27435 (06090524) 0.27567 (06090524) 0.27696 (06090524) 0.27823 (06090524) 0.27155 (06090524) 0.27312 (06090524) 0.27468 (06090524) 0.27624 (06090524) 0.27780 (06090524) 0.27932 (06090524) 0.28080 (06090524) 3758231.3 3758201.3 3758171.3 3758141.3 0.26884 (06090524) 0.27325 (06090524) 0.26884 (06090524) 0.27002 (06090524) 0.27114 (06090524) 0.27224 (06090524) 0.27330 (06090524) 0.27446 (05052124) 0.27325 (06090524) 0.27498 (06090524) 0.27671 (06090524) 0.27845 (06090524) 0.28019 (06090524) 0.28190 (06090524) 0.27696 (06090524)
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0.33565 (06090524)
10/26/10
17:26:09
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAGE 36
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                            FLAT
                                                                                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                                           *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                X-COORD (METERS)
.72600.44 372630.44 372660.44 372690.44
3757241.3 | 0.3289 (06090524) 0.33458 (06090524) 0.33806 (06090524) 0.34166 (06090524) 0.34100 (06090524) 3757211.3 | 0.33028 (06090524) 0.33623 (06090524) 0.34005 (06090524) 0.34166 (06090524) 0.34100 (06090524) 3757181.3 | 0.33152 (06090524) 0.33763 (06090524) 0.34205 (06090524) 0.34400 (06090524) 0.3465 (06090524) 3757151.3 | 0.33269 (06090524) 0.34907 (06090524) 0.34400 (06090524) 0.3465 (06090524) 3757121.3 | 0.33382 (06090524) 0.34097 (06090524) 0.34596 (06090524) 0.34661 (06090524) 0.34629 (06090524) 3757091.3 | 0.33491 (06090524) 0.34492 (06090524) 0.34787 (06090524) 0.35088 (06090524) 0.35151 (06090524) 3757031.3 | 0.33595 (06090524) 0.34395 (06090524) 0.3497 (06090524) 0.35151 (06090524) 0.35151 (06090524) 3757031.3 | 0.33693 (06090524) 0.34675 (06090524) 0.35155 (06090524) 0.35534 (06090524) 0.3564 (06090524) 3757001.3 | 0.33785 (06090524) 0.34675 (06090524) 0.35515 (06090524) 0.35534 (06090524) 0.35664 (06090524) 3756971.3 | 0.33870 (06090524) 0.34675 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.35674 (06090524) 3756971.3 | 0.33870 (06090524) 0.34675 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34807 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34675 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34807 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34807 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34807 (06090524) 0.35505 (06090524) 0.35596 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34807 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.36174 (06090524) 3756971.3 | 0.33870 (06090524) 0.34807 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.35505 (06090524) 0.35074 (06090524) 3756971.3 | 0.33870 (06090524) 0.35607 (06090524)
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0.35920 (06090524)
0.36174 (06090524)
10/26/10
17:26:09
PAGE 37
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                            FLAT
                                                                                                                                                                                                                                            NODRYDPLT NOWETDPLT
                                                                                                            *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                             ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                             372720.44 372750.44 372750.44 372780.44 372810.44
                                                                                                                                                                                                                                      0.30364 (07090824)
3758441.3
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3758381.3
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3758291.3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAGE 38
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                             NODRYDPLT NOWETDPLT
                                                                                                            *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
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*** NETWORK ID: HCART1 ; NETWORK TYPE: GRIDCART ***

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** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                               X-COORD (METERS)
372720.44 372750.44 372780.44 372810.44 372840.44
       Y-COORD
                                                                                     0.33498 (06090524) 0.32932 (06090524) 0.32994 (07072724) 0.32694 (07072724) 0.33791 (06090524) 0.33288 (06090524) 0.33156 (07072724) 0.32982 (07072724) 0.34085 (06090524) 0.33563 (06090524) 0.33368 (07072724) 0.33268 (07072724) 0.3478 (06090524) 0.33808 (07072724) 0.33523 (07072724) 0.3478 (07072724) 0.3479 (07072724) 0.3479 (07072724) 0.3479 (07072724) 0.3470 (07072724) 0.3470 (06090524) 0.3418 (06090524) 0.3481 (07072724) 0.33570 (07072724) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (06090524) 0.34951 (07072724) 0.35832 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35803 (06090524) 0.35802 (06090524) 0.35802 (06090524) 0.35803 (06090524) 0.34816 (07072724)
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   3757151.3
3757121.3
  3757151.3 | 0.34378 (06090524) | 0.33880 (0609 37571921.3 | 0.34670 (06090524) | 0.34198 (0609 3757091.3 | 0.34961 (06090524) | 0.34517 (0609 3757061.3 | 0.35251 (06090524) | 0.34517 (0609 3757061.3 | 0.35251 (06090524) | 0.35157 (0609 3757031.3 | 0.35544 (06090524) | 0.35157 (0609 3757071.3 | 0.35804 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.35802 (0609 3756971.3 | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524) | 0.36123 (06090524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.34603 (07072724)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10/26/10
17:26:09
                                                                                                                                                                                                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                          THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                       *** THE
                                                                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                    ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                                   X-COORD (METERS)
       Y-COORD |
(METERS) |
                                                                                  372870.44
                                                                                                                                                                                                                  372900.44
                                                                                                                                                                                                                                                                                                                                                 372930.44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     372960.44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  372990.44
                                                                                                                                                                                                                                                                                                                 372930.44 372960.44

0.30632 (07091824) 0.30187 (07030724) 0.30815 (07091824) 0.30352 (07030724) 0.3095 (07091824) 0.30552 (07030724) 0.31171 (07091824) 0.30586 (07030724) 0.31171 (07091824) 0.309686 (07030724) 0.31344 (07091824) 0.309686 (07091824) 0.31344 (07091824) 0.31142 (07091824) 0.31540 (07091824) 0.31680 (07091824) 0.31365 (07091824) 0.31882 (07091824) 0.31899 (07091824) 0.31895 (07091824) 0.31999 (07091824) 0.31805 (07091824) 0.32286 (07091824) 0.32237 (07091824) 0.32228 (07091824) 0.32237 (07091824) 0.32238 (07091824) 0.32242 (07091824) 0.32237 (07091824) 0.32242 (07091824) 0.32655 (07091824) 0.32655 (07091824) 0.32655 (07091824) 0.32655 (07091824) 0.32651 (07091824) 0.32651 (07091824) 0.32651 (07091824) 0.32651 (07091824) 0.32651 (07091824) 0.33057 (07091824) 0.33057 (07091824) 0.33057 (07091824) 0.33057 (07091824) 0.33057 (07091824) 0.33057 (07091824) 0.33559 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.33652 (07091824) 0.34650 (07091824) 0.33652 (07091824) 0.34650 (07091824) 0.33652 (07091824) 0.34650 (07091824) 0.34650 (07091824) 0.34716 (07091824) 0.34650 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3557 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3560 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824) 0.3559 (07091824)
                                                                                                                                                                                                                            3/2900.44 3/2930.44 3/2960.44
                                                                                     0.30520 (05082924)

0.30564 (05082924)

0.30787 (05082924)

0.30918 (05082924)

0.31174 (05082924)

0.311298 (05082924)

0.31298 (05082924)

0.31607 (07030724)

0.31799 (07030724)

0.31991 (07030724)
   3758411.3
3758381.3
   3758351.3
3758321.3
                                                                                    0.3102 (07090824)
0.30389 (07090824)
0.30389 (07090824)
0.30675 (07090824)
0.31242 (07090824)
0.31523 (07090824)
0.31603 (07090824)
0.32081 (07090824)
0.32081 (07090824)
0.32629 (07090824)
0.32629 (07090824)
0.32637 (07090824)
0.33159 (07090824)
0.33159 (07090824)
0.33159 (07090824)
0.33417 (07090824)
  3758321.3
3758291.3
3758261.3
3758231.3
3758201.3
3758171.3
                                                                                                                                                                                                                  0.31540 (07091824)
0.31540 (07091824)
0.31617 (07091824)
0.31688 (07091824)
  3758171.3
3758141.3
3758111.3
3758081.3
3758051.3
3758021.3
3757991.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.31799 (07030724)
0.31991 (07030724)
0.32183 (07030724)
0.32187 (07030724)
0.32562 (07030724)
0.32752 (07030724)
0.32943 (07030724)
                                                                                                                                                                                                                  0.31588 (07091824)
0.31754 (07091824)
0.31815 (07091824)
0.32124 (07090824)
0.32439 (07090824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3943 (07030724)
0.33135 (07030724)
0.33125 (07030724)
0.33525 (07030724)
0.33525 (07030724)
0.33736 (07091824)
0.34021 (07091824)
0.34454 (07091824)
0.34687 (07091824)
0.34687 (07091824)
0.34514 (07091824)
0.35152 (07091824)
0.35579 (07091824)
0.35579 (07091824)
0.35789 (07091824)
0.35995 (07091824)
0.35995 (07091824)
                                                                                     0.33417 (07090824)

0.33672 (07090824)

0.33922 (07090824)

0.34164 (07090824)

0.34635 (07090824)

0.34866 (07090824)

0.35091 (07090824)

0.35518 (07090824)

0.35518 (07090824)
                                                                                                                                                                                                               0.32439 (07090824)
0.32751 (07090824)
0.33059 (07090824)
0.33667 (07090824)
0.33667 (07090824)
0.34270 (07090824)
0.34270 (07090824)
0.34567 (07090824)
0.3459 (07090824)
0.35147 (07090824)
  3757991.3
3757961.3
3757931.3
3757901.3
3757871.3
3757841.3
3757781.3
     3757751.3
3757721.3
                                                                                      0.35518 (07090824)
0.35721 (07090824)
0.35918 (07090824)
0.36107 (07090824)
0.36286 (07090824)
0.36456 (07090824)
     3757691.3
                                                                                                                                                                                                               0.35432 (07090824)
0.35731 (07090824)
0.35987 (07090824)
0.36254 (07090824)
0.36515 (07090824)
0.36770 (07090824)
0.37020 (07090824)
0.37020 (07090824)
0.37026 (07090824)
0.37726 (07090824)
0.37726 (07090824)
0.37726 (07090824)
0.37726 (07090824)
0.37947 (07090824)
0.38159 (07090824)
                                                                                                                                                                                                                  0.35432 (07090824)
     3757601.3
     3757571.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.35995 (07091824)
0.36196 (07091824)
0.36393 (07091824)
0.36585 (07091824)
0.36771 (07091824)
0.36949 (07091824)
0.37121 (07091824)
   3757541.3
                                                                                         0.36618 (07090824)
     3757511.3
                                                                                         0.36772 (07090824)
  0.37965 (07090824)
0.38264 (07090824)
0.38559 (07090824)
0.38850 (07090824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.36881 (07090824)
0.37257 (07090824)
0.37630 (07090824)
0.38001 (07090824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.37289 (07091824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.37451 (07091824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.37606 (07091824)
0.37751 (07091824)
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                                        NODRYDPLT NOWETDPLT
                                                                                                                                                     *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                    ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                              X-COORD (METERS)
-372930.44 372960.44 372990.44
       Y-COORD
                                                               372870.44 372900.44
3757241.3 | 0.37706 (07090824) | 0.38922 (07090824) | 0.39131 (07090824) | 0.38872 (07090824) | 0.37930 (07030724) | 3757211.3 | 0.37754 (07090824) | 0.39087 (07090824) | 0.39404 (07090824) | 0.38727 (07090824) | 0.38131 (07030724) | 3757181.3 | 0.37786 (07090824) | 0.3928 (07090824) | 0.3968 (07090824) | 0.39086 (07090824) | 0.38331 (07030724) | 3757121.3 | 0.37806 (07090824) | 0.39381 (07090824) | 0.39926 (07090824) | 0.39441 (07090824) | 0.38531 (07030724) | 3757121.3 | 0.37817 (07090824) | 0.39518 (07090824) | 0.40177 (07090824) | 0.39792 (07090824) | 0.38728 (07030724) | 3757091.3 | 0.37815 (07090824) | 0.39732 (07090824) | 0.4017 (07090824) | 0.4015 (07090824) | 0.38927 (07030724) | 3757061.3 | 0.37797 (07090824) | 0.39732 (07090824) | 0.40647 (07090824) | 0.4015 (07090824) | 0.38927 (07030724) | 3757031.3 | 0.37764 (07090824) | 0.39932 (07090824) | 0.40863 (07090824) | 0.40798 (07090824) | 0.39704 (07090824) | 3756071.3 | 0.37763 (07090824) | 0.39929 (07090824) | 0.40167 (07090824) | 0.41122 (07090824) | 0.40524 (07090824) | 3756071.3 | 0.37670 (07090824) | 0.39929 (07090824) | 0.41074 (07090824) | 0.41122 (07090824) | 0.40524 (07090824) | 3759071.3 | 0.37670 (07090824) | 0.39999 (07090824) | 0.41074 (07090824) | 0.41122 (07090824) | 0.40524 (07090824) | 3759071.3 | 0.37670 (07090824) | 0.39999 (07090824) | 0.41074 (07090824) | 0.41122 (07090824) | 0.40524 (07090824) | 3759071.3 | 0.37670 (07090824) | 0.39999 (07090824) | 0.41074 (07090824) | 0.41122 (07090824) | 0.40524 (07090824) | 3759071.3 | 0.37670 (07090824) | 0.39999 (07090824) | 0.41127 (07090824) | 0.41129 (07090824) | 0.40524 (07090824) | 3759071.3 | 0.37670 (07090824) | 0.39999 (07090824) | 0.41127 (07090824) | 0.41129 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.40524 (07090824) | 0.
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                                                                                                                                      1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                            INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                                               VOL1 , AREA1 ,
                                                                                                                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                        ** CONC OF PM2.5 IN MICROGRAMS/M**3
      Y-COORD
                                                                                                                                                                                                                                                                                                                       X-COORD (METERS)
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(METERS) | 373020.44 373050.44 373080.44 373110.44
                                                                                                                                                                                                                       44 373140.44
                                                                                          0.30259 (05082924) 0.29240 (05082924)
 3758441.3
                                     0.30680 (05082924)
                                                                                                                                                                                                  0.28223 (07030724)
                                                                                                                                                                                                                                                 0.28809 (07050924)
                                                                                                                                              0.29240 (05082924)
0.29486 (05082924)
0.29733 (05082924)
0.29982 (05082924)
 3758321.3
                                     0.31377
                                                       (05082924)
                                                                                          0.31108 (05082924)
                                                                                                                                               0.30230 (05082924)
                                                                                                                                                                                                    0.29072 (07030724)
0.29287 (07030724)
                                                                                                                                                                                                                                                        0.29267 (07050924)
                                                                                                                                                                                                                                                        0.29383 (07050924)
 3758291.3
                                     0.31547 (05082924)
                                                                                          0.31321 (05082924)
                                                                                                                                               0.30478 (05082924)
3758291.3
3758261.3
3758231.3
3758201.3
3758171.3
3758141.3
                                                                                                                                              0.30478 (05082924)
0.30726 (05082924)
0.30973 (05082924)
0.31220 (05082924)
0.31468 (05082924)
0.31714 (05082924)
                                                                                                                                                                                                                                                       0.29498 (07050924)
0.29498 (07050924)
0.29612 (07050924)
0.29725 (07050924)
0.29838 (07050924)
0.29951 (07050924)
0.30064 (07050924)
                                     0.31715 (05082924)
                                                                                          0.31533 (05082924)
                                                                                                                                                                                                    0.29505 (07030724)
                                                                                                                                                                                                  0.29505 (07030724)
0.29724 (07030724)
0.29946 (07030724)
0.30171 (07030724)
0.30410 (05082924)
0.30690 (05082924)
0.30591 (05082924)
0.31251 (05082924)
0.31534 (05082924)
                                                                                          0.31533 (05082924)
0.31746 (05082924)
0.31957 (05082924)
0.32167 (05082924)
0.32375 (05082924)
                                     0.31882 (05082924)
                                    0.31882 (05082924)
0.32049 (05082924)
0.32215 (05082924)
0.32379 (05082924)
0.32541 (05082924)
0.32700 (05082924)
0.32858 (05082924)
                                                                                                                                              0.31961 (05082924)
0.32208 (05082924)
0.32456 (05082924)
 3758111.3
3758081.3
                                                                                          0.32581 (05082924)
0.32787 (05082924)
                                                                                                                                                                                                                                                       0.30164 (07050924)
0.30178 (07050924)
0.30293 (07050924)
0.30485 (07030724)
0.30723 (07030724)
0.30962 (07030724)
0.31203 (07030724)
0.31448 (07030724)
                                                                                         0.32787 (05082924)
0.32990 (05082924)
0.33193 (05082924)
0.33396 (05082924)
0.33598 (05082924)
0.33799 (05082924)
0.33998 (05082924)
 3758051.3
3758021.3
                                    0.32858 (05082924)
0.33014 (05082924)
0.33167 (05082924)
0.33318 (05082924)
0.33467 (05082924)
0.33614 (05082924)
                                                                                                                                              0.32456 (05082924)
0.32704 (05082924)
0.32952 (05082924)
0.33199 (05082924)
0.33446 (05082924)
0.33691 (05082924)
                                                                                                                                                                                                    0.31534 (05082924)
0.31816 (05082924)
0.32098 (05082924)
0.32380 (05082924)
0.32662 (05082924)
 3757931.3
3757901.3
                                                                                        0.33998 (05082924)
0.34194 (05082924)
0.34387 (05082924)
0.34577 (05082924)
0.34765 (05082924)
0.35141 (05082924)
0.35141 (05082924)
0.35141 (05082924)
0.355327 (05082924)
0.35593 (05082924)
                                                                                                                                                                                                                                                       0.31696 (07030724)

0.31696 (07030724)

0.31947 (07030724)

0.32201 (07030724)

0.32458 (07030724)

0.32718 (07030724)

0.32980 (07030724)

0.33244 (07030724)
 3757871.3
                                     0.33758 (05082924)
                                                                                                                                               0.33933 (05082924)
                                                                                                                                                                                                    0.32946 (05082924)
                                    0.33758 (05082924)
0.33960 (07030724)
0.34177 (07030724)
0.34394 (07030724)
0.34511 (07030724)
0.35047 (07030724)
0.35055 (07030724)
0.35255 (07030724)
                                                                                                                                                                                                  0.32946 (05082924)
0.33230 (05082924)
0.33515 (05082924)
0.33799 (05082924)
0.34083 (05082924)
0.34083 (05082924)
0.3455 (05082924)
0.34936 (05082924)
0.35220 (05082924)
3757871.3
3757841.3
3757811.3
3757781.3
3757751.3
3757721.3
                                                                                                                                              0.34933 (05082924)
0.34173 (05082924)
0.34413 (05082924)
0.34652 (05082924)
0.34892 (05082924)
0.35133 (05082924)
 3757691.3
                                                                                                                                              0.35372 (05082924)
 3757661.3
3757631.3
                                                                                                                                               0.35611 (05082924)
0.35847 (05082924)
                                                                                                                                                                                                                                                        0.33508 (07030724)
0.33814 (05082924)
                                                                                                                                                                                                                                                       0.33814 (05082924)
0.34142 (05082924)
0.34470 (05082924)
0.34799 (05082924)
0.35126 (05082924)
0.35452 (05082924)
 3757601.3
3757571.3
3757541.3
                                     0.35704 (07030724)
0.35704 (07030724)
0.35926 (07030724)
0.36150 (07030724)
0.36375 (07030724)
                                                                                          0.35872 (05082924)
0.36046 (05082924)
0.36216 (05082924)
0.36384 (05082924)
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NODRYDPLT NOWETDPLT
**MODELOPTS: NonDFAULT CONC
                                                                *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL
                                                                        INCLUDING SOURCE(S):
                                                                                                                                 VOL1 , AREA1
                                                                        *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                            X-COORD (METERS)
   Y-COORD
   Y-COORD |
(METERS) |
                        373020.44 373050.44 373080.44 373110.44
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SION 09292 *** *** Site 17 - PM2.5
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*** AERMOD - VERSION 09292 ***
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**MODELOPTS: NonDEAULT CONC
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                                                                                 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                         INCLUDING SOURCE(S):
                                                                                                                                VOL1 , AREA1 ,
                                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                  X-COORD (METERS)
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                                     373170.44 373200.44 373230.44 373260.44
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  **MODELOPTS: NonDFAULT CONC
                                                                                                                                     NODRYDDIA NOWETDDIA
                                                            *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                           VOL1 , AREA1 ,
                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                              ** CONC OF PM2.5 IN MICROGRAMS/M**3
   Y-COORD |
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                                                                                                                                                                                                                                                    PAGE 45
                                                                                                                                     NODRYDPLT NOWETDPLT
                                                             *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                              ** CONC OF PM2.5 IN MICROGRAMS/M**3
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 **MODELOPTS: NonDFAULT CONC
                                                                                                                                     FLAT
NODRYDPLT NOWETDPLT
                                                             *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                           VOL1 , AREA1 ,
                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                               ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                           X-COORD (METERS)
                                     373320.44 373350.44 373380.44 373410.44 373440.44
   (METERS)
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17:26:09
PAGE 47
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                   *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                                                                                                                                                       , AREA1
                                                                                               *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                        X-COORD (METERS)
    Y-COORD
                                                                                                                                                   372680.68 372802.40
                                                  372437.24 372558.96
                                                                                                                                                                                                                                                                                                                                      372924.12
                                        2.48052 (07071924) 3.64192 (06062824) 3.83325 (06062824) 3.30906 (05082524) 2.29832 (06071424) 2.99203 (07071924) 4.41169 (06062824) 3.97997 (06062824) 2.79010 (07021124) 2.72557 (06071424) 3.61952 (07071924) 5.26572 (06062824) 3.24489 (06110124) 3.10132 (07021124) 3.26429 (06071424) 4.38580 (07071924)
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3751610.9
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3.60944 (05073424)
3.60944 (05030524)
5.77292 (06110124)
5.09035 (07091324)
4.99136 (07020624)
6.46113 (07020624)
8.55412 (05122624)
9.09870 (05110924)
11.17182m(05012424)
10.32102 (05012524)
9.33414 (0602124)
9.33414 (05012524)
9.34171 (06111624)
8.55620 (07123024)
8.52620 (07123024)
9.24348 (05111224)
9.24348 (05111224)
9.24348 (05111224)
9.24398 (05100924)
6.99398 (05100924)
6.99398 (05100924)
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5.80161 (06062824)

6.24172 (06071424)

6.24172 (06110124)

7.25386 (06110124)

9.29744 (07030624)

9.29744 (07030624)

15.65264m(05012424)

16.66428 (06012524)

14.93941 (05121124)

14.35025 (07123024)

14.13420 (05111224)

12.12553 (05100924)

9.96951 (05122924)
                                               3.24489 (06110124)
4.58400 (06110124)
3.90941 (07091324)
4.53265 (07020624)
4.38916 (07030624)
5.01450 (05122624)
5.75423 (05122624)
6.54656 (06110924)
7.42680m(05012424)
6.6803 (06012524)
6.70486c (06111824)
6.91987 (06020124)
                                                                                                                   3.10132 (07021124)
4.47743 (06110124)
4.62632 (06110124)
4.73103 (07091324)
4.65840 (07020624)
5.73132 (05122624)
6.94751 (05122624)
7.65061 (06110924)
9.19118m(05012424)
9.09501 (06012524)
7.82404 (06020124)
8.02725 (06120224)
                                                                                                                                                                                                                                                              4.38580 (07071924)
3.95769 (06071424)
4.28895 (05030524)
6.80883 (06110124)
6.56022 (07091324)
7.81276 (07020624)
  3751499.2
 3751499.2
3751387.6
3751276.0
3751164.4
 3751052.7
                                                                                                                                                                                                                                                           7.81276 (07020524)
7.65982 (07030524)
10.75955 (05122624)
11.24523m(05012424)
13.09791m(05012424)
11.45727c(06111824)
11.47775 (06122024)
11.07941 (07123024)
11.33517 (05111224)
 3750941.1
  3750829.5
 3750629.3
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3750606.2
3750494.6
  3750382.9
3750382.9 6.70486c(U611824) 7.82404 (U6020124) 3750271.3 6.91987 (U6020124) 8.02725 (U612024) 3750159.7 6.64445 (U6122024) 8.31122 (U6111624) 3750048.1 6.77456 (U6111624) 7.46641 (U6111224) 3749936.4 6.65073 (U6111624) 7.65525 (U6111624) 3749931.2 5.35337 (U6111224) 6.36978 (U6100924) 3749731.2 5.35337 (U6100924) 6.08999 (U6100924) *** AERMOD - VERSION 09292 *** *** Site 17 - PM2.5
                                                                                                                                                                                                                                                                                                                                  12.12553 (05100924)
9.96951 (05122924)
8.27548 (05122924)
5.82762 (06030424)
4.90045 (05112824)
10/26/10
17:26:09
                                                                                                                                                                                                                                                                9 53914 (05100924)
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8.08124 (05100924)
6.98175 (05122924)
5.48986 (05122924)
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                                                                                                                                                                                                                                                                                                                                                 PAGE 48
                                                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
**MODELOPTS: NonDEAULT CONC
                                                                                   *** THE 1ST HIGHEST 24-HR F
INCLUDING SOURCE(S):
                                                                                                               1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                       VOL1 , AREA1 ,
                                                                                                 *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                   373045.84 373167.56 373289.28 3
                                                                                                                                                                                                                                                                373411.00
                                                                                                                                                                                                                                                                                                                                    373532.72
                                       3751499.2
 3751387.6
  3751276.0
  3751164.4
  3750717.8
  3750606.2
 3750494.6
| 3750494.6 | 19.90386 (05121124) | 25.92405 (05110524) | 3750382.9 | 18.11544 (05110524) | 22.21921 (05100924) | 3750271.3 | 15.98884 (05100924) | 16.97751 (05122924) | 3750159.7 | 12.97768 (05122924) | 10.17046 (05122924) | 3750048.1 | 9.52113 (05122924) | 8.89455 (06120424) | 3749936.4 | 6.72641 (05112824) | 7.88806 (06120424) | 3749932.2 | 5.56988 (06120424) | 6.45417 (06120424) | 3749713.2 | 5.56988 (06120424) | 5.24415 (05020424) | *** AERMOD - VERSION 09292 *** *** Site 17 - PM2.5
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                   *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                               *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                            ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                   X-COORD (METERS)
373654.44 373776.16 373897.88 374019.60 374141.32
                                      4.94302 (07083124) 5.85725 (07083124) 5.19782 (07083124) 4.75470 (05052624) 4.62602 (07071524) 5.89131 (07083124) 6.86793 (07083124) 5.48405 (07083124) 5.03080 (05052624) 6.42059 (07071524) 7.18238 (07083124) 8.03535 (07083124) 6.30012 (05052624) 5.92270 (07071524) 7.17905 (07071524) 8.99000 (07083124) 9.33831 (07083124) 7.53817 (05052624) 8.62292 (07071524) 6.05412 (07071524) 11.56338 (07083124) 10.70128 (07083124) 8.40295 (05052624) 9.62071 (07071524) 6.54699 (07092824) 15.25901 (07083124) 11.87669 (07083124) 12.40592 (07071524) 7.87261 (07031824) 9.09932 (07092824) 15.25901 (07083124) 14.6427 (05052624) 14.17306 (07071524) 7.87261 (07031824) 9.09932 (07092824) 28.48725 (07083124) 20.44019 (07071524) 17.67289 (07092824) 21.49826 (06101024) 22.31543 (06101024) 41.75834 (07083124) 70.37288 (06101024) 36.59117 (06101024) 29.66829 (06101024) 17.51875 (06052024) 28.857133 (07111824) 63.09180 (05102324) 33.36010 (05102324) 20.86328 (05102324) 13.40755 (05102324) 288.57133 (07111824) 63.09180 (05102324) 33.36010 (05102324) 20.86328 (05102324) 13.40755 (05102324)
3751945.8 |
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28.48725 (07083124)
41.75834 (07083124)
79.81491 (07083124)
288.57133 (07111824)
 3751499.2
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 3750941.1 |
3750829.5 |
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29.93544 (06060724)
17.44753 (05070424)
13.07719 (05012924)
8.72427 (05040924)
7.41721 (07021324)
6.61727 (05120324)
4.80935 (05120324)
4.80935 (05120324)
3.90042 (05091724)
3.87806 (05091724)
                                                                   261.01626 (07013024) 55.32695 (06051424) 62.10177 (07081524) 25.71321 (05012924) 36.38061 (07081524) 15.48664 (05061324) 20.77976 (07081524) 10.43317 (05120324) 11.26146 (07081524) 7.7859 (05120324) 14.78050 (07081524) 6.25933 (07120824) 12.90632 (07081524) 4.97179 (07120824) 11.42237 (07081524) 4.97179 (07120824) 10.20996 (07081524) 4.97179 (07120824) 20.20996 (07081524) 4.97179 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97237 (07120824) 20.20996 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.97296 (07081524) 4.
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12.56204 (07110724)

11.13153 (06051424)

8.38599 (05012924)

6.46918 (07092724)

5.41845 (07090824)

4.76027 (07021324)

4.25015 (05081524)

4.09981 (05081524)

3.31465 (05120324)
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11.37667 (07110724)
9.01484 (05070224)
8.44594 (06051424)
6.20357 (05082324)
5.26371 (07092724)
4.47745 (06071724)
  3750717.8 |
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    3750494.6
    3750382.9
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3.38091 (07090824)
3.09009 (05081524)
    3749936.4
   3749824.8
   3749713.2 | 10.20996 (0708
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10/26/10
17:26:09
PAGE 50
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                                                           *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                                                                                                               , AREA1
                                                                                                                                                              *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                      X-COORD (METERS)
        Y-COORD
                                                                                    374263.04 374384.76 374506.48 374628.20 374749.92
                                                                              5.61323 (07071524) 3.15384 (07071524) 3.08478 (07092824) 3.75159 (07092824) 3.502216 (07071524) 3.33408 (07031824) 4.31092 (07092824) 3.59740 (07092824) 3.83003 (07031824) 4.94194 (07092824) 4.42260 (07092824) 4.50732 (06101024) 5.66791 (07092824) 5.51551 (07092824) 5.62893 (06101024) 7.14323 (06101024) 6.99872 (07092824) 7.24898 (06101024) 9.05514 (06101024) 8.92703 (06101024) 9.73632 (06101024) 11.90185 (06101024) 11.10208 (06101024) 8.92703 (06101024) 15.43754 (06101024) 13.57613 (06101024) 9.28802 (06101024) 7.98329 (051002024) 15.43754 (06101024) 12.30166 (05081824) 10.3005081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (05081824) 12.30166 (050
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5.79923 (06101024)
7.14358 (06101024)
   3751834.1
   3751722.5
3751610.9
3751722.5 3.83003 (07031824) 4.94194 (07092824) 3751610.9 5.66791 (07092824) 5.51551 (07092824) 3751499.2 6.99872 (07092824) 7.24898 (06101024) 3751276.0 9.73632 (06101024) 11.90185 (06101024) 3751276.0 16.2003 (06101024) 13.57613 (06101024) 3751164.4 15.43754 (06101024) 13.57613 (06101024) 3751052.7 13.50040 (05081824) 21.30186 (05081824) 3750941.1 13.39125 (05081824) 9.94991 (06050424) 3750941.1 13.39125 (05081824) 9.94991 (06050424) 3750717.8 11.19280 (07051524) 9.17058 (07051524) 375060.2 9.29300 (07110724) 5.5872 (06060724) 375060.2 9.29300 (07110724) 6.83158 (07110724) 3750382.9 6.27481 (05070224) 6.83158 (07110724) 3750382.9 6.27481 (05070224) 5.95853 (05070224) 375071.3 6.38685 (06051424) 5.35573 (06051424) 3750159.7 4.81656 (05082324) 5.05972 (05082324) 3750048.1 4.16981 (07092724) 3.85517 (05082324) 3750048.1 4.16981 (07092724) 3.85517 (05082324) 3749936.4 8 4.67900 (07090824) 3.45225 (07092724) 3749934.8 4.76900 (07090824) 3.45225 (07092724) 3749713.2 4.38307 (07090824) 3.65509 (07090824) *** AERMOD - VERSION 09292 *** Site 17 - PM2.5
                                                                                                                                                                                                                                                                                                  4.42200 (0.092824)

5.62893 (06101024)

9.05614 (06101024)

9.28802 (06101024)

9.28802 (06101024)

8.60812 (05090224)

10.32049 (05081824)

5.85902 (07051524)

7.59673 (07051524)

7.59673 (07051524)

6.16931 (06060724)

6.32966 (07110724)

4.46831 (05070224)

4.66077 (05070224)

4.72013 (06051424)

4.72013 (06051424)

4.72013 (06051424)

3.16128 (05082324)

2.54183 (05012924)

3.12605 (07092724)
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7.14323 (05101024)
8.86527 (05101024)
8.86527 (05101024)
7.00392 (06052024)
7.98329 (05090224)
8.23473 (05081824)
7.15293 (06050424)
4.90819 (07051524)
6.37143 (07051524)
6.37143 (07051524)
5.17637 (06060724)
5.27065 (07110724)
4.38277 (07110724)
4.24623 (05070224)
3.38967 (05070224)
3.67261 (05082324)
2.66633 (07013024)
2.17408 (05012924)
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7.14358 (05101024)
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6.20429 (06101024)
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6.31558 (05081824)
6.07238 (05050424)
4.19391 (07051524)
4.45339 (07051524)
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4.50310 (07110724)
3.28361 (05070224)
3.28361 (05070224)
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3.19529 (05051424)
3.16032 (05082324)
2.31406 (07013024)
10/26/10
17:26:09
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAGE 51
                                                                                                                                                                                                                                                                                                                FLAT
NODRYDPLT NOWETDPLT
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                           *** THE 1ST HIGHEST 24-HR A INCLUDING SOURCE(S):
                                                                                                                                                                                          1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                                                                                                       VOL1 , AREA1 ,
                                                                                                                                                                  *** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                                                                         X-COORD (METERS)
        (METERS)
                                                            374871.64
                                                                           3.08775 (06101024)
4.81077 (06101024)
5.88667 (06101024)
6.62762 (06101024)
                                                                               6.62762 (06101024)

6.33669 (06101024)

5.09556 (06052024)

5.88782 (05090224)

6.71748 (05081824)

4.97708 (06050424)

5.14982 (06050424)

3.63955 (07051524)

4.65585 (07051524)
   3751499.2
   3751387.6
3751276.0
   3751164.4
3751052.7
3750941.1
3750829.5
    3750717.8
    3750606.2
                                                                                   4.07306 (07051524)
3.40317 (07090724)
   3750494.6
 3750494.6 3.40317 (07090724)
3750329.9 4.12341 (07110724)
3750271.3 2.93394 (07110724)
3750159.7 3.19597 (05070224)
3750048.1 2.80022 (05070224)
3749936.4 3.02896 (06051424)
37499324.8 2.78104 (06051424)
3749713.2 2.73924 (05082324)
*** AERMOD - VERSION 09292 *** *** Site 17 - PM2.5
   **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                                                                                          *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                INCLUDING SOURCE(S):
                                                                                                                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                                             CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

8.96686 (06122024) 373224.49 3750294.52 16.72962 (05122924)
10.08487 (05120324) 374411.43 3750290.48 4.72690 (05070224)
18.25735 (07071524) 373822.00 3751416.86 10.69970 (05052624)
10.34600 (07092824)
*** Site 17 - PM2.5
                  X-COORD (M) Y-COORD (M)

372647.17 3750290.48
373809.89 3750290.48
373842.19 3751158.48
374060.20 3751340.15
   374060.20 3751340.15
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10/26/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17:26:09
                                                                                                                                                                   *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***
```

** CONC OF PM2.5 IN MICROGRAMS/M**3 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID 198.30915 AT (373532.72, 3750829.46, 190.57969 AT (373532.72, 3750717.83, 187.20675 AT (373654.44, 3750829.46, 163.17150 AT (373654.44, 3750717.83, 29.78018 AT (373411.00, 3750717.83, 25.14665 AT (373654.44, 3750941.09, 18.93243 AT (373776.16, 3750829.46, 18.87453 AT (373776.16, 3750829.46, 18.686208 AT (373776.16, 3750941.09, 16.86208 AT (373776.16, 3750941.09, 16.60139 AT (373411.00, 3750606.20, 1ST HIGHEST VALUE IS 2ND HIGHEST VALUE IS 3RD HIGHEST VALUE IS 10.00, 10.00, 10.00, 10.00, 0.00) UCART2 0.00) UCART2 3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
7TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 0.00) IICART2 0.00) 0.00) 0.00) 0.00) UCART2 UCART2 UCART2 UCART2 0.00) *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 17 - PM2.5 10/26/10 17:26:09 PAGE 54 **MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE SUMMARY OF HIGHEST 24-HR RESULTS *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID GROUP ID AVERAGE CONC ALL HIGH 1ST HIGH VALUE IS 302.80544 ON 05120824: AT (373532.72, 3750717.83, 10.00, 10.00, 0.00) GC UCART2 *** RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART **MODELOPTs: NonDFAULT CONC NODRYDPLT NOWETDPLT *** Message Summary : AERMOD Model Execution *** ----- Summary of Total Messages -----A Total of 0 Fatal Error Message(s) A Total of A Total of 0 Warning Message(s) 152 Informational Message(s) A Total of 26280 Hours Were Processed A Total of 15 Calm Hours Identified 137 Missing Hours Identified (0.52 Percent) A Total of ******* FATAL ERROR MESSAGES *******

*** NONE *** ****** WARNING MESSAGES ****** *** NONE *** ********* *** AERMOD Finishes Successfully ***

Title : Crenshaw - Operational Emissions (PM10)

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2008/09/03 10:45:48

Scen Year: 2030 -- All model years in the range 1986 to 2030 selected

Season : Annual

Area : Los Angeles (SC)

Year: 2030 -- Model Years 1986 to 2030 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

Los Angeles (SC) Los Angeles (SC) Los Angeles (SC)

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Total Organic Gases Temperature: 63F Relative Humidity: 66%

Speed MPH LDA LDT N

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.021 0.040 0.058 0.314 0.553 2.387 0.060

Pollutant Name: Carbon Monoxide Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.670 1.228 1.397 1.552 4.086 15.388 1.059

Pollutant Name: Oxides of Nitrogen Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.046 0.099 0.185 2.425 7.416 1.039 0.230

Pollutant Name: Sulfur Dioxide Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

 $0.004 \qquad 0.005 \qquad 0.007 \qquad 0.017 \qquad 0.017 \qquad 0.002 \qquad 0.005$

Pollutant Name: PM10 Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.015 0.035 0.035 0.103 0.158 0.016 0.029

Pollutant Name: PM10 - Tire Wear Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.008 0.008 0.009 0.025 0.010 0.004 0.009

Pollutant Name: PM10 - Brake Wear Temperature: 63F Relative Humidity: 66%

Speed

MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.013 0.013 0.013 0.021 0.013 0.006 0.013

Title : Crenshaw - Operational Emissions (PM2.5)

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2008/09/03 10:48:07

Scen Year: 2030 -- All model years in the range 1986 to 2030 selected

Season : Annual

Area : Los Angeles (SC)

At ea • 105 Angeres (50)

Year: 2030 -- Model Years 1986 to 2030 Inclusive -- Annual

Emfac2007 Emission Factors: V2.3 Nov 1 2006

Los Angeles (SC) Los Angeles (SC) Los Angeles (SC)

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Total Organic Gases Temperature: 63F Relative Humidity: 66%

Speed
MPH LDA LDT MDT HDT UBUS MCY ALL

23 0.021 0.040 0.058 0.314 0.553 2.387 0.060

Pollutant Name: Carbon Monoxide Temperature: 63F Relative Humidity: 66%

Speed MPH LDA LDT MDT HDT UBUS MCY ALL 2.3 0.670 1.228 1.397 1.552 4.086 15.388 1.059

Pollutant Name: Oxides of Nitrogen Temperature: 63F Relative Humidity: 66%

Speed MPH LDA LDT MDT HDT UBUS MCY ALL 0.046 0.099 0.185 2.425 7.416 0.230 1.039

Pollutant Name: Sulfur Dioxide Temperature: 63F Relative Humidity: 66%

Speed LDT MDT UBUS MPH LDA HDT MCY ALL 23 0.004 0.005 0.007 0.017 0.017 0.002 0.005

Pollutant Name: PM2.5 Temperature: 63F Relative Humidity: 66%

Speed MPH LDA LDT MDT HDT UBUS MCY ALL 0.014 0.032 0.032 0.095 0.012 0.027 0.146

Pollutant Name: PM2.5 - Tire Wear Temperature: 63F Relative Humidity: 66%

Speed LDT LDA HDT UBUS MCY MPH MDT ALL 23 0.002 0.002 0.002 0.006 0.002 0.001 0.002

Pollutant Name: PM2.5 - Brake Wear Temperature: 63F Relative Humidity: 66%

Speed MPH LDA LDT MDT HDT UBUS MCY ALL 23 0.005 0.005 0.005 0.009 0.005 0.003 0.006

```
**
** AERMOD Input Produced by:

* AERMOD View Ver. 6.7.1

* Lakes Environmental Software Inc.

* Date: 10/26/2010

* File: C:\Documents and Settings\jbailey\Desktop\Site 22\CO.ADI

**
 .....
** AERMOD Control Pathway
CO STARTING
     STARTING
TITLEONE Site 22 - CO
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 8
URBANOPT 9862049
     POLLUTID CO
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LoCATION VOLI VOLUME 372838.811 3751633.015 0.0

** DESCRSRC Equipment

** Source Parameters **
SKCPARM VOLI 0.1118 4.100 27.674 1.163
URBANSKC VOLI
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED

**
 **************
RE STARTING
    GRIDCART UCART1 STA
                                 XYINC 371513.98 21 138.69 3750177.52 21 129.19
     GRIDCART UCART1 END
DESCRREC "" ""
GRIDCART UCART1 END

** DESCREC**
372687.37 3751957.29
DISCCART 372914.88 3751945.38
DISCCART 373051.97 3751954.38
DISCCART 373154.06 3752021.46
DISCCART 373157.94 3752047.71
DISCCART 37279.49 3752047.71
DISCCART 37279.49 3751356.42
DISCCART 37279.96 3751359.34
DISCCART 37279.96 3751359.34
DISCCART 37291.97 3751359.34
DISCCART 37291.97 3751496.43
RE FINISHD
DISCCART
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DISCCART
RE FINISHED
** AERMOD Meteorology Pathway
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFFASE 10 METERS
ME FINISHED
**
 **
** AERMOD Output Pathway
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED
  17:49:43
  **MODELOPTS: NonDFAULT CONC
                                                                                                           NODRYDPLT NOWETDPLT
        *** MODEL SETUP OPTIONS SUMMARY ***
  **Model Is Setup For Calculation of Average CONCentration Values.
      -- DEPOSITION LOGIC --
  **NO GAS DEPOSITION DATA Provided.

**NO PARTICLE DEPOSITION DATA Provided.

**MODEL USES NO DRY DEPLETION. DRYDPLT = F

**Model USES NO WET DEPLETION. WETDPLT = F
  **Model Uses URBAN Dispersion Algorithm for the SBL for $\tt 1 Source(s)$, for Total of <math display="inline">\tt 1 Urban Area(s)$:
```

```
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m
**Model Allows User-Specified Options:
        Allows User-Specified Options.

1. Stack-tip Downwash.

2. Model Assumes Receptors on FLAT Terrain.

3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.

    No Exponential Decay.
    Urban Roughness Length of 1.0 Meter Used.

**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
**This Run Includes: 1 Source(s); 1 Source Group(s); and 450 Receptor(s)
**The Model Assumes A Pollutant Type of: CO
**Model Set To Continue RUNning After the Setup Testing.
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000 Emission Units = GRAWS/SEC ; Emission Rate Unit Output Units = PPM
                                                                                                           Rot. Angle
                                                                                                                           0.0
                                                                                 Emission Rate Unit Factor =
                                                                                                                  873.20
**Approximate Storage Requirements of Model = 3.6 MB of RAM.
17:49:43
                                                                                                                           PAGE 2
**MODELOPTS: NonDFAULT CONC
                                                                   FLAT
                                                                   NODRYDPLT NOWETDPLT
                                                  *** VOLUME SOURCE DATA ***
            NUMBER EMISSION RATE
PART. (USER UNITS) X Y ELBV. HEIGHT SY SZ SOURCE SCALAR VARY
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY
    SOURCE
*** Site 22 - CO
***
                                                                                                                           10/26/10
                                                                                                                           17:49:43
                                                                   FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                           *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID
                                                          SOURCE IDS
10/26/10
                                                                                                                            17:49:43
                                                                                                                            PAGE
**MODELOPTS: NonDFAULT CONC
                                                                   NODRYDPLT NOWETDPLT
                                         *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                  *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                         *** X-COORDINATES OF GRID ***
      371514.0, 371652.7, 371791.4, 371930.1, 372068.7, 372207.4, 372346.1, 372484.8, 372623.5, 372762.2, 372900.9, 373039.6, 373178.3, 373317.0, 373455.6, 373594.3, 373733.0, 373871.7, 374010.4, 374149.1,
       374287.8.
                                          *** Y-COORDINATES OF GRID ***
                                                     (METERS)
     3750177.5, 3750306.7, 3750435.9, 3750565.1, 3750694.3, 3750823.5, 3750952.7, 3751081.9, 3751211.0, 3751340.2, 3751469.4, 3751598.6, 3751727.8, 3751857.0, 3751986.2, 3752115.4, 3752244.6, 3752373.8, 3752502.9, 3752632.1,
10/26/10
                                                                                                                           17:49:43
PAGE 5
**MODELOPTs: NonDFAULT CONC
                                                                   NODRYDPLT NOWETDPLT
                                            *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
0.0);
                                                                                                                10.0,
                                                                                                                             0.0);
                                                                                                                 10.0.
                                                                                                                             0.0);
                                                                                                                10.0,
                                                                                                                         10/26/10
17:49:43
                                                                                                                           PAGE
**MODELOPTS: NonDFAULT CONC
                                                                 FLAT
                                                                  NODRYDPIAT NOWETDPIAT
                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)
```

```
NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                                           *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
 17:49:43
                                                                                                                                                                                                                                                                          PAGE
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                FLAT
                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                            *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
     Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SPC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SPC
     Profile file: L:\Library \( \alpha \) Surface format: FREE Profile format: FREE Surface station no.:

Name: UNKNOWN Year: 2005
                                                                    0 Upper air station no.:
Name: UNKN
                                                                                                                                                     Year:
HT REF TA
                                                                                                                                                                                                                                                  281.4
                                                                                                                                                                                                                                                 281.4
                                        05 01 01
                                                                                                                     11.
                                                                                                                                          3.4
                                                                                                                                                    0.26
                                                                                                                                                                     1.00
                                                                                                                                                                                    1.00
                                                                                                                                                                                                       0.50
                                                                                                                                                                                                                      38.
                                                                                                                                                                                                                                                 285.4
 05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
                                                                                                                                                                                    1.00
1.00
1.00
1.00
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                                                                                                                                                     0.26
                                                                                                                                                                     1.00
                                                                                                                                                                                                       0.40
                                                                                                                                                                                                                    261.
                                                                                                                                                                                                                                                  284.9
                                                                                                                                                    0.26
0.26
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0.26
                         1 20
1 21
1 22
1 23
1 24
                                                                                                                                                                                                       0.80
 First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV 05 01 01 01 01 5.5 0 -999. 0 99.00 282.6 99.0 -99.00 -99.00 05 01 01 01 01 9.1 1 52. 1.10 -999.0 99.0 99.0 -99.00 -99.00
 10/26/10
                                                                                                                                                                                                                                                                          17:49:43
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                NODRYDPLT NOWETDPLT
                                                                  *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1
                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                            X-COORD (METERS)
371513.98 371652.67 371791.36
    Y-COORD
   Y-COORD (METERS)
                                                                                                                                                                                                                                372068.74
                                                                                                                    7 371791.36 371930.05

        0.00652 (05010409)
        0.00481 (05010409)
        0.00651 (06090407)
        0.00966 (06090407)
        0.00652 (06090407)

        0.00589 (07090907)
        0.00709 (05010409)
        0.00530 (05010409)
        0.00804 (06090407)
        0.01023 (06090407)

        0.00966 (07090907)
        0.00751 (07090907)
        0.00774 (05010409)
        0.00592 (05010409)
        0.00994 (06090407)

        0.00670 (07090907)
        0.00968 (07090907)
        0.00945 (07090907)
        0.00845 (05010409)
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        0.00845 (06090102)</td
  3752632.1
  3752502.9
3752373.8
  3752244.6
                                                                                      0.00508 (07090907)
0.00347 (06090102)
0.00376 (06121509)
0.00392 (07091603)
0.00388 (07110908)
0.00635 (07110908)
0.00635 (070110908)
0.00635 (07030608)
0.00635 (07030608)
0.00496 (07030608)
0.00496 (07030608)
0.00496 (06110508)
0.00628 (06053107)
0.00525 (07070106)
                                      0.00378 (07110908)
0.00378 (07110908)
0.00590 (07110908)
0.00548 (06070206)
0.00439 (06041307)
0.00392 (07030608)
0.00336 (07030608)
0.00356 (07030608)
0.00460 (06053107)
0.00583 (07070106)
  3751727.8
                                                                                                                                                                                                                                                              0.00832 (070181605)

0.00830 (07110908)

0.00802 (07082903)

0.00773 (07030608)

0.00595 (06111722)

0.01048 (07070106)

0.01404 (07070106)

0.00892 (07070106)
  3751598.6
  3751469.4
 3751469.4
3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
                                                                                                                                                  0.00708 (06070206)
0.00510 (06041307)
0.00637 (07030608)
0.00649 (06053107)
0.00649 (06053107)
0.00999 (07070106)
0.01116 (07070106)
                                                                                                                                                                                                        0.00751 (06070206)
0.00560 (07030608)
0.00611 (07030608)
0.00620 (06053107)
0.01035 (07070106)
0.01242 (07070106)
0.00826 (07070106)
  3750694.3
                                                                                                                                                                                                                                                               0.00622 (06090207)
 375094.3 | 0.0098 (07070106) | 0.0095 (07070106) | 375035.1 | 0.0098 (07070106) | 0.01013 (07070106) | 375035.9 | 0.00929 (07070106) | 0.00718 (07070106) | 375036.7 | 0.00673 (07070106) | 0.00619 (06090207) | 3750177.5 | 0.00592 (06090207) | 0.00399 (06090207) | *** AERMOD - VERSION 09292 *** *** Site 22 - CO
                                                                                                                                                  0.00769 (07070106)
0.00638 (06090207)
0.00359 (06090207)
0.00235 (07091007)
                                                                                                                                                                                                         0.00642 (06090207)
                                                                                                                                                                                                                                                               0.00316 (05050324)
                                                                                                                                                                                                         0.00642 (06090207)
0.00302 (06090207)
0.00345 (07091007)
0.00453 (06090107)
***
                                                                                                                                                                                                                                                               0.00471 (06090107
                                                                                                                                                                                                                                                              0.00553 (06090107)
0.00553 (06090107)
0.00459 (06090107)
10/26/10
17:49:43
                                                                                                                                                                                                                                                                          PAGE
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                 NODRYDPLT NOWETDPLT
                                                                  *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                        ** CONC OF CO
                                                                                                                            IN PPM
```

```
Y-COORD |
                                                                                                                                                                                             X-COORD (METERS)
   (METERS) | 372207.43 372346.12 372484.81 372623.50 372762.19
                                         3752761.3 |
3752632.1 |
3752502.9 |
 3752373.8
                                                                                                                                                                                                                                                                                                                                                                 0.00746 (07090806)
0.00958 (07072704)
0.01237 (05052102)
0.01647 (05052102)
0.03020 (07062501)
0.06012 (06090407)
0.08210 (06060203)
0.04213 (07072705)
0.02213 (06041123)
0.01646 (07081701)
0.01130 (07081701)
0.01053 (05082207)
0.00723 (06082207)
0.00722 (06082207)
0.00722 (06082207)
 3752244.6
                                                                                                                                                                                                         0.01167 (06042607)

0.01579 (06090407)

0.01579 (06090407)

0.02106 (07090907)

0.01797 (06100301)

0.01798 (07012300)

0.01658 (07012320)

0.02351 (07070106)

0.01039 (06090207)

0.01002 (07070203)

0.00794 (06041124)

0.00794 (07032008)

0.005576 (07032008)

0.005576 (07032008)
 3752244.6
3752115.4
3751986.2
3751857.0
3751727.8
  3751598.6
  3751469.4
                                                                                                                                 0.01036 (05043001)
  3751340.2
                                                      0.00804 (07012320)
                                                                                                                                                                                                                                                                                          0.01735 (05083004)
                                                    0.00804 (07012320)
0.01010 (07070106)
0.01618 (07070106)
0.01000 (06090207)
0.00563 (06090207)
0.00482 (07091007)
                                                                                                                                0.01036 (05043001)
0.01914 (07070106)
0.01129 (06090207)
0.00585 (05050324)
0.00734 (06090107)
0.00628 (06090107)
                                                                                                                                                                                                                                                                                        0.01735 (05083004)
0.01435 (07072705)
0.01100 (06090606)
0.00774 (05042905)
0.00621 (06041123)
0.00489 (07081701)
  3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
3750355.1 0.00633 (06090107) 0.00661 (05102108) 3750365.1 0.00633 (06090107) 0.00661 (05102108) 37503435.9 0.00529 (06090107) 0.00579 (07032008) 3750306.7 0.00567 (05102108) 0.00442 (06072607) 3750177.5 0.00536 (07032008) 0.00421 (06061607) **** AERMOD - VERSION 09292 *** *** Site 22 - CO
                                                                                                                                                                                               0.00522 (06061607)
0.00445 (06061607)
0.00355 (06061607)
0.00292 (06070106)
                                                                                                                                                                                                                                                                                          0.00482 (07081701)
                                                                                                                                                                                                                                                                                                                                                                    0.00684 (06082207)
                                                                                                                                                                                                                                                                                                                                                                   0.00684 (06082207)
0.00646 (06082207)
0.00609 (06082207)
0.00573 (06082207)
10/26/10
17:49:43
                                                                                                                                                                                                                                                                                          0.00438 (07081701)
                                                                                                                                                                                                                                                                                                                                                                                   PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                   FLAT
NODRYDPLT NOWETDPLT
                                                                                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                     ** CONC OF CO IN PPM
                                                                                                                                                                                        X-COORD (METERS)
                                     372900.88 373039.57 373178.26 373316.95 373455.64

        0.00408 (07042507)
        0.00369 (07040123)
        0.00328 (07122005)
        0.00521 (05082807)
        0.01047 (05082807)

        0.00471 (07091802)
        0.00409 (06082107)
        0.00457 (07062524)
        0.00931 (05082807)
        0.00580 (07091802)
        0.00477 (06082107)
        0.00537 (07062524)
        0.01248 (05082807)
        0.00572 (05082807)

        0.00725 (07091802)
        0.00619 (07122005)
        0.01065 (05082807)
        0.01057 (05082807)
        0.00428 (06090306)

        0.00920 (07091802)
        0.00861 (07062524)
        0.01565 (05082807)
        0.00550 (07070124)
        0.00610 (06102522)

        0.1229 (07040123)
        0.01215 (05082807)
        0.01122 (05082807)
        0.00818 (06102522)
        0.01538 (05082707)

        0.01736 (07040123)
        0.02131 (05082807)
        0.01232 (05082707)
        0.01235 (07081802)
        0.01632 (05082707)
        0.01235 (05082707)
        0.01235 (05082707)
        0.01235 (05082707)
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        0.01235 (05082707)
        0.01235 (05082707)
        0.01255 (05082807)
        0.01125 (05082707)
        0.01235 (05082707)
        0.01255 (05082807)
        0.01125 (05082707)
        0.01255 (05082807)
        0.01155 (05082807)
        0.01155 (05082807)
        0.01155 (05082807)
        0.01680 (05071903)
        0.01525 (05082707)
        0.01525 (05082807)
        0.01155 (05082807)</t
 3752761.3 L
3752761.3
3752632.1
3752502.9
3752373.8
3752244.6
3752115.4
 3751986.2
 3751857.0
 3751857.0
3751727.8
3751598.6
3751469.4
3751340.2
  3751211.0
  3751081.9
3750952.7
                                                                                                                                0.00610 (05091702)
0.00517 (07103023)
0.00422 (07103023)
 3750823.5
3750823.5 | 0.00638 (05042102) 0.00610 (0
3750694.3 | 0.00536 (05042102) 0.00517 (0
3750656.1 | 0.00456 (05042102) 0.00422 (0
3750435.9 | 0.00392 (05042102) 0.00223 (0
3750306.7 | 0.00392 (05042102) 0.00261 (0
3750177.5 | 0.00298 (05042102) 0.00234 (0
*** AERMOD - VERSION 09292 *** *** Site 22 - CO
                                                                                                                                                                                                 0.00859 (05102308)
0.00533 (07051822)
0.00400 (07051822)
0.00359 (05091702)
0.00317 (05091702)
0.00275 (07103023)
                                                                                                                                 0.00329 (07103023)
0.00261 (06052407)
                                                                                                                                                                                                                                                                                         0.00529 (05102308)
                                                                                                                                                                                                                                                                                                                                                                    0.00752 (05102308
                                                                                                                                                                                                                                                                                         0.00335 (07051822)
                                                                                                                                                                                                                                                                                                                                                                    0.00718 (05102308)
                                                                                                                                 0.00234 (06052407)
                                                                                                                                                                                                                                                                                                                                                                    0.00546 (05102308)
                                                                                                                                                                                                                                                                                       0.00271 (07051822)
                                                                                                                                                                                                                                                                                                                                                                            10/26/10
17:49:43
                                                                                                                                                                                                         FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                                                            *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1
                                                                                                          *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                     X-COORD (METERS)
373594.33 373733.02 373871.71 374010.40
    Y-COORD
   Y-COORD |
(METERS) |
                                                                                                                                                                                                                                                                                                                                                                    374149.09
                                          3752632.1
3752502.9
3752373.8
                                                                                                                                                                                                                                                                                                                                                                   0.00581 (03082707)

0.00580 (06081407)

0.00462 (06073107)

0.00278 (07031509)

0.00345 (05091722)
  3752244.6
  3752115.4
 3751727.8
                                                                                                                                                                                                                                                                                                                                                                    0.00353 (06061524)
 3751598.6
                                                                                                                                                                                                                                                                                                                                                                    0.00414 (07092707)
0.00448 (07031508)
  3751469.4
3751469.4
3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
                                                                                                                                                                                                                                                                                                                                                                   0.00448 (07031508)
0.00776 (07031508)
0.00332 (07031508)
0.00302 (07081201)
0.00331 (07091107)
0.00682 (07091107)
  3750694.3
                                                                                                                                                                                                                                                                                                                                                                    0.00573 (07091107)
375094.3 | 0.0094.0 | 0.009807 | 0.00647 (07090807) | 3750435.9 | 0.01197 (07090807) | 0.01047 (07090807) | 3750306.7 | 0.00817 (07090807) | 0.01166 (07090807) | 3750175.5 | 0.00645 (05102308) | 0.00975 (07090807) | 0.01848 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0.00648 | 0.00975 (07090807) | 0
                                                                                                                                                                                                            0.00662 (06081607)
0.00444 (07090807)
0.00803 (07090807)
0.01033 (07090807)
                                                                                                                                                                                                                                                                                         0.00649 (06081607)
                                                                                                                                                                                                                                                                                                                                                                    0.00359 (05021408)
                                                                                                                                                                                                                                                                                         0.00649 (00081607)

0.00625 (06081607)

0.00355 (06081607)

0.00601 (07090807)

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                                                                                                                                                                                                                                                                                                                                                                    0.00600 (06081607
                                                                                                                                                                                                                                                                                                                                                                    0.00591 (06081607
0.00366 (06081607
10/26/10
17:49:43
                                                                                                                                                                                                                                                                                                                                                                                   PAGE 12
**MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                          NODRYDPLT NOWETDPLT
                                                                                            *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                          ** CONC OF CO
                                                                                                                                                                             IN PPM
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Y-COORD |
                                                                                                                                              X-COORD (METERS)
    (METERS) | 374287.78
  3752761.3 |
3752632.1 |
3752502.9 |
  3752373.8
  3752244.6
                                       0.00544 (06081407)
0.00401 (06073107)
0.00267 (05071903)
0.00291 (05091722)
0.00308 (06061524)
0.00385 (07092707)
  3752244.0
3752115.4
3751986.2
3751857.0
3751727.8
   3751598.6
   3751469.4
                                         0.00336 (07031508)
0.00727 (07031508)
   3751340.2
  3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
3750694.3
                                        0.00727 (07031508)
0.00452 (07031508)
0.00263 (07081201)
0.00269 (07082904)
0.00452 (07091107)
0.00658 (07091107)
  3750435.9 | 0.00456 (07091107)

3750435.9 | 0.00456 (07091107)

3750435.9 | 0.00559 (06081607)

3750137.5 | 0.00560 (06081607)

*** AERMOD - VERSION 09292 *** *** Site 22 - C0
                                                                                                                                                                                                                                                                                   17:49:43
                                                                                                                                                                                                                                                                                   PAGE
  **MODELOPTs: NonDFAULT CONC
                                                                                                                                                   FLAT
                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                    *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
-- CONC OF CO IN PPM

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372687.37 3751957.29 0.02159 (06090607) 372914.88 3751945.62 0.01819 (07122005)
373051.97 3751954.38 0.01887 (05082807) 373154.06 3752021.46 0.01027 (06090306)
373279.49 3752047.71 0.00962 (06102522) 372652.37 3751356.42 0.02194 (07070203)
372789.46 3751359.34 0.02700 (07081701) 372909.05 3751359.34 0.02365 (05091702)
372911.97 3751496.43 0.04805 (07081203)

*** ARRMOD - VERSION 09292 *** Site 22 - CO
                                                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                                                                                                                                                                  17:49:43
PAGE 14
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                               FLAT
NODRYDPLT NOWETDPLT
                                                                    *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                          ** CONC OF CO IN PPM
    Y-COORD | X-COORD (METERS) (METERS) | 371513.98 371652.67 371791.36 371930.05 372068.74

        0.00082 (05010416)
        0.00064 (06053008)
        0.00091 (06090408)
        0.00132 (06090408)
        0.00090 (06090408)

        0.00085 (07090908)
        0.00089 (05010416)
        0.00073 (06053008)
        0.00113 (06090408)
        0.00141 (06090408)

        0.00127 (07099098)
        0.00108 (07090908)
        0.00097 (05010416)
        0.00084 (06053008)
        0.00141 (06090408)

        0.00101 (07090908)
        0.00139 (07099098)
        0.00137 (07090908)
        0.00166 (05010416)
        0.00100 (06053008)

        0.00058 (06090808)
        0.00086 (07099098)
        0.00127 (07090908)
        0.00169 (07090908)
        0.00120 (07090908)

        0.00059 (06060508)
        0.00071 (06090808)
        0.00085 (06090808)
        0.00130 (07090908)
        0.00120 (07090908)

        0.00073 (06060508)
        0.00071 (06060508)
        0.00100 (0606508)
        0.00103 (07090908)
        0.00120 (07090908)

        0.00086 (05052808)
        0.00097 (06061708)
        0.00110 (06061708)
        0.00130 (06041108)
        0.00140 (06090808)

        0.0013 (05122608)
        0.00121 (05122608)
        0.00114 (05122608)
        0.00177 (05122608)
        0.00121 (05122608)

        0.0013 (0701708)
        0.00121 (05122608)
        0.00144 (05122608)
        0.00177 (05122608)
        0.00221 (05122608)

        0.0013 (0701708)
        0.0
  3752761.3 |
   3752632.1
  3752502.9 |
3752373.8 |
3752244.6 |
3752115.4 |
  3751986.2
  3751857.0
3751727.8
   3751598.6
   3751469.4
3751340.2
3751211.0
  3751081.9
                                                                                                                                                                                                                                                                      0.00242 (06053108)

0.00224 (06053108)

0.00175 (07070108)

0.00128 (05122908)

0.00112 (07121308)

0.00106 (05112808)

0.00093 (05112808)

0.00078 (05112808)
   3750952.7
                                                                                                                                               0.00142 (06110508)
0.00175 (06053108)
0.00165 (07070108)
0.00135 (07070108)
0.00091 (06090208)
0.00074 (05122908)
0.00071 (07121308)
                                                                                                                                                                                                              0.00188 (07070108)

0.00152 (07070108)

0.00106 (05122908)

0.00088 (07121308)

0.00086 (05112808)

0.00081 (05112808)
  3750823.5
 3750823.5 0.00116 (06110508) 0.00134 ((
3750694.3 0.00125 (06053108) 0.00149 ((
3750565.1 0.00127 (06053108) 0.00147 ((
375035.9 0.00133 (07070108) 0.00127 ((
3750306.7 0.00110 (07070108) 0.00087 ((
375037.5 0.00082 (06090208) 0.00065 ((
*** AERMOD - VERSION 09292 *** Site 22 - CO
                                                                                               0.00134 (06053108)
0.00149 (06053108)
0.00147 (07070108)
0.00121 (07070108)
0.00087 (06090208)
0.00065 (05122908)
                                                                                                                                                                                                                                                                                  10/26/10
17:49:43
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
                                                                     *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                              INCLUDING SOURCE(S):
                                                                                                                                           VOL1
                                                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                       ** CONC OF CO IN PPM
                                                                                                                                    X-COORD (METERS)
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0.00278 (05122908)
0.00217 (07121308)
0.00192 (05112808)
0.00149 (05112808)
0.00119 (06011008)
0.00101 (06011008)
0.00014 (06011008)
0.00084 (06011008)
                                                                                                                                                                                                          0.00325 (05112808)
0.00240 (05112808)
0.00176 (06011008)
0.00139 (06011008)
0.00117 (06010924)
0.00099 (06010924)
0.00084 (06010924)
0.00084 (06010924)
                                                 0.00299 (06053108)
0.00206 (07070108)
0.00157 (05122908)
0.00146 (05112808)
                                                                                                                                                                                                                                                                                                                                                                   0.00288 (07081508)
0.00235 (07081508)
0.00196 (07081508)
0.00166 (07081508)
3751081.9 |
3750952.7 |
                                                                                                                                                                                                                                                                                        0.00300 (06011008)
0.00226 (06010924)
  3750823.5
                                                                                                                                                                                                                                                                                         0.00174 (06010924)
  3750694.3
                                                                                                                                                                                                                                                                                         0.00134 (06010924)
                                                                                                                                                                                                                                                                                       0.00134 (06012408)
0.00108 (06012408)
0.00091 (06012408)
0.00078 (06012408)
0.00066 (06012408)
3750694.3 | 0.00146 (05112808) 0.00149 (0 3750565.1 | 0.00129 (05112808) 0.00119 (0 3750455.1 | 0.00129 (05112808) 0.00110 (0 3750306.7 | 0.00087 (07032008) 0.000101 (0 3750177.5 | 0.00087 (07032008) 0.00084 (0 3750177.5 | 0.00087 (07032008) *** Site 22 - CO
                                                                                                                                                                                                                                                                                                                                                                   0.00144 (07081508)
0.00126 (07081508)
0.00111 (07081508)
0.000111 (07081508)
                                                                                                                                                                                                                                                                                                                                                                                   10/26/10
                                                                                                                                                                                                                                                                                                                                                                                  17:49:43
                                                                                                                                                                                                                                                                                                                                                                                   PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                         FLAT
                                                                                                                                                                                                         NODRYDPLT NOWETDPLT
                                                                                            *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                          ** CONC OF CO
                                                                                                                                                                              X-COORD (METERS)
                                      X-COORD (METERS)
372900.88 373039.57 373178.26 373316.95 373455.64
   (METERS)
                                            0.0016 (06082908) 0.00123 (07083108) 0.00089 (07083108) 0.00092 (05110224) 0.00134 (05082908) 0.00142 (07083108) 0.00108 (05110224) 0.00134 (05082808) 0.00159 (06082908) 0.00163 (07083108) 0.00137 (05110224) 0.00177 (05082808) 0.00237 (07083108) 0.00172 (05110224) 0.00159 (05082808) 0.00273 (07083108) 0.00237 (05110224) 0.00137 (05110224) 0.00159 (05082808) 0.00273 (07083108) 0.00237 (05110224) 0.00233 (05082808) 0.00170 (06051624) 0.00392 (07083108) 0.00332 (05110224) 0.00242 (05092224) 0.00217 (05071708) 0.00613 (07083108) 0.00460 (05110224) 0.00357 (05071708) 0.00346 (05082708) 0.0162 (07083108) 0.00734 (05071708) 0.00540 (06042824) 0.00362 (05090224) 0.00257 (05071708) 0.01236 (07111724) 0.00651 (05090224) 0.00378 (05121424) 0.05159 (06051408) 0.01332 (07090708) 0.00638c (06072908) 0.00384c (06072908) 0.01445 (05102308) 0.00862 (05012908) 0.00479 (05070208) 0.00299 (07090708)
                                                                                                                                                                                                                                                                                                                                                      0.00145 (05082808)
0.00137 (05082808)
0.00102 (07070124)
0.00126 (06051624)
 3752632.1
3752502.9
3752373.8
 3752244.6
                                                                                                                                                                                                                                                                                                                                                                   0.00150 (05071708)
0.00247 (05082708)
  3752115.4
                                                    0.00392 (07083108)
0.00613 (07083108)
0.01062 (07083108)
0.02657 (05071708)
0.05159 (06051408)
0.01445 (05120308)
 3751986.2
3751857.0
3751727.8
                                                                                                                                                                                                                                                                                                                                                                   0.00247 (03082708)
0.00249 (05082708)
0.00294 (05090224)
0.00252 (07120224)
0.00259c(06072908)
  3751598.6
                                                                                                                                                                                                         0.00638c(06072908)
0.00479 (05070208)
0.00381 (05012908)
0.00279 (0790808)
0.00274 (05102308)
0.00174 (05120308)
0.00117 (05120308)
0.0015 (05120308)
0.0003 (05120308)
0.00093 (05120308)
0.00093 (05120308)
0.00061 (05120308)
0.00051 (07011324)
                                                                                                                                                                                                                                                                                                                                                                   0.00234 (07090708)

0.00234 (07090708)

0.00204 (05070208)

0.00175 (07091108)

0.00150 (06081608)

0.00123 (05012908)

0.00182 (07090808)

0.00197 (07090808)
 3751469.4
                                                                                                                                 0.00862 (05012908)
                                                                                                                                                                                                                                                                                         0.00299 (07090708)
0.00254 (05070208)
3751469.4 | 0.01445 (05120308) 0.00862 (05012908) 3751340.2 | 0.00613 (05120308) 0.00460 (07090808) 3751211.0 | 0.00362 (07081424) 0.00359 (05120308) 3751081.9 | 0.00271 (07081508) 0.00259 (05120308) 3750952.7 | 0.00216 (07081508) 0.00159 (05120308) 3750892.5 | 0.00178 (07081508) 0.00132 (05120308) 3750694.3 | 0.00150 (07081508) 0.00102 (07022824) 3750655.1 | 0.00129 (07081508) 0.000102 (07022824) 3750369.9 | 0.00112 (07081508) 0.00004 (07022824) 3750365.7 | 0.00099 (07081508) 0.00006 (07030108) 3750175.5 | 0.00099 (07081508) 0.00066 (07030108) *** AERMOD - VERSION 09292 *** *** Site 22 - CO
                                                                                                                                                                                                                                                                                         0.00223 (05012908)
                                                                                                                                                                                                                                                                                        0.00223 (05012908)
0.00169 (05012908)
0.00244 (07090808)
0.00192 (07090808)
0.00132 (05102308)
0.00115 (05102308)
                                                                                                                                                                                                                                                                                                                                                                    0.00142 (07090808)
                                                                                                                                                                                                                                                                                         0.00081 (05120308)
0.00069 (05120308)
                                                                                                                                                                                                                                                                                                                                                                    0.00107 (05102308)
                                                                                                                                                                                                                                                                                                                                                                   0.00107 (05102308)
0.00101 (05102308)
0.00078 (05102308)
10/26/10
17:49:43
PAGE 17
                                                                                                                                                                                                                                                                                         0.00069 (U5120300,
0.00058 (05120308)
 **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                          FLAT
                                                                                                                                                                                                         NODRYDPIAT NOWETDPIAT
                                                                                            *** THE \, 1ST HIGHEST \, 8-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                        ** CONC OF CO IN PPM
                                      X-COORD (METERS)
373594.33 373733.02 373871.71 374010.40 374149.09
                                            3752761.3 |
  3752632.1
3752502.9
3752373.8
3752244.6
3752115.4
                                                    0.00097 (06051624)
0.00112 (05071708)
0.00181 (05082708)
0.00243 (05082708)
0.00215 (05090224)
0.00215 (05090224)
0.00215 (07120224)
                                                                                                                                                                                                                                                                                       0.00111 (05090224)

0.00114 (05090224)

0.00100 (05121424)

0.00102 (07120224)

0.00096 (07080208)

0.00103c(06072908)

0.00100 (07031508)

0.00066 (05070208)

0.00060 (05070208)
                                                                                                                                                                                                          0.00115 (07090724)

0.00142 (05090224)

0.00124 (05121424)

0.0015 (07080208)

0.0015 (07080208)

0.0010 (07031508)

0.00094 (05070208)

0.00094 (05070208)
                                                                                                                                0.00169 (05090224)
0.00155 (05121424)
0.00153 (07120224)
 3751986.2
                                                                                                                                                                                                                                                                                                                                                                   0.00089 (05081824)
                                                                                                                                                                                                                                                                                                                                                                   0.00089 (05081824)

0.00081 (05081724)

0.00086 (07120224)

0.00081 (07080208)

0.00087c(06072908)

0.00061 (07090708)

0.00064 (05070208)
  3751857.0
3751727.8
                                                     0.00194 (07120224)
0.00188c(06072908)
0.00181 (07090708)
0.00141 (05070208)
0.00144 (05070208)
0.00129 (07091108)
                                                                                                                               0.00153 (07120224)
0.00143c(06072908)
0.00149c(06072908)
0.00112 (07090708)
0.00119 (05070208)
0.00132 (07091108)
  3751598.6
  3751469.4
3751340.2
3751211.0
  3751081.9
                                                                                                                                                                                                                                                                                                                                                                    0.00064 (05070208)
  3750952.7
                                                      0.00128 (06081608)
                                                                                                                                 0.00096 (05021408)
0.00112 (06081608)
                                                                                                                                                                                                            0.00119 (07091108)
                                                                                                                                                                                                                                                                                         0.00093 (07091108)
                                                                                                                                                                                                                                                                                                                                                                    0.00068 (05070208)
0.00096 (07091108)
                                                                                                                                                                                                                                                                                       0.00100 (07091108)

0.00072 (05021408)

0.00090 (06081608)

0.00086 (06081608)

0.00052 (06081608)

0.00080 (07090808)
 3750823.5
                                                      0.00109 (06081608)
                                                                                                                                                                                                            0.00083 (05021408)
3750823.5 | 0.00109 (06081608) 0.00112 ((3750694.3 | 0.00128 (07090808) 0.00100 ((3750656.1 | 0.00172 (07090808) 0.00089 ((3750435.9 | 0.00158 (07090808) 0.00089 ((3750435.9 | 0.00158 (07090808) 0.00152 ((3750406.7 | 0.00109 (07090808) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047.5 | 0.0009 (05102308) 0.00152 ((375047
                                                                                                                                                                                                 0.00083 (05021408)
0.00100 (06081608)
0.00093 (06081608)
0.00062 (07090808)
0.00106 (07090808)
0.00135 (07090808)
                                                                                                                                                                                                                                                                                                                                                                   0.00096 (07091108)
0.00082 (07091108)
0.00064 (05021408)
0.00083 (06081608)
0.00081 (06081608)
                                                                                                                                 0.00100 (06081608)
                                                                                                                                 0.00100 (06081608)
0.00089 (07090808)
0.00138 (07090808)
0.00152 (07090808)
0.00128 (07090808)
                                                                                                                                                                                                                                                                                                                                                                   0.00052 (06081608)
                                                                                                                                                                                                                                                                                                                                                                                  10/26/10
17:49:43
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                                            *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                        INCLUDING SOURCE(S):
                                                                                                                                                                                          VOL1
                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                     ** CONC OF CO IN PPM
                                                                                                                                                                                             X-COORD (METERS)
                                     374287.78
   (METERS)
                                                    0.00105 (05082708)
0.00146 (05082708)
0.00125 (05082708)
3752761.3 |
3752632.1 |
3752502.9 |
 3752373.8
                                                      0.00068
                                                                               (05082424)
 3752244.6
                                                      0.00079 (05090224)
  3752115.4
                                                      0.00087 (05090224)
 3751986.2
3751857.0
3751727.8
                                                     0.00076 (05081824)
0.00070 (07120224)
0.00073 (07120224)
0.00070 (07080208)
  3751598.6
  3751469.4
                                                      0.00074c(06072908)
 3751340.2
                                                      0.00101 (07031508)
0.00066 (07031508)
 3751211.0
```

```
3751081.9 | 0.00049 (05070208)
3750952.7 | 0.00059 (05070208)
3750923.5 | 0.00066 (07091108)
3750694.3 | 0.00091 (07091108)
3750655.1 | 0.00065 (07091108)
375035.9 | 0.00056 (05021408)
3750306.7 | 0.00076 (06081608)
375017.5 | 0.00076 (06081608)
*** AERMOD - VERSION 09292 *** *** Site 22 - CO
                                                                                                                                                10/26/10
                                                                                                                                                   17:49:43
                                                                                                                                                   PAGE 19
 **MODELOPTs: NonDFAULT CONC
                                                                               NODRYDPLT NOWETDPLT
                                     *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 ,
                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372687.37 3751957.29 0.00519 (06090508) 372914.88 3751945.62 0.00689 (07083108)
373051.97 3751954.38 0.00462 (05092224) 373154.06 3752021.46 0.00333 (06051624)
373279.49 3752047.71 0.00251 (05071708) 372652.37 3751356.42 0.00829 (07121308)
372789.46 3751359.34 0.00778 (06010924) 37290.05 3751359.34 0.00701 (05120308)

***ARRMOD - VERSION 09292 *** Site 22 - CO

****
                                                                                                                                                  17:49:43
                                                                                                                                                  PAGE 20
 **MODELOPTS: NonDFAULT CONC
                                                                             FLAT
NODRYDPLT NOWETDPLT
                                                           *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
                                           ** CONC OF CO
                                                                IN PPM
                                                                DATE
GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL HIGH 1ST HIGH VALUE IS 0.09983 ON 07091107: AT ( 372900.88, 3751598.61, 10.00, 10.00, 0.00) GC UCART1
 *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Site 22 - CO
                                                                                                                                               10/26/10
17:40:11
                                                                                                                                                   17:49:43
PAGE 21
 **MODELOPTs: NonDFAULT CONC
                                                                              FLAT
NODRYDPLT NOWETDPLT
                                                           *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***
                                           ** CONC OF CO IN PPM
                                                                 DATE
                                        AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
GROUP ID
ALL HIGH 1ST HIGH VALUE IS 0.05159 ON 06051408: AT ( 372900.88, 3751598.61, 10.00, 10.00, 0.00) GC UCARTI
 *** RECEPTOR TYPES: GC = GRIDCART
    RECEPTOR TYPES. GC - GRIDGAL.

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR
 10/26/10
 **MODELOPTs: NonDFAULT CONC
                                                                                NODRYDPLT NOWETDPLT
 *** Message Summary : AERMOD Model Execution ***
   ----- Summary of Total Messages -----
 A Total of
                     0 Fatal Error Message(s)
 A Total of
A Total of
                      0 Warning Message(s)
152 Informational Message(s)
 A Total of 26280 Hours Were Processed
 A Total of 15 Calm Hours Identified
 A Total of
                      137 Missing Hours Identified ( 0.52 Percent)
    ******* FATAL ERROR MESSAGES *******

*** NONE ***
     ****** WARNING MESSAGES ******
                  *** NONE ***
     ************
```

```
**
** AERMOD Input Produced by:

* AERMOD View Ver. 6.7.1

* Lakes Environmental Software Inc.

* Date: 10/26/2010

* File: C:\Documents and Settings\jbailey\Desktop\Site 22\N02.ADI
 ***********
** AERMOD Control Pathway
CO STARTING
      STARTING
TITLEONE Site 22 - NO2
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 1 ANNULL
URBANOPT 9862049 Los_Angeles_County
      POLLUTID NOX
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
SO STARTING

** Source Location **

*Source ID - Type - X Coord. - Y Coord. **

Location Voll VoluME 372838.810 3751633.020 0.0

** DESCRSRC Equipment

** Source Parameters **

SRCPARAM Voll 0.0794 4.100 27.674 1.163

URBANSRC Voll

CONCUNIT 531.5 GRAMS/SEC PPM

SRCGROUP ALL

SO FINISHED

**
SO STARTING
 *********
RE STARTING
     GRIDCART UCART1 STA
     XYINC 371513.98 21

GRIDCART UCART1 END
DESCRREC """

DISCCART 372687.37 3751957.29

DISCCART 372687.37 3751954.62

DISCCART 373051.97 3751954.38

DISCCART 373154.06 3752021.46

DISCCART 37327.49 3752047.71

DISCCART 372652.37 3751356.42

DISCCART 372789.46 3751359.34

DISCCART 37291.97 3751496.43

FINISHED
                                   XYINC 371513.98 21 138.69 3750177.52 21 129.19
DISCCART
DISCCART
DISCCART
DISCCART
DISCCART
RE FINISHED
** AERMOD Meteorology Pathway
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFFASE 10 METERS
ME FINISHED
**
 **
** AERMOD Output Pathway
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST

** AUTO-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
PLOTFILE ANNUAL ALL NO2.AD\ANOGGALL.PLT
OU FINISHED
  *** SETUP Finishes Successfully ***
  10/26/10
17:56:23
PAGE 1
  **MODELOPTs: NonDFAULT CONC
                                                                                                               NODRYDPLT NOWETDPLT
                                                                                 * MODEL SETUP OPTIONS SUMMARY
  \ensuremath{^{\star\star}} \mathsf{Model} Is Setup For Calculation of Average CONCentration Values.
          DEPOSITION LOGIC --
  **NO GAS DEPOSITION Data Provided.

**NO FARTICLE DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION DATA Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT

**Model Uses NO WET DEPLETION. WETDPLT
  **Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
     for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
```

```
**Model Allows User-Specified Options:
           Allows User-Specified Uptions:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR and Calculates ANNUAL Averages
**This Run Includes: 1 Source(s); 1 Source Group(s); and 450 Receptor(s)
**The Model Assumes A Pollutant Type of: NOX
**Model Set To Continue RUNning After the Setup Testing.
             Options Selected.

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Ro
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor =
Output Units = PPM
                                                                                                                                                                            0.0
                                                                                                                                                     Rot. Angle :
**Approximate Storage Requirements of Model = 3.6 MB of RAM.
10/26/10
                                                                                                                                                                             17:56:23
                                                                                                                                                                             PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                              NODRYDPLT NOWETDPLT
                                                                       *** VOLUME SOURCE DATA ***
                   NUMBER EMISSION RATE
PART. (USER UNITS) X
      NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE
SOURCE PART. (USER UNITS) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) EY

BY
VOL1 0 0.79400E-01 372838.8 3751633.0 10.0 *** AERMOD - VERSION 09292 *** *** Site 22 - NO2
                                                                                           4.10 27.67 1.16
                                                 *** Site 22 - NO2
                                                                                                                                                                             10/26/10
**MODELOPTs: NonDFAULT CONC
                                                                                             FLAT
NODRYDPLT NOWETDPLT
                                                             *** SOURCE IDS DEFINING SOURCE GROUPS ***
GROUP ID
ALL VOL1 ,
*** AERMOD - VERSION 09292 ***
                                                 *** Site 22 - NO2
                                                                                                                                                                             10/26/10
                                                                                                                                                                             17:56:23
**MODELOPTS: NonDFAULT CONC
                                                                                             FLAT
NODRYDPLT NOWETDPLT
                                                         *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
         371514.0, 371652.7, 371791.4, 371930.1, 372068.7, 372207.4, 372346.1, 372484.8, 372623.5, 372762.2, 372900.9, 373039.6, 373178.3, 373317.0, 373455.6, 373594.3, 373733.0, 373871.7, 374010.4, 374149.1,
         374287.8,
                                                           *** Y-COORDINATES OF GRID ***
                                                                          (METERS)
3750177.5, 3750306.7, 3750435.9, 3750565.1, 3750694.3, 3750823.5, 3750952.7, 3751081.9, 3751211.0, 3751340.2, 3751469.4, 3751598.6, 3751727.8, 3751857.0, 3751986.2, 3752115.4, 3752244.6, 3752373.8, 3752502.9, 3752632.1, 3752761.3,

*** AERMOD - VERSION 09292 *** 

*** Site 22 - NO2 

***

***

***

***
                                                                                                                                                                             PAGE 5
**MODELOPTs: NonDFAULT CONC
                                                                                             FLAT
                                                                                             NODRYDPLT NOWETDPLT
                                                            *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
                                                                                            ( 372914.9, 3751945.6,
( 373154.1, 3752021.5,
( 372652.4, 3751356.4,
( 372909.0, 3751359.3,
                                                                                0.0);
      ( 372687.4, 3751957.3,
                                                                                                                                                             10.0,
                                                                                                                                                                               0.0);
( 372687.4, 3751957.3,
( 373052.0, 3751954.4,
( 373279.5, 3752047.7,
( 372789.5, 3751359.3,
( 372912.0, 3751496.4,
*** AERMOD - VERSION 09292 ***
                                             10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
10.0, 10.0,
*** Site 22 - NO2
                                                                               0.0);
0.0);
0.0);
0.0);
                                                                                                                                                             10.0,
10.0,
10.0,
                                                                                                                                                                               0.0);
                                                                                                                                                                             17:56:23
                                                                                                                                                                             PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                             NODRYDPLT NOWETDPLT
                                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)
```

```
*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                     (METERS/SEC)
                                                        1.54, 3.09, 5.14, 8.23, 10.80,
 *** AERMOD - VERSION 09292 ***
                                       *** Site 22 - NO2
                                                                                                                                        10/26/10
                                                                                                                                        17:56:23
                                                                                                                                        PAGE
 **MODELOPTS: NonDEAULT CONC
                                                                          NODRYDPLT NOWETDPLT
                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
  Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN
Verein 2006
Name: UNKNOWN
                                         Upper air station no.: 3190
Name: UNKNOWN
                    Year:
                            2005
                                                                            Year:
                                                                                     2005
First 24 hours of scalar data
First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV 05 01 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00 05 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00
 10/26/10
 **MODELOPTS: NonDFAULT CONC
                                                                         NODRYDPLT NOWETDPLT
                     *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                       INCLUDING SOURCE(S):
                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                           ** CONC OF NOX
                                                                IN PPM
    Y-COORD |
                                                                       X-COORD (METERS)
    Y-COORD | X-COORD (METERS)
(METERS) | 371513.98 371652.67 371791.36 371930.05 372068.74 372207.43 372346.12 372484.81 372623.50
  3752632.13 |
3752502.94 |
                       0.00002
                                      0.00003
                                                     0.00003
                                                                    0.00003
                                                                                   0.00004
                                                                                                  0.00004
                                                                                                                 0.00005
                                                                                                                                0.00005
                                                                                                                                               0.00006
                       0.00002
                                      0.00003
                                                                                   0.00004
                                                                                                  0.00005
                                                                                                                 0.00006
                                                                                                                                0.00006
                                                                                                                                               0.00007
  3752373.75
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  3751727.80
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  3751598.61
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  3751598.61
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3751340.23
3751211.04
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  3750823.47
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  3750694.28
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  3750565.09
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*** Site 22 - NO2
 3750435.09 | 0.00004
3750435.90 | 0.00004
3750306.71 | 0.00004
3750177.52 | 0.00003
*** AERMOD - VERSION 09292 ***
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                                                                                                                                10/26/10
                                                                                                                                        PAGE
 **MODELOPTS: NonDFAULT CONC
                                                                          NODRYDPLT NOWETDPLT
                     *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                       INCLUDING SOURCE(S):
                                                                    VOL1
```

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

		** C0	ONC OF NOX	IN PPM			**		
Y-COORD (METERS)								373733.02	373871.71
3752761.32	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00004
3752632.13 3752502.94		0.00007	0.00007	0.00007	0.00006	0.00006	0.00006	0.00006	0.00005
3752373.75	0.00010	0.00011	0.00011	0.00011	0.00010	0.00010	0.00009	0.00008	0.00008
3752244.56 3752115.37	0.00014	0.00015	0.00015 0.00022	0.00014 0.00021	0.00014	0.00013	0.00011	0.00010	0.00009
3751986.18	0.00033	0.00039	0.00038	0.00034	0.00028	0.00021	0.00016 0.00016	0.00012	0.00009
3751856.99 3751727.80	0.00065	0.00086	0.00077	0.00054		0.00020	0.00014	0.00010	0.00008
3751598.61 3751469.42	0.00574	0.00443	0.00104	0.00044	0.00025	0.00016	0.00012	0.00009	0.00007
3751340.23	0.00020 0.00033 0.00065 0.00192 0.00574 0.00131 0.00046 0.00024	0.00100	0.00031	0.00029 0.00020 0.00014	0.00019 0.00014	0.00011	0.00012 0.00010 0.00008 0.00007	0.00008	0.00005
3751211.04 3751081.85	0.00024 0.00015	0.00041 0.00022 0.00014	0.00019	0.00014	0.00011	0.00009	0.00007	0.00006	0.00005 0.00004
3750952.66	0.00011	0.00010	0.00009	0.00008	0.00007	0.00006	0.00005	0.00004	0.00004
3750823.47 3750694.28							0.00004	0.00004	
3750565.09 İ	0.00005	0.00005	0.00005	0.00004	0.00004	0.00004	0.00003	0.00003	0.00003
3750435.90	0.00004 0.00003 0.00003 VERSION 09292 ***	0.00004	0.00004	0.00004	0.00003	0.00003	0.00003	0.00003	0.00002
3750177.52	0.00003	0.00003	0.00003	0.00003	0.00003	0.00002	0.00002	0.00002	0.00002
*** AERMOD -	VERSION 09292 ***	*** Site :	22 - NO2					***	10/26/10 17:56:23
***************************************	NonDFAULT CONC			FLAT					PAGE 10
MODELOPIS:	NONDFAULT CONC				DPLT NOWETD	PLT			
	*** THE ANNUA	L AVERAGE CON	NCENTRATION SOURCE(S):	VALUES AVE	RAGED OVER	3 YEARS FOR	SOURCE GROUP:	ALL **	*
		*** NETWO	RK ID: UCART	1 ; NETWORE	K TYPE: GRID	CART ***			
		** C0	ONC OF NOX	IN PPM			**		
Y-COORD				X-COORD	(METERS)				
	374010.40								
3752761.32 3752632.13	0 00005	0.00004	0.00004						
3752502.94	0.00006	0.00005	0.00005						
3752373.75 3752244.56	0.00007	0.00006	0.00005						
3752115.37	0.00008	0.00006	0.00005						
3751986.18 3751856.99	0.00007	0.00006	0.00005						
3751727.80	0.00006	0.00005	0.00004						
3751598.61 3751469.42	0.00006	0.00005	0.00004						
3751340.23 3751211.04	0.0004	0.00004	0.00003						
3751081.85			0.00003						
3750952.66 3750823.47			0.00003						
3750694 28	0 00003	0.00002	0.00002						
3750565.09 3750435.90	0.00002	0.00002	0.00002						
3750306.71	0.00002 0.00002 0.00002 0.00002	0.00002	0.00002						
*** AERMOD -	VERSION 09292 ***	*** Site 2	0.00002 22 - NO2						10/26/10
		***							17:56:23 PAGE 11
**MODELOPTs:	NonDFAULT CONC			FLAT	OPIT NOWETD	יח יח			
	*** THE ANNUA		SOURCE(S):	VOL1 ,			SOURCE GROUP:	ALL **	*
		** 0	ONC OF NOX	E CARTESIAN RI	ECEPTOR POIN	TS ***	**		
	O (M) Y-COORD (M)					Y-COORD (M)			
37268 37305	37.37 3751957.29 51.97 3751954.38	0.000	031 044		372914.88 373154.06	3751945.62 3752021.46	0.00048 0.00030		
37327	79.49 3752047.71	0.000	124		372652.37	3751356.42	0.00053		
37291	39.46 3751359.34 L1.97 3751496.43	0.00)51 121	-	372909.05	3751359.34	0.00045		
*** AERMOD -	VERSION 09292 ***	*** Site :	22 - NO2					***	10/26/10 17:56:23
									PAGE 12
**MODELOPTs:	NonDFAULT CONC			FLAT NODR	YDPLT NOWETD	PLT			
	**		HIGHEST 1-HE		CENTRATION	VALUES FOR S	SOURCE GROUP:	ALL **	*
		*** NETWO	RK ID: UCART:	1 ; NETWORE	K TYPE: GRID	CART ***			
		** C0	ONC OF NOX	IN PPM			**		
Y-COORD (METERS)	371513.98	3'	71652.67	X-COORD 37:	1791.36	371	.930.05	3720	68.74
3752761.3	0.00282 (05010	100) 0 (10200 (05010	400) 0.00	1201 (060004	07) 0.00	419 (06000407) 0.002	70 (06000407)
3752632.1	0.00255 (07090) 0.00255 (07090) 0.00289 (07090) 0.00118 (06090) 0.00119 (06121) 0.00140 (07091)	907) 0.0	00307 (05010	409) 0.00	0229 (050104	0.00	1347 (06090407) 0.004	42 (06090407)
3752502.9 3752373.8	0.00392 (07090) 0.00289 (07090)	907) 0.0 907) 0.0	070909 00419 (070909	907) 0.00 907) 0.00	050104) 35 (050104 0408 (070909	0.00 07) 0.00	1256 (05010409 1365 (05010409) 0.004	30 (06090407) 89 (05010409)
3752244.6	0.00118 (06090	102) 0.0	00220 (07090	907) 0.00	0407 (070909	07) 0.00	1498 (07090907) 0.003	98 (05010409)
3751986.2	0.00140 (06121	0.0 301) 0.0	00163 (061215 00163 (061215	102) U.00 509) O.00	0166 (061215) 0166 (061215)	0.00 09) 0.00	06090102 دددر 06090102 (06090102) 0.005	54 (06090102)
3751857.0 3751727.8	0.00140 (07091 0.00163 (07110	503) 0.0	00170 (070916 00168 (071109	603) 0.00	0195 (070916	03) 0.00	06100301 0246 (07081605	0.002	80 (06120524)
3751598.6	0.00255 (07110	908) 0.0	00275 (07110	908) 0.00	0298 (071109	0.00	325 (07110908) 0.003	59 (07110908)
3751469.4 3751340.2	0.00255 (07110 0.00237 (06070 0.00190 (06041	206) 0.0 307) 0.0	JU274 (06070) JU218 (06041)	206) 0.00 307) 0.00	0306 (060702 0220 (060413	0.00 07) 0.00	1325 (06070206 1242 (07030608	0.003	47 (07082903) 34 (07030608)
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0.00264 (07030608)
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0.00447 (07070106)
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0.00453 (07070106)
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0.00386 (07070106)
3751211.0 |
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0.00232 (07030608)
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0.00214 (07030608)
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0.00174 (06111722)
 3751081.9
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 3750952.7
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 3750823.5
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3750435.9 | 0.00402 (U/U/U/U),
3750306.7 | 0.00291 (07070106) 0.00267 (06
3750177.5 | 0.00256 (06090207) 0.00173 (06
*** AERMOD - VERSION 09292 *** *** Site 22 - NO2
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                                                                                                                                                          0.00155 (06090207)
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0.00198 (06090107)
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17:56:23
                                                                                                                                                                                                                                                                                         PAGE
                                                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                                                            1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                              INCLUDING SOURCE(S):
                                                                                                                                            VOI-1
                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                         ** CONC OF NOX IN PPM
                                       X-COORD (METERS)
372207.43 372346.12 372484.81
  Y-COORD
                                                                                                                                                                                                                   372623.50
  (METERS)
                                                                                                                                                                                                                                                                             372762.19
                                      0.00181 (05082924)
0.00213 (05082924)
0.00258 (07090806)
0.00323 (07090806)
3752632.1
3752502.9
3752373.8
 3752244.6
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0.00682 (06090407)

0.00571 (06090407)

0.00971 (07090907)

0.00773 (07091002)

0.00773 (07091002)

0.00716 (07012320)

0.001016 (07070106)

0.00535 (06090207)

0.00433 (07070203)

0.00337 (06041124)

0.00343 (07032008)

0.00249 (07032008)
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                                       0.00333 (05010409)
0.00471 (07090907)
0.00545 (07090907)
0.00305 (06090102)
0.00367 (05042101)
0.00401 (07110908)
3752244.0
3752115.4
3751986.2
3751857.0
                                                                                                0.00392 (05010409)
0.00680 (07090907)
0.00462 (06090102)
0.00533 (07091603)
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0.00683 (05082505)
0.00943 (05082506)
0.01263 (06090102)
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0.00535 (05052102)
0.00712 (05052102)
0.01306 (07062501)
0.02599 (06090407)
 3751727.8
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0.01821 (07072705)

0.00957 (06041123)

0.00712 (07081701)

0.00488 (07081701)

0.00355 (07042623)

0.00325 (06082207)
3751598.6
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0.00478 (05101822)

0.00448 (05043001)

0.00828 (07070106)

0.00488 (06090207)

0.00253 (05050324)

0.00317 (06090107)
3751469.4
                                        0.00395 (07082903)
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                                       0.00395 (07082903)

0.00348 (07012320)

0.00437 (07070106)

0.00699 (07070106)

0.00432 (06090207)

0.00243 (06090207)

0.00208 (07091007)
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0.00620 (07072705)
0.00476 (06090606)
0.00335 (05042905)
0.00268 (06041123)
 3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
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0.00249 (07032008)
0.00225 (06061607)
0.00192 (06061607)
0.00153 (06061607)
0.00126 (06070106)
 3750694.3
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 3750565.1
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3750435.9 | 0.00229 (06090107) 0.00256 (05102108) 3750435.9 | 0.00225 (06090107) 0.00255 (07032008) 3750306.7 | 0.00245 (05102108) 0.00191 (06072607) 3750177.5 | 0.00232 (07032008) 0.00182 (06061607) *** AERMOD - VERSION 09292 *** *** Site 22 - NO2
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0.00263 (06082207)
0.00248 (06082207)
10/26/10
17:56:23
                                                                                                                                                                                                                                                                                        PAGE 14
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                        NODRYDDIA NOWETDDIA
                                                                    *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                          ** CONC OF NOX IN PPM
                            X-COORD (METERS)
372900.88 373039.57 373178.26 373316.95
  Y-COORD |
(METERS) |

        0.00177 (07042507)
        0.00160 (07040123)
        0.00142 (07122005)
        0.00225 (05082807)
        0.00453 (05082807)

        0.00204 (07091802)
        0.00177 (06082107)
        0.0018 (07062524)
        0.00430 (05082807)
        0.00419 (05082807)

        0.00251 (07091802)
        0.00266 (06082107)
        0.00232 (07062524)
        0.00540 (05082807)
        0.00247 (05082807)

        0.00314 (07091802)
        0.00267 (07122005)
        0.00461 (05082807)
        0.00461 (05082807)
        0.00185 (06090306)

        0.00338 (07091802)
        0.00372 (07062524)
        0.00677 (05082807)
        0.00238 (07070124)
        0.00260 (06102522)

        0.00531 (07040123)
        0.00525 (05082807)
        0.00485 (05082807)
        0.00335 (06102522)
        0.00665 (05082707)

        0.0199 (07062524)
        0.00926 (05082807)
        0.00538 (0509306)
        0.01218 (05082707)
        0.00498 (05082707)
        0.00658 (05082707)

        0.0199 (07062524)
        0.00926 (05082807)
        0.00526 (05070728)
        0.00726 (0507072)
        0.00498 (05082707)
        0.00362 (07112919)

        0.02762 (05082807)
        0.01354 (07072804)
        0.00726 (05071930)
        0.00540 (0507192)
        0.00581 (06112321)
        0.00438 (07011221)
        0.00438 (07011221)

        0.04315 (07091107)
        0.01295 (05070723)
        0.00812 (06112321)</td
3752632.1
3752502.9
3752373.8
3752244.6
3752115.4
3751986.2
 3751857 0
 3751727.8
3751598.6
3751469.4
3751340.2
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0.00428 (06081607)
0.00334 (06081607)
 3751211.0
 3751081.9
                                        0.00404 (05042102)
                                                                                                 0.00459 (07051822)
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3750952.7
                                        0.00332 (05042102)
                                                                                                 0.00322 (05091702)
                                                                                                                                                          0.00488 (05102308)
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                                       0.00332 (05042102) 0.00322 (05

0.00276 (05042102) 0.00264 (05

0.00232 (05042102) 0.00223 (07

0.00197 (05042102) 0.00182 (07

0.00169 (05042102) 0.00182 (07

0.00147 (05042102) 0.00113 (06

0.00129 (05042102) 0.00110 (06

SION 09292 *** *** Site 22 - NO2
                                                                                                                                                0.00488 (05102308)
0.00371 (05102308)
0.00230 (07051822)
0.00173 (07051822)
0.00155 (05091702)
0.00137 (05091702)
0.00119 (07103023)
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0.00611 (07090807)

0.00390 (05102308)

0.00344 (05102308)

0.00229 (05102308)

0.00145 (07051822)

0.00117 (07051822)
3750952.7
3750823.5
3750694.3
3750565.1
3750435.9
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0.00264 (05091702)
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0.00454 (07090807)
                                                                                                 0.00142 (07103023)
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 3750306.7
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3750177.5
                                                                                                 0.00101 (06052407)
                                                                                                                                                                                                                                                                             0.00236 (05102308)
 *** AERMOD - VERSTON 09292 ***
                                                                                                                                                                                                                                                                                       10/26/10
17:56:23
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                       NODRYDPLT NOWETDPLT
                                                                                            1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                              INCLUDING SOURCE(S):
                                                                                                                                            VOL1
                                                                              *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                        ** CONC OF NOX IN PPM
                                                                                                                                            X-COORD (METERS)
  Y-COORD
                                       373594.33 37333.02 373871.71
                                                                                                                                                                                                                 374010.40
                                                                                                                                                                                                                                                                            374149.09
                                       0.00388 (05082707)
0.00508 (05082707)
0.00346 (05082707)
0.00251 (06081407)
3752632.1
3752502.9
3752373.8
3752244.6
                                       0.00488 (05082707)

0.00728 (05082707)

0.00364 (06081407)

0.00231 (06073107)

0.00302 (06090106)

0.00345 (06112321)

0.00485 (07031508)

0.00278 (07081201)
                                                                                                                                                         0.00504 (05082707)
0.00296 (06081407)
0.00228 (06073107)
0.00198 (05071903)
0.00204 (06061524)
0.00231 (06112321)
0.00333 (07031508)
0.00291 (07031508)
                                                                                                                                                                                                                                                                       0.00251 (06081407)
0.00200 (06073107)
0.00120 (07031509)
0.00149 (05091722)
0.00153 (06061524)
0.00179 (07092707)
0.00194 (07031508)
0.00336 (07031508)
                                                                                                                                                                                                                   0.00265 (05082707)

0.00266 (06081407)

0.00163 (06073107)

0.00170 (05091722)

0.00176 (06061524)
3752115.4
3751986.2
3751857.0
3751727.8
                                                                                                 0.00418 (05082707)
0.00304 (06081407)
0.00220 (05071903)
                                                                                                 0.00246 (07072605)
                                                                                                                                                                                                                   0.00176 (06061524)
0.00195 (06112321)
0.00256 (07031508)
0.00331 (07031508)
                                                                                                0.00279 (06112321)
0.00417 (07031508)
0.00236 (07081802)
 3751598.6
3751469.4 |
3751340.2 |
```

```
0.00350 (07091107)
0.00359 (07091107)
0.00376 (06081607)
                                                                                                                                                    0.00162 (07081802)
0.00155 (07082904)
0.00276 (07091107)
  3751211.0 |
                                                                    0.00223 (07082904)
0.00384 (07091107)
                                                                                                            0.00184 (07081201)
                                                                                                                                                                                           0.00144 (07031508)
0.00130 (07081201)
                                                                                                            0.00218 (07091107)
0.00357 (07091107)
0.00191 (05021408)
  3751081.9
  3750952.7
                                                                    0.00259 (07091107)
                                                                                                                                                                                            0.00143 (07091107)
0.00295 (07091107)
  3750823.5
                             0.00319 (06081607)
                                                                                                                                                    0.00304 (07091107)
 3750823.5 0.00319 (06081607) 0.00337 (06
3750564.3 0.00407 (07090807) 0.00333 (06
3750565.1 0.00563 (07090807) 0.00280 (07
3750435.9 0.00517 (07090807) 0.00543 (07
3750177.5 0.00279 (05102308) 0.00421 (07
*** AERMOD - VERSION 09292 *** *** Site 22 - NO2
                                                                                                            0.00306 (06081607)
0.00286 (06081607)
0.00192 (07090807)
0.00347 (07090807)
                                                                                                                                                    0.00304 (07091107)
0.00173 (05021408)
0.00281 (06081607)
0.00270 (06081607)
0.00154 (06081607)
                                                                    0.00504 (07090807)
0.00421 (07090807)
                                                                                                                                                                                            0.00255 (06081607)
0.00158 (06081607)
                                                                                                                                                    0.00154 (000011 )
0.00260 (07090807)
***
                                                                                                            0.00447 (07090807)
                                                                                                                                                                                                   10/26/10
17:56:23
                                                                                                                                                                                                    PAGE
                                                                                                          FLAT
NODRYDPLT NOWETDPLT
 **MODELOPTS: NonDFAULT CONC
                                                                 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                       INCLUDING SOURCE(S):
                                                                                                  VOI-1
                                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                              ** CONC OF NOX IN PPM
   Y-COORD
                                                                                                    X-COORD (METERS)
   (METERS)
                              374287.78
                             0.00319 (05082707)
0.00467 (05082707)
0.00396 (05082707)
  3752632.1
3752502.9
  3752373.8
                             0.00186 (06081407)
  3752244.6
                             0.00235 (06081407)
  3752244.0
3752115.4
3751986.2
3751857.0
                             0.00173 (06073107)
0.00115 (05071903)
0.00126 (05091722)
0.00133 (06061524)
  3751727.8
  3751598.6
                             0.00166 (07092707)
  3751469.4
                             0.00145 (07031508)
                            0.00145 (07031508)

0.00314 (07031508)

0.00195 (07031508)

0.00114 (07081201)

0.00116 (07082904)

0.00195 (07091107)

0.00285 (07091107)

0.00197 (07091107)
  3751340.2
 3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
3750694.3
  3750565.1
 10/26/10
17:56:23
                                                                                                                                                                                                   PAGE 17
 **MODELOPTS: NonDEAULT CONC
                                                                                                           NODRYDDIAT NOWETDRIAT
                                                 *** THE \, 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, ,
                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF NOX IN PPM
                                                                                                                X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372914.88 3751945.62 0.00786 (07122005)
0.00444 (06090306)
0.00448 (07070203)
                                                            372687.37 3751957.29
                                                                                                                   373154.06 3752021.46
372652.37 3751356.42
372909.05 3751359.34
             373051.97
373279.49
                                3751954.38
                                3752047.71
 373279.49 3752047.71
372789.46 3751359.34
372911.97 3751496.43
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                         0.01022 (05091702)
                                                        0.02077 (07081701)
0.02077 (07081203)
*** Site 22 - NO2
***
                                                                                                                                                                                                   PAGE 18
 **MODELOPTS: NonDEAULT CONC
                                                                                                          FLAT
                                                                                                          NODRYDDIA NOWETDRIA
                                                         *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***
                                                           ** CONC OF NOX IN PPM
                                                                                                                                                                                 NETWORK
                                                 AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
GROUP ID
                                                          0.00574 AT ( 372762.19, 3751598.61, 0.00443 AT ( 372900.88, 3751598.61, 0.00379 AT ( 372900.88, 3751727.80,
            1ST HIGHEST VALUE IS
3RD HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS
                                                                                                                              10.00,
                                                                                                                                               10.00,
                                                                                                                                                               0.00)
                                                                                                                                                                          GC
GC
                                                                                                                                                                                 UCART1
                                                                                                                                                               0.00)
                                                                                                                                                                                 UCART1
                                                                                  372762.19,
373039.57,
372762.19,
372911.97,
                                                                                                                                               10.00,
10.00,
10.00,
10.00,
                                                                                                                                                                          GC
GC
GC
DC
                                                           0.00192 AT
                                                                                                      3751727.80,
3751727.80,
                                                                                                                              10.00,
                                                                                                                                                               0.00)
                                                                                                                                                                                 UCART1
UCART1
                                                          0.00148 AT ( 373039.57, 3751727.80, 0.00131 AT ( 372762.19, 3751469.42, 0.00121 AT ( 372911.97, 3751496.43, 0.00108 AT ( 372623.50, 3751598.61, 0.00104 AT ( 373039.57, 3751598.61, 0.00100 AT ( 372900.88, 3751469.42,
                                                                                                                              10.00,
                                                                                                                                               10.00,
                                                                                                                                                               0.00)
                                                                                                                                                                           GC
                                                                                                                              10.00,
                                                                                                                                               10.00,
                                                                                                                                                               0.00)
                                                                                                                                                                           GC
                                                                                                                                                                                 UCART1
                                                                                                                                                               0.00)
                                                                                                                                                                                 UCART1
 *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
                                                         *** Site 22 - NO2
 *** AERMOD - VERSION 09292 ***
                                                                                                                                                                                                   10/26/10
                                                                                                                                                                                                    17:56:23
PAGE 19
 **MODELOPTs: NonDFAULT CONC
                                                                                                          FLAT
NODRYDPLT NOWETDPLT
                                                                              *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
                                                          ** CONC OF NOX
                                                      AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
GROUP ID
                                                         0.04315 ON 07091107: AT ( 372900.88, 3751598.61, 10.00, 10.00, 0.00) GC UCART1
           HIGH 1ST HIGH VALUE IS
```

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 22\PM10.ADI

**
 ************
 ** AERMOD Control Pathway
      STARTING
TITLEONE Site 22 - PM10
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24
URBANOPT 9862049 Los_Angeles_County
      POLLUTID PM10.
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION YOLI VOLUME 372838.810 3751633.020 0.0

** DESCRSCE Equipment
LOCATION AREAL AREA 372778.051 3751573.707 0.0

** DESCRSCE Equipment

** Source Parameters **
SRCPARAM AREAL 0.0000485771 0.000 119.000 119.000 0.000
URBANSRC VOLI
URBANSRC VOLI
URBANSRC VOLI
URBANSRC AREAL
SRCGROUP ALL
      SRCGROUP ALL
 SO FINISHED
 ...........
 *** AERMOD Receptor Pathway

***

***

***

***
RE STARTING
GRIDCART UCARTI STA

XYINC 371513.98 21 138.69 3750177.52 21 129.19
GRIDCART UCARTI END
** DESCREC ** **
DISCCART 372687.37 3751957.29
DISCCART 373914.88 3751945.62
DISCCART 373154.06 3752021.46
DISCCART 373154.06 3752021.46
DISCCART 373179.49 3752047.71
DISCCART 37279.49 375126.42
DISCCART 372789.46 3751356.42
DISCCART 372789.46 3751359.34
DISCCART 372789.46 3751359.34
DISCCART 372909.05 3751359.34
DISCCART 372911.97 3751496.43
RE FINISHED
RE STARTING
 RE FINISHED
 *************
 ** AERMOD Meteorology Pathway
     STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
PROFBASE 10 METERS
PROFBASE 10 METERS
 ME FINISHED
 ...........
 ** ABRMOD Output Pathway
**
**
OU STARTING
 OB SIARING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED
   ********
   *** SETUP Finishes Successfully ***
   18:02:29
                                                                                                                                                                                                                PAGE
  **MODELOPTs: NonDFAULT CONC
                                                                                                                  NODRYDPLT NOWETDPLT
   **Model Is Setup For Calculation of Average CONCentration Values.
  -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
   **Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
```

```
for Total of
                       1 Urban Area(s):
   Urban Population =
                              9862049.0 ; Urban Roughness Length = 1.000 m
**Model Allows User-Specified Options:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR
**This Run Includes: 2 Source(s); 1 Source Group(s); and 450 Receptor(s)
**The Model Assumes A Pollutant Type of: PM10.
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
            Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                     m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Angle = Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model =
                                                                 3.6 MB of RAM.
10/26/10
                                                                                                                                                                18:02:29
**MODELOPTS: NonDFAULT CONC
                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                                  *** VOLUME SOURCE DATA ***
     NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
4.10 27.67 1.16
                                                                                                                         YES
                                                                                                                                                                10/26/10
                                                                                                                                                                 18:02:29
PAGE 3
**MODELOPTs: NonDFAULT CONC
                                                                                      FLAT
NODRYDPLT NOWETDPLT
                                                                  *** AREA SOURCE DATA ***
                  NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM PART. (GRAMS/SPC X Y ELEV. HEIGHT OF AREA OF AREA CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                                           ORIENT. INIT. URBAN EMISSION RATE
OF AREA SZ SOURCE SCALAR VARY
(DEG.) (METERS) BY
10.0
                                                                                      0.00 119.00 119.00
                                                                                                                                0.00
                                                                                                                                            0.00 YES
                                                                                                                                                                10/26/10
                                                                                                                                                                18:02:29
PAGE 4
                                                                                                                                                 ***
                                                                                       FLAT
NODRYDPLT NOWETDPLT
**MODELOPTs: NonDFAULT CONC
                                                        *** SOURCE IDS DEFINING SOURCE GROUPS ***
GROUP ID
ALL VOL1 , AREA1 , *** AERMOD - VERSION 09292 ***
                                                                                                                                                                10/26/10
18:02:29
PAGE 5
                                              *** Site 22 - PM10
**MODELOPTs: NonDFAULT CONC
                                                                                       NODRYDPLT NOWETDPLT
                                                     *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                             *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                       *** X-COORDINATES OF GRID ***
                                                                     (METERS)
        371514.0, 371652.7, 371791.4, 371930.1, 372068.7, 372207.4, 372346.1, 372484.8, 372623.5, 372762.2, 372900.9, 373039.6, 373178.3, 373317.0, 373455.6, 373594.3, 3733733.0, 373871.7, 374010.4, 374149.1, 374287.8,
                                                       *** Y-COORDINATES OF GRID ***
                                                                     (METERS)
3750177.5, 3750306.7, 3750435.9, 3750565.1, 3750694.3, 3750823.5, 3750952.7, 3751081.9, 3751211.0, 3751340.2, 3751469.4, 3751598.6, 3751727.8, 3751857.0, 3751986.2, 3752115.4, 3752244.6, 3752373.8, 3752502.9, 3752632.1, 3752761.3,

*** AERMOD - VERSION 09292 *** ** Site 22 - PM10 ***
                                                                                                                                                                 18:02:29
                                                                                                                                                                 PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                       NODRYDPLT NOWETDPLT
                                                        *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEY, ZHILL, ZFLAG)
(METERS)
      ( 372687.4, 3751957.3,
( 373052.0, 3751954.4,
                                                                                           ( 372914.9, 3751945.6,
( 373154.1, 3752021.5,
                                                                     0.0);
```

```
( 373279.5, 3752047.7, 10.0, 10.0, ( 372789.5, 3751359.3, 10.0, 10.0, ( 372912.0, 3751496.4, 10.0, 10.0, *** AERMOD - VERSION 09292 *** *** Site 22 - PM10
                                                                                                                                                                          ( 372652.4, 3751356.4, 10.0, 10.0, ( 372909.0, 3751359.3, 10.0, 10.0,
                                                                                                                                             0.0);
                                                                                                                                             0.0);
                                                                                                                                             0.0);
                                                                                                                                                                                                                                                                                                              10/26/10
                                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                       NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                                                     *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC)
                                                                                                                            1.54, 3.09, 5.14, 8.23, 10.80,
 *** AERMOD - VERSION 09292 ***
                                                                                        *** Site 22 - PM10
                                                                                                                                                                                                                                                                                                             10/26/10
                                                                                                                                                                                                                                                                                                              18:02:29
                                                                                                                                                                    FLAT
NODRYDPLT NOWETDPLT
 **MODELOPTs: NonDFAULT CONC
                                                                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
      Upper air station no.: 3190
Name: UNKNOWN
...
       Surface station no.: 0
Name: UNKNOWN
                                                             2005
                                             Year:
282.0
                                                                                                                                                                                                                                                                                  281.4
                                                                                                                                                                                                                                                                                  286.4
                                           -1.7 0.045 -9.000 -9.000 -999.

-0.6 0.028 -9.000 -9.000 -9.99.

-0.4 0.022 -9.000 -9.000 -999.

-0.4 0.022 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.9 0.050 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.
 05 01 01
05 01 01
05 01 01
05 01 01
                                                                                                                                                                                           1.00
1.00
1.00
1.00
                                                                                                                                                                                                                                                38.
261.
337.
12.
                                                                                                                                     11.
                                                                                                                                                                                                                                                                                  285.4
                                                                                                                                                             2.8 0.26
2.8 0.26
5.5 0.26
5.5 0.26
                                                                                                                                                                                                                                                360.
 05 01 01
                            1 22
                                                                                                                                      22.
                                                                                                                                                                                           1.00
                                                                                                                                                                                                             1.00
                                                                                                                                                                                                                                  0.80
                                                                                                                                                                                                                                                                      9.1
                                                                                                                                                                                                                                                                                  284.9
 05 01 01 1 23
05 01 01 1 24
                                                                                                                                      26.
                                                                                                                                                             6.2 0.26
5.5 0.26
                                                                                                                                                                                           1.00
                                                                                                                                                                                                                                  0.90
                                                                                                                                                                                                                                                    46.
                                                                                                                                                                                                                                                                                  284.2
 First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
05 01 01 01 01 5.5 0 -999. -990.0 282.6 99.0 -99.00 -99.00
05 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00
 **MODELOPTs: NonDFAULT CONC
                                                                                                                                                                    NODRYDPLT NOWETDPLT
                                                                           *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                      INCLUDING SOURCE(S):
                                                                                      *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                             ** CONC OF PM10. IN MICROGRAMS/M**3
                               X-COORD (METERS)
371513.98 371652.67 371791.36 371930.05 372068.74
    Y-COORD
                                  4.45950 (07021124) 3.25939 (07062224) 6.00395 (07071924) 7.56855 (06062824) 6.92726 (05082524) 4.89697 (05030524) 5.23080 (07021124) 3.94246m(05010924) 7.27360 (06062824) 8.18501 (06062824) 7.36127 (06110124) 5.39092 (05030524) 6.16122 (07021124) 4.92427m(05010924) 9.90501 (06062824) 8.18501 (061010124) 6.93717 (06110124) 7.26401 (07021124) 6.37596m(05010924) 6.02112 (07091324) 6.78401 (07091324) 8.59628 (06110124) 11.08737 (06110124) 8.53329 (07021124) 8.18540 (07020624) 9.21295 (07020624) 8.39160 (07020624) 8.83645 (05092124) 12.75412 (07091324) 6.7171 (06010124) 7.94235 (06010124) 8.80302 (06010124) 8.83645 (05092124) 12.75412 (07091324) 6.7171 (06010124) 7.94235 (06010124) 8.80302 (06010124) 12.05473 (07020624) 16.09302 (07020624) 8.85268 (07110524) 8.95638 (07010624) 8.96583 (07010624) 8.80302 (06010124) 12.95543 (07020624) 16.09302 (07020624) 8.85268 (07112524) 10.50581 (07112524) 12.70477 (07112524) 15.71413 (07112524) 19.97867 (07112524) 8.83698 (0611024) 19.63385m(05012424) 12.70477 (07112524) 15.74131 (07112524) 19.97867 (07112524) 8.83698 (0611024) 19.63385m(05012424) 12.70477 (07112524) 15.74131 (07112524) 19.97867 (07112524) 8.83698 (0611024) 19.63385m(05012424) 12.70477 (07112524) 15.74131 (07112524) 19.97867 (07112524) 8.83698 (0611024) 19.63385m(05012424) 12.70477 (07112524) 15.74131 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (07112524) 19.97867 (0711
  3752632.1
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  3751857.0
  3751727.8
                                        7.49938 (07010624)
8.85268 (07112524)
8.49886 (06110924)
11.53129m(05012424)
10.08872 (06012524)
10.41314 (06020124)
10.12707 (05112924)
11.08903 (06111624)
8.76499 (07123024)
   3751598.6
                                                                                                      10.50581 (07112524)
10.65385m(05012424)
13.33574m(05012424)
11.49222 (07031324)
12.05799 (06020124)
12.14120 (06111624)
10.95716 (07123024)
11.45644 (05111224)
                                                                                                                                                                  12.70477 (07112524)
14.21924m(05012424)
15.18243 (06012524)
13.96692 (07031324)
13.79884 (06122024)
14.09842 (06111624)
13.72494 (05111224)
11.52181 (05120824)
                                                                                                                                                                                                                                 15.71413 (07112524)
19.24081m(05012424)
18.27195 (06012524)
17.33625 (06020124)
18.47182 (06111624)
16.41891 (05111224)
14.38486 (05120824)
13.25007 (05100924)
                                                                                                                                                                                                                                                                                          19.97867 (07112524)
25.64939m(05012424)
21.52917 (07031324)
21.07495 (06122024)
19.29323 (05111224)
18.63517 (05120824)
16.41902 (05100924)
13.44956 (05060724)
   3751469.4
3751340.2
3751211.0
   3751081.9
3750952.7
  3750823.5 |
3750694.3 |
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| 9.62235 (05111224) 9.49360 (05120824)
| 7.99734 (05120824) 9.10454 (05100924)
| 7.71878 (05100924) 7.45634 (05100924)
| 6.77386 (05100924) 7.16149 (05060724)
| VERSION 09292 *** *** Site 22 - PM10
                                                                                                                                                                                                                                                                                                                                                                                                   10.89450 (05100924)
9.19072 (05060724)
7.72923 (05060724)
6.13383 (06030424)
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7.63669 (05091724)
7.02435 (07013024)
6.06812 (07013024)
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8.31502 (05122924)
      3750435.9
    3750306.7 |
3750177.5 |
*** AERMOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6.55410 (06030424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5.92734 (05091724)
      **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                                                                                                      FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                                   *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                            INCLUDING SOURCE(S):
                                                                                                                                                                                                                                                                                                                                                                         VOL1 , AREA1 ,
                                                                                                                                                                                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                                              ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                             X-COORD (METERS)
372207.43 372346.12 372484.81 372623.50 372762.19
          Y-COORD
                                                                          6.15389 (05101024) 8.78183 (06090524) 7.17404 (06090524) 8.31785 (06091124) 9.65954 (07050924) 7.53605 (05101024) 6.72964 (06090524) 10.45417 (06090524) 9.80524 (06091124) 10.82651 (07050924) 8.32912 (05082524) 8.70534 (05101024) 13.36389 (06090524) 11.04554 (06091124) 12.19799 (07050924) 13.34498 (06060524) 11.34850 (05082524) 12.33123 (06090524) 14.13294 (06090524) 14.20724 (07030724) 8.79128 (07071924) 17.39387 (06062824) 13.39568 (05101024) 21.48681 (06090524) 18.25061 (07030724) 10.31724 (05030524) 13.11927 (07071924) 20.93955 (06062824) 26.21462 (06090524) 26.00886 (06091124) 14.75981 (06101024) 19.46453 (06110124) 20.93210 (07071924) 25.03521 (05082524) 46.99461 (06090524) 17.97152 (07020624) 22.53615 (07091324) 33.70838 (06110124) 45.07374 (06062824) 91.97050 (06090524) 20.53955 (05102624) 27.18981 (07030624) 41.56691 (07020624) 45.07374 (06062824) 173.76892m (05090524) 26.78982 (06110924) 38.22252 (06110924) 69.58891m (05012424) 120.74764 (06102244) 53.43769 (07112524) 23.71244 (06102244) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784 (06102224) 47.8784
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13.34498 (05062824)
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14.75981 (06110124)
17.97152 (07020624)
20.59195 (05122624)
22.71264 (06012524)
32.71264 (06012524)
23.736846 (05120824)
25.78892 (0710924)
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9.80524 (06091124)

11.04554 (06091124)

121.48681 (06090524)

26.21462 (06090524)

25.03521 (05082524)

45.07374 (06062824)

45.07374 (06062824)

142.71078m (05012424)

120.47244 (06123024)

68.22771 (05122294)

38.83768 (06120424)

20.79627 (05020424)

20.79627 (05020424)

15.44470 (05020424)
    3752761.3
3752632.1
3752502.9
3752373.8
3752244.6
3752115.4
3751986.2
3751857.0
      3751727.8
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563.43769 (07112524)
145.96420 (06010524)
60.92201 (05020424)
46.34591 (07081524)
38.21963 (07081524)
       3751598.6
                                                                                                                                                                                                                                                                                                                                                                                              69.58891m(05012424)
68.43798 (05121124)
59.42455 (05120824)
42.60771 (05122924)
12.22977 (05112824)
15.06270 (06120424)
12.25852 (05111124)
10.51758 (05020424)
7.40073 (05020424)
6.01663 (06112824)
       3751469.4
3751340.2
3751211.0
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40.31259 (06111624)
36.97875 (05120824)
27.36988 (05122924)
       3751081.9
         | 19.500 (b122924) | 19.51786 (05122924) | 19.51786 (05122924) | 19.51786 (05122924) | 19.51786 (05122924) | 19.51786 (05122924) | 19.51786 (05122924) | 19.51786 (0512924) | 19.51786 (0512924) | 19.51786 (0512924) | 19.51786 (05120424) | 19.51786 (07013024) | 19.51786 (06120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.51786 (05120424) | 19.5
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31.25752 (07081524)
25.98227 (07081524)
12.15376 (07081524)
17.16212 (07081524)
15.43054 (07081524)
14.00390 (07081524)
18:02:29
       3750952.7
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      3750823.5
       3750694.3
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10.39903 (05102624)
9.33607 (05102624)
8.04268 (05102624)
6.67541 (05102624)
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      3750565.1
    3750435.9 |
3750435.9 |
3750306.7 |
3750177.5 |
    **MODELOPTS: NonDEAULT CONC
                                                                                                                                                                                                                                                                                                                                                                                                       FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                                                                     *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                                                                          INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                                     ** CONC OF PM10. IN MICROGRAMS/M**3

X-COORD (METERS)
373039.57 373178.26 373316 94
          Y-COORD (METERS)
                                                                     | 372900.88 373039.57 373178.26 373316.95 373455.64
                                                                                                                                                                                                                                        10.23883 (07083124) 8.38195 (07083124) 7.51513 (05052624) 10.69088 (07071524) 12.54968 (07083124) 10.59023 (05052624) 9.38826 (07071524) 11.63646 (07071524) 15.25062 (07083124) 12.57367 (05053624) 15.40872 (07071524) 11.63646 (07071524) 17.95955 (07083124) 13.22948 (07071524) 15.65160 (07071524) 11.68278 (07071524) 12.035235 (05052624) 24.6086 (07071524) 15.65160 (07071524) 11.68278 (07092824) 28.18686 (05052624) 22.03670 (07071524) 21.49423 (07093824) 28.18686 (05052624) 35.24308 (07092824) 21.49423 (07093824) 28.01949 (06101024) 69.04598 (07092824) 35.24308 (07092824) 44.0371 (06101024) 37.238712 (05081824) 41.05045 (06052024) 27.33503 (06050424) 117.73716 (06060724) 55.89912 (07051524) 38.9467 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (07071524) 37.96726 (0707124) 37.96726 (07071524) 37.96726 (0707124) 37.96726 (0707124) 37.96726 (0707124) 37.96726 (0707124) 37.96726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124) 37.9726 (0707124)
                                                                                                9.15135 (07072624)
10.49087 (06072224)
13.12588 (07083124)
17.46657 (07083124)
24.61927 (07083124)
37.22020 (07083124)
    3752761.3
3752632.1
3752502.9
      3752373.8
| 17.46657 (07083124) | 17.95955 (07083124) | 3752244.6 | 24.61927 (07083124) | 20.35235 (05052624) | 3752115.4 | 37.22020 (07083124) | 28.18686 (05052624) | 3751857.0 | 103.22786 (07083124) | 48.14245 (07071524) | 3751857.0 | 103.22786 (07083124) | 48.14245 (07071524) | 3751827.8 | 256.16875 (07071524) | 142.12261 (06101024) | 3751528.6 | 758.84810 (0606124) | 117.73716 (06060724) | 3751469.4 | 106.82085 (05120324) | 54.14927 (06051424) | 3751340.2 | 58.10128 (07081524) | 27.06035 (05061324) | 3751340.2 | 58.10128 (07081524) | 23.23151 (05120324) | 3751081.9 | 35.99683 (07081524) | 16.55774 (051203324) | 3750952.7 | 29.98205 (07081524) | 13.81027 (05091724) | 3750665.1 | 19.11884 (07081524) | 9.50247 (07120824) | 37506565.1 | 19.11884 (07081524) | 8.88661 (07120824) | 3750356.7 | 15.02413 (07081524) | 4.91848 (07120824) | 3750377.5 | 13.49963 (07081524) | 4.91848 (07120824) | 3750177.5 | 13.49963 (07081524) | 4.91848 (07120824) | 3750177.5 | 13.49963 (07081524) | 4.91848 (07120824) | 3750177.5 | 13.49963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 4.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 34.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 34.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 34.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 34.91848 (07120824) | 3750177.5 | 34.4963 (07081524) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (07120824) | 34.91848 (
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5.11011 (05081524)
4.53896 (06072824)
10/26/10
18:02:29
PAGE 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.50384 (0.0522
3.95431 (05091724)
***
      **MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                                                                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                                                                                                                  *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREAl \, ,
                                                                                                                                                                                                                                                                                                                                                                           VOL1 , AREA1 ,
                                                                                                                                                                                                                *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                                                                                                                 ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                             X-COORD (METERS)
373594.33 373733.02 373871.71 374010.40 374149.09
          Y-COORD
                                                                                                        7.02677 (07071524) 5.24208 (06051624) 7.03784 (07092824) 5.35770 (06081224) 6.22154 (06101024) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (07071524) 7.02677 (0707
                                                                                                                                                                                                                                                                                                                                                                                    7.03784 (07092824)
6.37728 (05081224)
10.06235 (06101024)
14.37004 (06101024)
15.64244 (06101024)
12.49508 (06052024)
13.03883 (05081824)
11.37786 (06050424)
11.37786 (06050424)
11.37787 (07051524)
9.64984 (07110724)
6.48857 (07110724)
7.61404 (05070224)
7.61404 (05070224)
7.40257 (06051424)
5.34488 (07013024)
                                                                                                7.02677 (07071524)
5.83942 (06051624)
10.01613 (07092824)
10.10112 (07092824)
18.74613 (06101024)
26.50031 (06101024)
20.37099 (06052024)
25.58107 (05081824)
20.15607 (06050424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.22154 (06101024)
9.19469 (06101024)
10.28276 (06101024)
11.54256 (06101024)
8.59178 (06052024)
10.42773 (05090224)
9.46237 (06050424)
9.46237 (06050424)
7.52610 (07051524)
                                                                                                                                                                                                                                                   5.24208 (06051624)

8.45033 (07092824)

7.76421 (06081224)

13.42115 (06101024)

19.06621 (06101024)

19.06621 (06101024)

16.76797 (05081824)

19.04467 (05081824)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7.80604 (06101024)
11.32349 (06101024)
13.07922 (06101024)
11.89760 (06101024)
10.41914 (05090224)
13.67924 (05081824)
10.47745 (06050424)
    3752632.1
3752502.9
3752373.8
       3751857.0
      3751727.8
                                                                                                                                                                                                                                                      15.03730 (06050424)
13.90005 (07051524)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8.75829 (06050424)
9.01304 (07051524)
       3751598.6
                                                                                                     18.14458 (07051524)
                                                                                                18.1458 (07051524)
14.27807 (06060724)
13.08159 (07110724)
11.30474 (05070224)
11.25122 (06051424)
8.43780 (07013024)
6.565511 (07092724)
6.68023 (07092724)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.01304 (07051524)

8.32045 (07051524)

8.58725 (07110724)

8.03939 (07110724)

6.31072 (05070224)

5.50986 (05070224)

6.42563 (06051424)

5.83438 (05082324)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7.52610 (07051524)
7.28785 (07051524)
6.16501 (07090724)
7.42731 (07110724)
4.50166 (07111824)
5.49488 (05070224)
4.41195 (06051424)
5.28659 (06051424)
      3751398.0
3751469.4
3751340.2
3751211.0
                                                                                                                                                                                                                                                      11.44144 (06051424)
12.73172 (07110724)
9.27853 (05070224)
7.68084 (06051424)
       3751081.9
3750952.7
                                                                                                                                                                                                                                                           8.08911 (05082324)
6.63212 (07013024)
5.14585 (05062324)
      3750823.5 |
3750694.3 |
```

```
| 8.83596 (07090824) 6.42741 (07092724)
| 7.85597 (07090824) 5.61873 (07090824)
| 3.70900 (07081224) 8.69944 (07090824)
| 3.78072 (06072724) 5.63321 (07090824)
| VERSION 09292 *** *** Site 22 - PM10
                                                                                                    4.46396 (05062324)
5.52730 (07092724)
4.11137 (06071724)
7.12230 (07090824)
3750565.1 |
                                                                                                                                           4.39820 (07013024)
3.82898 (05062324)
                                                                                                                                                                                4.95018 (05082324)
3.68292 (07013024)
3750435.9
3750306.7
3750177.5
*** AERMOD
                                                                                                                                                                                3.33270 (06081624)
3.44760 (07092724)
10/26/10
18:02:29
                                                                                                                                           4.44014 (07092724)
3.62417 (07092724)
**MODELOPTS: NonDFAULT CONC
                                                                                                    FLAT
                                                                                                    NODRYDPLT NOWETDPLT
                                             *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                   INCLUDING SOURCE(S):
                                                                                            VOL1 , AREA1 ,
                                                   *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                            ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                                             X-COORD (METERS)
                           374287.78
                          7.60963 (06101024)
3752632.1
                          8.42140 (05082724)
                         8.42140 (05082724)

9.77224 (06101024)

8.14602 (06042824)

7.64892 (07032124)

9.04764 (05081824)

9.31880 (05081824)

8.35778 (06050424)

5.63928 (06042124)

6.39693 (07051524)
3752632.1
3752502.9
3752373.8
3752244.6
3752115.4
3751986.2
3751857.0
3751727.8
3751598.6
3751358.0
3751469.4
3751340.2
3751211.0
3751081.9
                          6.38944 (07051524)
5.57049 (06051424)
5.91299 (07110724)
5.16603 (07110724)
3750952.7
                          4.64116 (05070224)
3750952.7 4.04116 (050/0224)

3750894.3 4.49267 (06051424)

375065.1 4.25005 (06051424)

3750435.9 4.22406 (05082324)

3750306.7 3.13009 (07013024)

*** AERMOD - VERSION 09292 *** *** Site 22 - PM10
                                                                                                                                                                                        10/26/10
                                                                                                                                                                                        18:02:29
                                                                                                                                                                                        PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                    NODRYDPLT NOWETDPLT
                                             *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                   {\tt INCLUDING\ SOURCE(S):} \qquad {\tt VOL1} \qquad , \ {\tt AREA1} \qquad ,
                                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                            ** CONC OF PM10. IN MICROGRAMS/M**3
      X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

372687.37 3751957.29 43.16176 (06090524) 372914.88 3751945.62 67.99031 (07083124)
373051.97 3751954.38 47.25688 (07071524) 373154.06 3752021.46 29.88416 (07092824)
373279.49 3752047.71 23.68476 (07092824) 372652.37 3751356.42 67.22214 (05122924)
372278.46 3751359.34 106.00742 (07081524) 372699.05 3751359.34 51.31861 (05120324)
372911.97 3751496.43 114.55775 (05120324)

AREMOD - VERSION 09292 *** Site 22 - PM10 *** 18:0
372911.97 3751496.43
*** AERMOD - VERSION 09292 ***
                                                                                                                                                                                        10/26/10
                                                                                                                                                                                        18:02:29
                                                                                                                                                                                        PAGE 15
**MODELOPTs: NonDFAULT CONC
                                                                                                    FLAT
                                                                                                    NODRYDPLT NOWETDPLT
                                                                         *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
                                                     ** CONC OF PM10. IN MICROGRAMS/M**3
                                                                               NETWORK
YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
                                                  AVERAGE CONC (YYMMDDHH)
       HIGH 1ST HIGH VALUE IS 758.84810 ON 06051424: AT ( 372900.88, 3751598.61, 10.00, 10.00, 0.00) GC UCART1
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Site 22 - PM10
                                                                                                                                                                                        10/26/10
                                                                                                                                                                                        18:02:29
**MODELOPTs: NonDFAULT CONC
                                                                                                    FLAT
NODRYDPLT NOWETDPLT
*** Message Summary : AERMOD Model Execution ***
 ----- Summary of Total Messages -----
                         0 Fatal Error Message(s)
A Total of
A Total of
                           0 Warning Message(s)
152 Informational Message(s)
                   26280 Hours Were Processed
A Total of
                   15 Calm Hours Identified
A Total of
                            137 Missing Hours Identified ( 0.52 Percent)
    ****** FATAL ERROR MESSAGES *******

*** NONE ***
     ****** WARNING MESSAGES ******
                            NONE
     ********
```

```
**
** AERMOD Input Produced by:

** AERMOD View Ver. 6.7.1

** Lakes Environmental Software Inc.

** Date: 10/26/2010

** File: C:\Documents and Settings\jbailey\Desktop\Site 22\PM25.ADI

**
 ************
 ** AERMOD Control Pathway
      STARTING
TITLEONE Site 22 - PM2.5
MODELOPT CONC NODRYDPLT NOWETDPLT FLAT
AVERTIME 24 ANNUAL
URBANOPT 9862049 Los_Angeles_County
      POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
 **********
** AERMOD Source Pathway
**
SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION YOLI VOLUME 372838.810 3751633.020 0.0

** DESCRSCE Equipment
LOCATION AREAL AREA 372780.513 3751574.723 0.0

** DESCRSCE Equipment

** Source Parameters **
SRCPARAM AREAL 0.0000101052 0.000 119.000 119.000 0.000
URBANSRC VOLI
URBANSRC VOLI
URBANSRC VOLI
URBANSRC AREAL
SRCGROUP ALL
      SRCGROUP ALL
 SO FINISHED
 ......
RE STARTING
GRIDCART UCARTI STA

XYINC 371513.98 21 138.69 3750177.52 21 129.19
GRIDCART UCARTI END
** DESCREC ** **
DISCCART 372687.37 3751957.29
DISCCART 373914.88 3751945.62
DISCCART 373154.06 3752021.46
DISCCART 373154.06 3752021.46
DISCCART 373179.49 3752047.71
DISCCART 37279.49 375126.42
DISCCART 372789.46 3751356.42
DISCCART 372789.46 3751359.34
DISCCART 372789.46 3751359.34
DISCCART 372909.05 3751359.34
DISCCART 372911.97 3751496.43
RE FINISHED
RE STARTING
 RE FINISHED
 *************
 ** AERMOD Meteorology Pathway
     STARTING
SURFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC*
PROFFILE *L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL*
SURFDATA 0 2005
PROFBASE 10 METERS
FINISHED
 ME FINISHED
 ...........
 ** AERMOD Output Pathway
**
**
OU STARTING
     STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
PLOTPILE ANNUAL ALL PM25.AD\ANOUGALL.PLT
OU FINISHED
  ********
  *** SETUP Finishes Successfully ***
  18:10:14
  **MODELOPTS: NonDFAULT CONC
                                                                                                               FLAT
NODRYDPLT NOWETDPLT
  *** MODEL SETUP OPTIONS SUMMARY
  **Model Is Setup For Calculation of Average CONCentration Values.
  -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Mod luses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
```

```
**Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
  for Total of 1 Urban Area(s):
Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
**Model Allows User-Specified Options:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 24-HR and Calculates ANNUAL Averages
**This Run Includes: 2 Source(s);
                                                   1 Source Group(s); and 450 Receptor(s)
**The Model Assumes A Pollutant Type of: PM2.5
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
           Options Selected.

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                               m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00; Decay Coef. = 0.000; Rot. Angle = Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model = 3.6 MB of RAM.
10/26/10
                                                                                                                                                    18:10:14
PAGE 2
**MODELOPTS: NonDFAULT CONC
                                                                                NODRYDPLT NOWETDPLT
                                                             *** VOLUME SOURCE DATA ***
                NUMBER EMISSION RATE BASE RELEASE INIT. URBAN EMISSION RATE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
                 PART. (GRAMS/SEC) X Y ELEV. HBIGHT SY SZ CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                            BY . . . . . . . . . . . . . . . . .
    4.10 27.67
                                                                                                                                                    18:10:14
                                                                                                                                                    PAGE
**MODELOPTs: NonDFAULT CONC
                                                                                FLAT
                                                                                NODRYDPLT NOWETDPLT
                                                             *** AREA SOURCE DATA ***
                                                                                                                   ORIENT. INIT. URBAN EMISSION RATE
OF AREA SZ SOURCE SCALAR VARY
(DEG.) (METERS) BY
                NUMBER EMISSION RATE COORD (SW CORNER) BASE
                                                                              RELEASE X-DIM
SOURCE PART. (GRAMS/SEC X Y ELEV. HEIGHT OF AREA OF AREA ID CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
                                                                                                                 OF AREA
    0.00 YES
                                                                                                                                                    18:10:14
                                                                                                                                                    PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                FLAT
                                                                                NODRYDPLT NOWETDPLT
                                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***
                                                                    SOURCE IDs
GROUP ID
ALL VOL1 , AREA1 , *** AERMOD - VERSION 09292 ***
                                          *** Site 22 - PM2.5
                                                                                                                                                    18:10:14
**MODELOPTS: NonDEAULT CONC
                                                                                NODRYDPLT NOWETDPLT
                                                 *** GRIDDED RECEPTOR NETWORK SUMMARY ***
                                         *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                   *** X-COORDINATES OF GRID ***
       371514.0, 371652.7, 371791.4, 371930.1, 372068.7, 372207.4, 372346.1, 372484.8, 372623.5, 372762.2, 372900.9, 373039.6, 373178.3, 373317.0, 373455.6, 373594.3, 373733.0, 373871.7, 374010.4, 374149.1, 374287.8,
                                                   *** Y-COORDINATES OF GRID ***
      3750177.5, 3750306.7, 3750435.9, 3750565.1, 3750694.3, 3750823.5, 3750952.7, 3751081.9, 3751211.0, 3751340.2, 3751469.4, 3751598.6, 3751727.8, 3751857.0, 3751986.2, 3752115.4, 3752244.6, 3752373.8, 3752502.9, 3752632.1,
      3752761.3.
10/26/10
                                                                                                                                                    18:10:14
**MODELOPTS: NonDFAULT CONC
                                                                                FLAT
NODRYDPLT NOWETDPLT
                                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
```

```
( 372687.4, 3751957.3,
                                                                    10.0,
                                                                                       0.0);
                                                                                                            ( 372914.9, 3751945.6,
                                                                                                                                                                          10.0,
                                                                                                                                                                                             0.0);
                                                                                                                                                         10.0,
      (37305.2.0, 3751954.4, 10.0, 10.0, (373279.5, 3752047.7, 10.0, 10.0, (372789.5, 3751359.3, 10.0, 10.0, (372912.0, 3751496.4, 10.0, 10.0, ARRMOD - VERSION 09292 *** Site 22 - PM2.5
                                                                                                             ( 373154.1, 3752021.5,
( 372652.4, 3751356.4,
( 372909.0, 3751359.3,
                                                                                                                                                         10.0,
10.0,
10.0,
                                                                                       0.0);
                                                                                                                                                                           10.0,
                                                                                                                                                                                              0.0);
                                                                                                                                                                                           18:10:14
                                                                                                                                                                                           PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                     NODRYDDIA NOWETDDIA
                                                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                                                  (1=YES; 0=NO)
                 1111111111 11111
                        NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
                                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                                                             (METERS/SEC)
18:10:14
                                                                                                                                                                                           PAGE
**MODELOPTS: NonDFAULT CONC
                                                                                                    FLAT
                                                                                                    NODRYDPLT NOWETDPLT
                                                     *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
   Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.SFC Met Version: 06341 Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\laxh.PFL Surface format: FREE
   Profile format: FREE
   Surface station no.: 0
Name: UNKNOWN
Year: 2005
                                                                          Upper air station no.:
                                                                                                        Name: UNKNOWN
Year: 2005
                        of scalar data

H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD

-3.3 0.062 -9.000 -9.000 -999. 35. 6.5 0.26 1.00 1.00 1.00 1.30 51.
-2.7 0.056 -9.000 -9.000 -999. 45. 8.9 0.26 1.00 1.00 1.00 1.30 51.
-2.7 0.056 -9.000 -9.000 -999. 30. 5.9 0.26 1.00 1.00 1.00 1.00 48.
-2.3 0.056 -9.000 -9.000 -999. 30. 6.8 0.26 1.00 1.00 1.00 1.00 52.
-2.8 0.062 -9.000 -9.000 -999. 35. 7.5 0.26 1.00 1.00 1.00 1.00 52.
-3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.01 1.06 52.
-3.9 0.067 -9.000 -9.000 -999. 51. 8.2 0.26 1.00 1.00 1.20 55.
-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 1.00 1.20 55.
-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.00 1.20 55.
-4.9 0.078 -9.000 -9.000 -999. 51. 8.8 0.26 1.00 0.53 1.40 76.
45.2 0.282 0.524 0.005 115. 344. -44.6 0.26 1.00 0.53 1.40 76.
114.4 0.293 1.397 0.005 862 365. -19.9 0.26 1.00 0.22 2.10 83.
139.9 0.299 1.673 0.010 1215. 125. -10.8 0.26 1.00 0.19 2.10 83.
First 24 hours of scalar data
YR MO DY JDY HR HO U*
                                                                                                                                                                 HT REF TA
05 01 01
05 01 01
05 01 01
05 01 01
05 01 01
                                                                                                                                                                         282 5
                                                                                                                                                                         282.5
282.0
281.4
280.9
281.4
05 01 01
                 1 06
                                                                                                                                                                         280.9
05 01 01
                                                                                                                                                                         280.4
05 01 01
                 1 08
                                                                                                                                                                         280.9
05 01 01
05 01 01
05 01 01
05 01 01
                                                                                                                               0.19
05 01 01
                                                                                 125.
                                                                                              -10.8
                                                                                                        0.26
                                                                                                                   1.00
                                                                                                                                           0.80
05 01 01
                                                                                              -35.4 0.26
                                                                                 241.
                                                                                                                   1.00
                                                                                                                              0.18
                                                                                                                                           1.70
                                                                                                                                                    184.
                                                                                                                                                                         287.0
05 01 01
                                                                                 298.
                                                                                              -84.4
                                                                                                        0.26
                                                                                                                   1.00
                                                                                                                               0.19
05 01 01
05 01 01
05 01 01
05 01 01
                                                                                          -268.6
-5231.4
4.9
3.4
                                                                                                        0.26
0.26
0.26
0.26
                                                                                 256.
                                                                                                                   1.00
                                                                                                                               0.22
                                                                                                                                                     205.
                                                                                8.
                                                                                                                                                    261.
05 01 01
                                                                                                 2.8 0.26
                                                                                                                   1.00
                                                                                                                              1.00
                                                                                                                                           0.40
                                                                                                                                                                         284.9
                                                                                                                                                                                       5.5
                          -0.4 0.022 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.

-1.9 0.050 -9.000 -9.000 -999.

-1.5 0.045 -9.000 -9.000 -999.
05 01 01
                 1 20
                                                                                                 2.8 0.26
                                                                                                                   1.00
                                                                                                                              1.00
                                                                                                                                           0.40
                                                                                                                                                    337.
                                                                                                                                                                         284.9
                                                                                                 5.5 0.26
5.5 0.26
6.2 0.26
5.5 0.26
05 01 01
                 1 21
                                                                                                                   1.00
05 01 01
05 01 01
05 01 01
05 01 01
               1 22
1 23
1 24
                                                                                  22.
26.
22.
                                                                                                                   1.00
1.00
1.00
                                                                                                                                           0.80
0.90
0.80
                                                                                                                                                    360
First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
05 01 01 01 01 5.5 0 -999. 0 282.6 99.0 -99.00 -99.00
05 01 01 01 01 9.1 1 52. 1.10 -999.0 99.0 -99.00 -99.00
18:10:14
                                                                                                                                                                                           PAGE
**MODELOPTS: NonDEAULT CONC
                                                                                                     NODRYDPLT NOWETDPLT
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                             VOL1 , AREA1 ,
                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                           ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                 X-COORD (METERS)
    Y-COORD (METERS)
                    | 371513.98 371652.67 371791.36 371930.05 372068.74 372207.43 372346.12 372484.81 372623.50
                               0.06110
0.06824
0.07742
                                                                                            0.09173
0.09809
0.10934
                                                                                                                                                           0.14573
0.16999
0.20217
                                                                                                                                                                                0.16165
0.19775
0.24351
                                                                                                                                                                                                    0.17655
0.21638
0.27591
                                                    0.06922
  3752373.75
                                                    0.08587
                                                                        0.09437
                                                                                                                  0.12929
                                                                                                                                      0.16273
  3752244.56
                               0.08517
                                                    0.09649
                                                                        0.11088
                                                                                            0.12495
                                                                                                                  0.14634
                                                                                                                                      0.18018
                                                                                                                                                           0.23767
                                                                                                                                                                                0.30397
                                                                                                                                                                                                    0.36867
  3752115.37
                               0.09975
                                                    0.11135
                                                                         0.12647
                                                                                             0.14824
                                                                                                                  0.17510
0.21364
                                                                                                                                       0.20995
                                                                                                                                                           0.27305
                                                                                                                                                                                0.38499
                                                                                                                                                                                                    0.51430
  3751986.18
                                0.12017
                                                    0.13642
                                                                         0.15561
                                                                                                                                       0.26458
                                                                                                                                                                                0.47615
                                                                                                                                                                                                    0.74794
  3751856.99
3751727.80
3751598.61
                               0.13955
0.16971
0.20530
                                                    0.13042
0.16263
0.20040
0.24702
                                                                        0.19280
0.24134
0.30473
                                                                                             0.23241
0.29805
0.38845
                                                                                                                  0.28456
0.38065
0.51793
                                                                                                                                      0.35560
0.50923
0.73727
                                                                                                                                                           0.46429
0.72592
1.16384
                                                                                        0.23241
0.29805
0.38845
0.48997
0.63677
0.74916
0.75315
                                                                                                                                                                                0.65484
  3751469.42
                               0.23043
                                                    0.28540
                                                                        0.36585
                                                                                                                  0.69410
                                                                                                                                                           1.81677 2.05557
                                                                                                                                                                                3.53736
                                                                                                                                                                                                    6.82719
  3751340.23
                               0.28504
                                                    0.36089
                                                                        0.46997
                                                                                                                                       1.36487
                                                                                                                                                                                2.78462
                                                                                                                                                                                                    2.69117
  3751211.04 |
3751081.85 |
                               0.33809
                                                    0.42800
                                                                        0.55934
                                                                                                                  1.00656
                                                                                                                                       1.30178
                                                                                                                                                           1.54425
                                                                                                                                                                                1.51348
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3750952.66 |
                                                           0.57810
                                                                                                                               0.62464
                          0.41402
  3750823.47
                          0.40603
                                          0.45618
                                                           0.49995
                                                                            0.53160
                                                                                              0.53014
                                                                                                              0.48337
                                                                                                                               0.42350
                                                                                                                                                0.34401
                                                                                                                                                                 0.26645
  3750694.28
                          0.36923
                                           0.39692
                                                           0.41695
                                                                            0.41703
                                                                                              0.38692
                                                                                                              0.34958
                                                                                                                               0.29969
                                                                                                                                                0.24568
                                                                                                                                                                 0.19880
  3750565.09
                          0.32396
                                           0.33748
                                                            0.33825
                                                                             0.31822
                                                                                              0.29127
                                                                                                              0.26203
                                                                                                                                0.22265
                                                                                                                                                0.18304
3750435.90 | 0.32396
3750435.90 | 0.27987
3750306.71 | 0.23777
3750177.52 | 0.19778
*** AERMOD - VERSION 09292 ***
                                                                                                                               0.17281
0.13688
0.11022
                                                                                                                                                0.14219
0.11501
0.09602
                                          0.18476
*** Site 22
***
                                                                                                                                                    10/26/10
18:10:
                                                                                                                                                         PAGE 10
**MODELOPTS: NonDEAULT CONC
                                                                                   NODRYDPLT NOWETDPLT
                        *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                          INCLUDING SOURCE(S):
                                                                             VOL1 , AREA1
                                            *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                X-COORD (METERS)
                                         372900.88 373039.57 373178.26 373316.95 373455.64 373594.33 373733.02 373871.71
                       372762.19
                                     372900.88 373039.57
    (METERS)
 3752632.13
3752502.94
3752373.75
                          0.17608
0.21392
0.26639
0.34255
                                          0.19910
0.24490
0.31036
0.40926
                                                           0.20803
0.25695
0.32854
0.43870
                                                                            0.27048
0.33972
0.43414
                                                                                             0.25708
0.31574
0.41016
                                                                                                              0.24552
0.30678
0.40109
                                                                                                                               0.19810
0.23861
0.30250
0.40792
                                                                                                                                                0.19186
0.23818
0.30759
0.41472
                                                                                                                                                                 0.19349
0.24161
0.31325
0.40735
                                                                            0.58423
                                                                                              0.56515
                                                                                                              0.57278
                                                                                                                               0.57906
  3752244.56
                          0.46069
                                          0.57066
                                                            0.61628
                                                                                                                                                0.55289
                                                                                                                                                                 0.49441
 3752115.37
                          0.66414
                                          0.86678
                                                            0.92030
                                                                            0.86965
                                                                                              0.87596
                                                                                                              0.87233
                                                                                                                               0.79034
                                                                                                                                                0.65756
                                                                                                                                                                 0.52033
  3751986.18
                          1.07764
                                          1.52090
                                                                             1.54422
                                                                                              1.47378
                                                                                                              1.19976
                                                                                                                               0.88399
                                                                                                                                                0.63712
                                                                                                                                                                 0.47171
 3751856.99
3751727.80
3751598.61
                                                            3.61815
8.26645
3.96941
                                                                             2.99333
3.11689
1.67660
                                                                                              1.92248
1.51566
0.96108
                                                                                                                               0.77085
0.60054
0.45556
                                                                                                                                                0.54012
0.43432
0.34561
                          2.15312
                                           3 53587
                         6.83071
43.13225
                                         21.36524
75.28213
                                                                                              0.56631
                                                                                                                               0.32464
                                                                                                                                                0.26007
  3751469.42
                          6.35521
                                          2.77778
                                                            1.33490
                                                                             0.83069
                                                                                                              0.41929
                                                                                                                                                                 0.21382
  3751340.23
                          1.62374
                                          1.08585
                                                            0.76320
                                                                            0.49513
                                                                                              0.38700
                                                                                                              0.29418
                                                                                                                               0.23648
                                                                                                                                                0.19770
                                                                                                                                                                 0.16797
  3751211.04
                          0.76284
                                          0.58991
                                                            0.51896
                                                                             0.34226
                                                                                              0.26726
                                                                                                              0.23173
                                                                                                                               0.18979
                                                                                                                                                0.15546
                                                                                                                                                                 0.13349
  3751081.85
                          0.46120
                                          0.37973
                                                            0.34279
                                                                             0.29084
                                                                                              0.19718
                                                                                                                               0.15571
                                                                                                                                                0.13558
                          0.31566
0.23225
0.17953
                                          0.26771
0.20068
0.15725
                                                            0.24145
0.18454
0.14745
                                                                                              0.17766
0.16046
0.13949
                                                                                                                                                0.11281
0.08982
0.07229
  3750952.66
                                                                             0.23608
                                                                                                              0.13061
                                                                                                                                0.12007
                                                                                                                                                                 0.10166
 3750823.47
3750694.28
                                                                                                                               0.09437
                          0.14390
                                                                                                                                                0.06559
  3750565.09
                                           0.12735
                                                            0.12056
                                                                             0.11036
                                                                                              0.11551
                                                                                                              0.10403
                                                                                                                               0.08343
                                                                                                                                                                 0.05767
  3750435.90
                          0.11854
                                           0.10577
                                                            0.10023
                                                                             0.09304
                                                                                              0.09302
                                                                                                              0.09380
                                                                                                                               0.07898
                                                                                                                                                0.06436
                                                                                                                                                                 0.05183
3750306.71 0.09975
3750177.52 0.08535
*** AERMOD - VERSION 09292 ***
                                           0.08960
                                                            0.08456
                                                                             0.08060
                                                                                              0.07620
                                                                                                              0.08166
                                                                                                                               0.07397
                                                                                                                                                0.06200
                                                                                                                                                                 0.05105
                                          0.07712 0.07234
*** Site 22 - PM2.5
                                                                            0.07076
                                                                                              0.06495
                                                                                                                               0.06824
                                                                                                                                                0.05899
                                                                                                                                                  10/26/10
18:10:14
PAGE 11
**MODELOPTs: NonDFAULT CONC
                                                                                  FLAT
                                                                                   NODRYDPLT NOWETDPLT
                       *** THE ANNUAL AVERAGE CONCENTRATION
                                                                           VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                           *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
    Y-COORD
                                                                             X-COORD (METERS)
                   374010.40 374149.09 374287.78
  3752632.13
                          0.24605
                                          0.24832
                                                           0.24221
  3752502.94
                          0.31286
                                          0.29990
                                                            0.27828
                          0.38024
0.42144
0.40606
0.36254
                                          0.34103
0.34845
0.32163
0.28717
  3752373.75
                                                            0.29650
                                                            0.28529
0.26105
0.23286
 3751856.99
                          0.30882
                                          0.24683
                                                           0.20279
  3751727.80
                          0.26254
                                          0.21409
                                                            0.17851
  3751598.61
                          0.22166
                                           0.18434
                                                            0.15615
                                          0.15321
0.12620
0.10483
0.08725
  3751469.42
                          0.17945
                                                            0.13010
                          0.17945
0.14467
0.11782
0.09813
  3750952.66
                          0.08993
                                           0.07768
                                                            0.06852
  3750823.47
                          0.07905
                                           0.07237
                                                            0.06433
 3750694.28
                          0.06846
                                           0.06344
                                                            0.05918
3750694.28 | 0.06846
3750565.09 | 0.05662
3750435.90 | 0.04739
3750306.71 | 0.04234
3750177.52 | 0.04141
*** AERMOD - VERSION 09292 ***
                                          0.05594
0.04682
0.03981
                                                            0.05230
0.04672
0.03949
                                          10/26/10
                                                                                                                                                         18:10:14
                                                                                                                                                         PAGE 12
**MODELOPTS: NonDEAULT CONC
                                                                                   NODRYDPLT NOWETDPLT
                        *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL
                                                                                     , AREA1 ,
                                          INCLUDING SOURCE(S):
                                                                             VOL1
                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
                              OORD (M) CUNC 0.99433
       X-COORD (M) Y-COORD (M)
                                                                                     X-COORD (M) Y-COORD (M)
                                                                                                                                CONC
                                                                                        372914.88 3751945.62
373154.06 3752021.46
                                         0.99433
1.83418
1.15558
1.67720
3.40589
*** Site 22 - PM2.5
          372687.37 3751957.29
373051.97 3751954.38
                                                                                                                                1.92953
372687.37 3751957.29

373051.97 3751954.38

373279.49 3752047.71

372789.46 3751359.34

372911.97 3751496.43

*** AERMOD - VERSION 09292 ***
                                                                                        373154.06
372652.37
372909.05
                                                                                                         3751343.62
3752021.46
3751356.42
3751359.34
                                                                                                                                1.28763
                                                                                                                                                         18:10:14
                                                                                                                                                         PAGE 13
**MODELOPTS: NonDFAULT CONC
                                                                                   NODRYDPLT NOWETDPLT
                                      *** THE 1ST HIGHEST 24-HR A INCLUDING SOURCE(S):
                                                  1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                            VOL1 , AREA1
                                            *** NETWORK ID: HCART1 ; NETWORK TYPE: GRIDCART ***
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** CONC OF PM2.5 IN MICROGRAMS/M**3
                                          X-COORD (METERS)
371513.98 371652.67 371791.36 371930.05 372068.74
    Y-COORD
                                                         0.95549 (07021124) 0.73133m(05010924) 1.28951 (07071924) 1.64404 (06062824) 1.08772 (05030524) 1.11816 (07021124) 0.88782m(05010924) 1.54744 (07071924) 1.60509 (06110124) 1.19585 (05030524) 1.31338 (07021124) 1.10757m(05010924) 1.15544 (06062924) 1.91546 (06110124) 1.55490 (06110124) 1.54347 (07021124) 1.30578 (07091324) 1.48424 (07091324) 1.83966 (06110124) 2.44011 (06110124) 1.25073 (05092124) 1.2023 (05092124) 1.81940 (07091324) 2.07039 (07091324) 1.74828 (07020624) 1.99971 (07020624) 1.85399 (07020624) 1.93343 (05092124) 1.86385 (0610124) 2.59153 (07020624) 1.63916 (07010624) 2.59153 (07020624) 1.95990 (07010624) 2.35955 (07010624) 2.4637 (07010624) 1.95485 (07112524) 2.31923 (07112524) 2.80343 (07112524) 3.46634 (07112524) 2.86387 (070112524) 2.38538 (05110224) 3.46634 (07112524) 3.46638 (07112524) 3.46638 (07112524) 3.4679m(05012424) 3.4675m(05012424)
                                                                                                                                                                                                                                                                                                                                                                                           1.52104 (05082524)
1.79821 (06062824)
2.11149 (06062824)
  3752632.1
 3752502.9
                                                                                                                                                                                                                                                                                                                                                                                                       2.11149 (06062824)

1.43195m(05010924)

1.80333 (07021124)

3.23310 (06110124)

2.76579 (07091324)

3.49592 (07020624)

3.62274 (05122624)

4.40636 (07112524)
 3752373.8
                                                         1.16544 (06062924)

1.30578 (07091324)

1.21507 (05092124)

1.74828 (07020624)

1.48554 (06010124)

1.63916 (07010624)

1.95485 (07112524)

1.86385 (06110924)

2.2399 (06012524)

2.22099 (06012524)

2.26236 (06020124)

2.21913 (05112924)

2.40438 (06111624)

1.91784 (07113024)
  3752244 6
 3752244.6
3752115.4
3751986.2
3751857.0
3751727.8
  3751598.6
                                                                                                                                            2.31923 (07112524)
2.38535m(05012424)
2.93358m(05012424)
2.50778 (07031324)
2.62221 (06020124)
2.63586 (06111624)
2.39221 (07123024)
                                                                                                                                                                                                                                 2.80343 (07112524)
3.16479m(05012424)
3.33269 (06012524)
3.04382 (07031324)
3.07370 (06111624)
2.99101 (05111224)
                                                                                                                                                                                                                                                                                                                     3.46634 (07112524)
4.25759m(05012424)
4.01233 (06012524)
3.77440 (06020124)
4.01073 (06111624)
3.57663 (05111224)
3.17071 (05120824)
                                                                                                                                                                                                                                                                                                                                                                                                         5.65144m(05012424)
  3751469.4
                                                                                                                                                                                                                                                                                                                                                                                                        5.65144m(05012424)
4.69771 (07031324)
4.63708 (06122024)
4.20744 (05111224)
4.10570 (05120824)
3.60162 (05100924)
  3751340 2
3750823.5 | 2.40438 (U0111624) 2.39221 (U7123024) 3750694.3 | 1.91784 (U7123024) 2.49909 (U05111224) 37506565.1 | 2.10153 (U05111224) 2.09337 (U05120824) 3750435.9 | 1.77427 (U07070124) 1.99460 (U05100924) 375017.5 | 1.69172 (U05100924) 1.64484 (U05100924) 375017.5 | 1.49047 (U05100924) 1.55192 (U05060724) *** AERMOD - VERSION 09292 *** *** Site 22 - PM2.5
                                                                                                                                                                                                                                2.54027 (0511224)
2.38644 (05100924)
1.98395 (05060724)
1.68213 (05060724)
1.34452 (06030424)
                                                                                                                                                                                                                                                                                                                                                                                                       3.60162 (05100924)
2.91616 (05060724)
2.13256 (05122924)
1.65470 (05091724)
1.53211 (07013024)
1.34738 (07013024)
10/26/10
                                                                                                                                                                                                                                                                                                                   2.90334 (U32.2
2.43070 (05060724)
1.84094 (05122924)
1.44687 (06030424)
1.28635 (05091724)
***
                                                                                                                                                                                                                                                                                                                                                                                                                         18:10:14
                                                                                                                                                                                                                                                                                                                                                                                                                         PAGE 14
**MODELOPTs: NonDFAULT CONC
                                                                                                                                                                                                                              FLAT
                                                                                                                                                                                                                              NODRYDPLT NOWETDPLT
                                                                                                     *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                                                                                       *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                    ** CONC OF PM2.5 IN MICROGRAMS/M**3
   (METERS)
                                       372207.43 372346.12 372484.81 372623.50 372762.19
                                                        2.06892 (07050924)
2.31728 (07050924)
3.16226 (07030724)
4.05902 (07030724)
5.86267 (06091124)
10.68882 (06090524)
20.54700 (06090524)
20.54700 (06090524)
38.68342m(05010924)
118.43837 (07112524)
32.98211 (06010524)
13.82584 (05020424)
9.93573 (07081524)
8.23756 (07081524)
6.76306 (07081524)
5.62908 (07081524)
 3752632.1
3752502.9
3752373.8
3752244.6
 3752115.4
3752115.4
3751986.2
3751857.0
3751727.8
3751598.6
3751469.4
3751340.2
  3751211.0
3751081.9
 3750952.7
                                                                                                                                                                                                                                                                                                                                                                                                         5.62908 (07081524)
4.80029 (07081524)
4.18679 (07081524)
 3.71581 (07081524)
                                                                                                                                                                                                                                                                                                                                                                                                         3.33984 (07081524)
3.03069 (07081524)
                                                                                                                                                                                                                                                                                                                                                                                                                 10/26/10
18:10:14
PAGE 15
                                                                                                                                                                                                                              FLAT
NODRYDPLT NOWETDPLT
                                                                                                                                      1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                 INCLUDING SOURCE(S):
                                                                                                                                                                                                             VOL1 , AREA1
                                                                                                                     *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                                                                 ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                                                                                           X-COORD (METERS)
    Y-COORD
                                                           X-COORD (METERS)
372900.88 373039.57 373178.26 373316.95 373455.64
                                                 2.04664 (07072624) 2.31981 (07083124) 2.34366 (07083124) 2.83774 (07083124) 2.97833 (07083124) 3.45225 (07083124) 5.55686 (07083124) 4.08919 (07083124) 5.55686 (07083124) 4.57282 (07083124) 8.39080 (07083124) 10.7083 (070701524) 23.83718 (07083124) 10.7083 (070701524) 23.83718 (07083124) 15.75194 (07092824) 59.21185 (07031824) 26.77535 (06060724) 24.80972 (05120324) 26.77535 (06060724) 24.80972 (05120324) 6.31340 (05061324) 10.41841 (07081524) 5.36353 (05120324) 6.83814 (07081524) 3.82995 (0503124) 6.83814 (07081524) 3.07345 (05091724) 5.75996 (07081524) 2.33378 (05091724) 4.93475 (07081524) 2.33378 (05091724) 4.93475 (07081524) 2.10596 (07120824)
                                                                                                                                                                                                                  1.91504 (0708124) 1.68838 (05052624) 2.33325 (07071524) 2.79829 (05052624) 3.36911 (07071524) 1.76148 (07071524) 2.93534 (05052624) 3.36911 (07071524) 1.76148 (07071524) 2.93534 (05052624) 3.36912 (07071524) 1.76148 (07071524) 5.41735 (07071524) 3.06092 (07031824) 3.24330 (07092824) 5.41735 (07071524) 4.87072 (07092824) 6.18720 (06101024) 7.99692 (07092824) 4.87072 (07092824) 6.18720 (06101024) 18.80954 (06101024) 9.26824 (06052024) 6.76949 (05090224) 16.30757 (05081824) 8.75373 (05081824) 6.13185 (06050424) 12.59445 (07051524) 8.75373 (05081824) 6.13185 (06050424) 12.59445 (07051524) 6.30414 (07110724) 4.47964 (07110724) 5.84756 (05082324) 4.9958 (05090224) 3.86936 (07092724) 3.65226 (05082324) 3.36400 (06051424) 3.86936 (07092724) 3.65226 (05082324) 2.89533 (070021324) 3.06144 (0709072744) 2.18935 (07092724) 2.59107 (05081524) 1.69397 (07090824) 2.18936 (070907274) 2.59107 (05081524) 1.69397 (07021324) 1.88105 (06071724) 1.58245 (05120324) 1.69397 (07021324) 3.38105 (06071724) 1.58245 (05120324) 1.62977 (05081524) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (070908274) 2.31241 (07090
 3752632.1
3752502.9
                                                                                                                                                                                                                                                                                                                3.50316 (07071524)
3.05092 (07031824)
4.87072 (07092824)
10.24819 (06101024)
9.26824 (06052024)
8.75373 (05081824)
8.08326 (07051524)
6.30414 (07110724)
4.19545 (06051424)
3.05014 (07091524)
1.69397 (07091324)
1.69397 (07031324)
1.69397 (05081524)
1.47573 (05081524)
1.47573 (05081524)
  3752373.8
 3751857.0
 3751727.8
  3751598.6
 3751469.4
3751340.2
 3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
1.88105 (0607/1724)
2.31241 (07090824)
1.12452 (07081224)
1.12642 (05081524)
1.11542 (05081524)
0.98054 (06072824)
                                                                                                                                                                                                                     1.58245 (05120324)
1.60483 (05091724)
1.63157 (05091724)
1.32121 (05091724)
0.95708 (07120824)
                                                                                                                                              2.10596 (07120824)
                                                                                                                                                                           (07120824)
                                                                                                                                                                                                                                                                                                                     1.47573 (05081524)
1.25043 (06072824)
0.99004 (07051824)
0.89906 (05091724)
                                                                                                                                              1.68114 (07120824)
1.60749 (07120824)
1.32341 (07120824)
1.06068 (07120824)
                                                                                                                                                                                                                                                                                                                                                                                                                        10/26/10
                                                                                                                                                                                                                                                                                                                                                                                                                          18:10:14
                                                                                                                                                                                                                                                                                                                                                                                                                          PAGE 16
**MODELOPTS: NonDFAULT CONC
                                                                                                                                                                                                                               NODRYDPLT NOWETDPLT
                                                                                                     *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , AREA1 ,
                                                                                                                       *** NETWORK ID: HCART1 ; NETWORK TYPE: GRIDCART ***
```

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** CONC OF PM2.5 IN MICROGRAMS/M**3
                                  X-COORD (METERS)
373594.33 373733.02 373871.71
     Y-COORD
                                                                                                                                                                                                             374010.40 374149.09

        1.58164 (07071524)
        1.16208 (06051624)
        1.56855 (07092824)
        1.19184 (06081224)
        1.37602 (06101024)

        1.31204 (07031824)
        1.88192 (07092824)
        1.41993 (06081224)
        1.72516 (06101024)
        2.02805 (06101024)

        2.23298 (07092824)
        1.73076 (06081224)
        2.22255 (06101024)
        2.50039 (06101024)
        2.27546 (06101024)

        2.232937 (07092824)
        2.96353 (06101024)
        3.17539 (06101024)
        2.88691 (06101024)
        2.53879 (06101024)

        4.13922 (06101024)
        4.21561 (06101024)
        3.66687 (06101024)
        2.63144 (06101024)
        1.92871 (06052024)

        5.84848 (06101024)
        4.21708 (06101024)
        2.80708 (06052024)
        2.33379 (05090224)
        2.31719 (05090224)

        4.58307 (06052024)
        3.37514 (05090224)
        3.31655 (05090224)
        2.33379 (05090224)
        2.58425 (05081824)

        5.68901 (05081824)
        4.23245 (05081824)
        2.91214 (05081824)
        2.34420 (06050424)
        2.10542 (06050424)

        4.07197 (07051524)
        3.11823 (07051524)
        2.47535 (07051524)
        1.95767 (06050424)
        1.53873 (06050424)

        3.12316 (06060724)
        2.56492 (06060724)
        2.10592 (06060724)
        1.85558 (070110724)
        1.62781 (07051524)
        1.62781 (07051524)

    3752632.1
   3752502.9
   3752373.8
    3752244 6
   3752244.6
3752115.4
3751986.2
3751857.0
3751727.8
    3751598.6
    3751469.4
3751340.2
   3751340.2
3751211.0
3751081.9
3750952.7
3750823.5
  3750694.3 | 1.44506 (07092724) | 1.45041 (07013024) | 3750694.3 | 1.44506 (07092724) | 1.12929 (05062324) | 3750565.1 | 2.03806 (07090824) | 1.40079 (07092724) | 3750335.9 | 1.75698 (07090824) | 1.34600 (07090824) | 3750306.7 | 0.80722 (07081224) | 1.96075 (07090824) | 3750177.5 | 0.85514 (06072724) | 1.26533 (07090824) | *** AERMOD - VERSION 09292 *** Site 22 - PM2.5 ***
                                                                                                                                                        1.16752 (07013024)
0.98376 (05062324)
1.21582 (07092724)
0.91444 (06071724)
1.63961 (07090824)
                                                                                                                                                                                                                                                                        0.98927 (06051424)

1.15444 (06051424)

1.08417 (05082324)

0.80414 (07013024)

0.76300 (06081624)

0.77126 (07092724)

10/26/10
                                                                                                                                                                                                                  1.28097 (05082324)
                                                                                                                                                                                                                1.28097 (05082324)

0.96025 (07013024)

0.84745 (05062324)

0.98554 (07092724)

0.78230 (07092724)

***
                                                                                                                                                                                                                                                                                   18:10:14
                                                                                                                                                                                                                                                                                   PAGE 17
  **MODELOPTs: NonDFAULT CONC
                                                                                                                                                      FLAT
                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                      *** THE \, 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \, VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): \, VOL1 \, , AREA1 \, ,
                                                                                 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
                                                                                         ** CONC OF PM2.5 IN MICROGRAMS/M**3
    .-COORD |
(METERS) |
                             374287.78
                                        1.67671 (06101024)
1.90671 (05082724)
2.15140 (06101024)
1.79323 (06042824)
1.69076 (07032124)
   3752632.1
3752502.9
3752373.8
3752244.6
   3752115.4
                                          2.01579 (05081824)
2.06447 (05081824)
  3752115.4
3751986.2
3751857.0
3751727.8
3751598.6
3751469.4
3751340.2
                                         2.06447 (05081824)

1.85398 (06050424)

1.251807 (07051524)

1.42589 (07051524)

1.23187 (07090724)

1.31394 (07110724)
    3751211.0
3751081.9
                                          1.12835 (07110724)
1.03207 (05070224)
   3750952.7
    3750823.5
3750694.3
                                         0.95389 (05070224)
0.95389 (05070224)
0.99291 (06051424)
0.92789 (06051424)
  10/26/10
                                                                                                                                                      NODRYDPLT NOWETDPLT
                                                                                            1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
                                                                                                                                                       , AREA1
                                                                              INCLUDING SOURCE(S):
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                             CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

9.53174 (06090524) 372914.88 3751945.62 15.56641 (07083124)
10.72118 (07071524) 373154.06 3752021.46 6.75028 (07092824)
5.40893 (07092824) 372652.37 3751356.42 15.10035 (05122924)
22.62170 (07081524) 372909.05 3751359.34 11.76779 (05120324)
26.99192 (05120324)
*** Site 22 - PM2.5
                                                                                         ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                    ONC (YYMMDDHH)
            372911.97
                                              3751496.43
  *** AERMOD - VERSTON 09292 ***
                                                                                                                                                                                                                                                                                    10/26/10
  **MODELOPTS: NonDFAULT CONC
                                                                                                                                                     NODRYDPLT NOWETDPLT
                                                                                 *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***
                                                                                  ** CONC OF PM2.5 IN MICROGRAMS/M**3
                                                                                                                                    RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
GROUP ID
                                                                    AVERAGE CONC
 75.28213 AT ( 372900.88, 3751598.61, 43.13225 AT ( 372762.19, 3751598.61, 21.36524 AT ( 372903.88, 3751727.80, 8.26645 AT ( 372903.95, 3751727.80, 6.83071 AT ( 372762.19, 3751727.80, 6.82719 AT ( 372762.19, 3751469.42, 6.35521 AT ( 372762.19, 3751469.42, 6.14728 AT ( 37262.15, 3751598.61, 3.96941 AT ( 373039.57, 3751598.61, 3.61815 AT ( 373039.57, 3751856.99,
                    1ST HIGHEST VALUE IS
                     2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
                                                                                                                                                                                  10.00,
10.00,
10.00,
                                                                                                                                                                                                         10.00,
10.00,
10.00,
                                                                                                                                                                                                                                 0.00)
0.00)
0.00)
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GC
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GC
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UCART1
UCART1
                     5TH HIGHEST VALUE IS
                                                                                                                                                                                   10.00.
                                                                                                                                                                                                          10.00.
                                                                                                                                                                                                                                 0.00)
                                                                                                                                                                                                                                                          UCART1
                     6TH HIGHEST VALUE IS
7TH HIGHEST VALUE IS
                                                                                                                                                                                   10.00.
                                                                                                                                                                                                         10.00.
                                                                                                                                                                                                                                 0.00)
                                                                                                                                                                                                                                                GC
GC
                                                                                                                                                                                                                                                          IICART1
                                                                                                                                                                                   10.00,
                                                                                                                                                                                                          10.00,
                                                                                                                                                                                                                                 0.00)
                                                                                                                                                                                                                                                          UCARTI
                  8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS
                                                                                                                                                                                                                                                          UCART1
UCART1
UCART1
  *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
```

Page 6 of 7

DC = DISCCART
DP = DISCPOLR

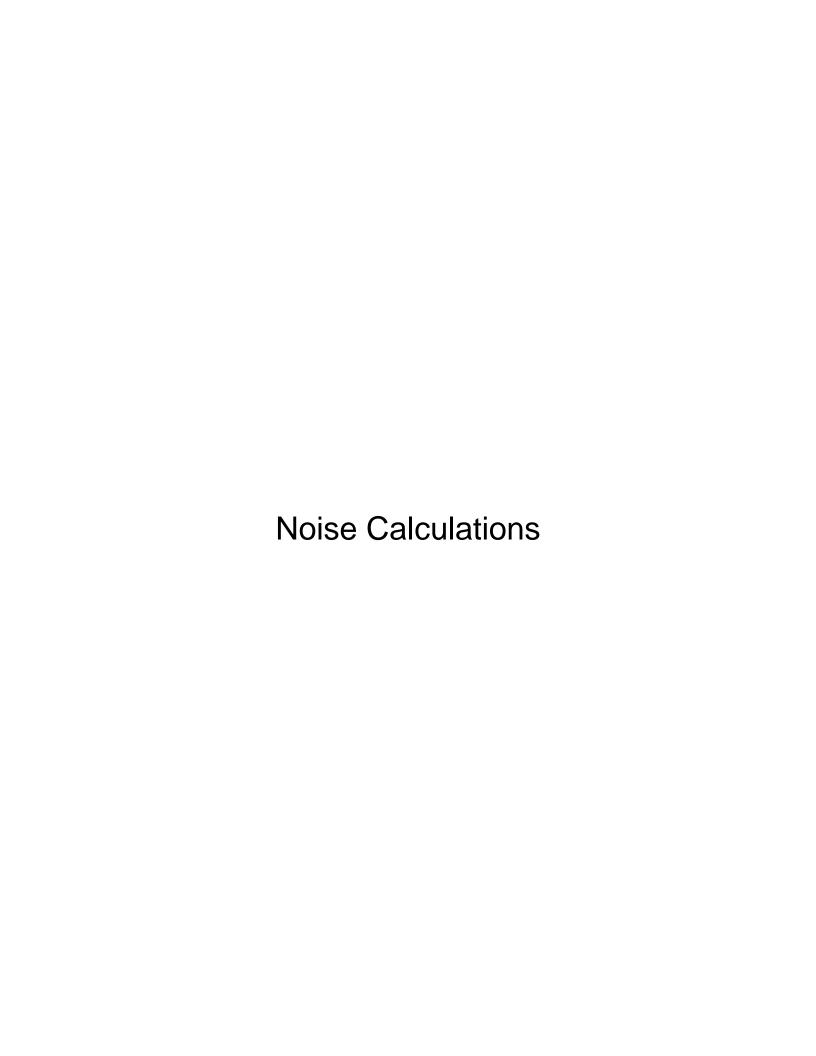
*** AERMOD - VERSION 09292 *** *** Site 22 - PM2.5

*** 18:10:14 PAGE 20 **MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT *** THE SUMMARY OF HIGHEST 24-HR RESULTS *** ** CONC OF PM2.5 IN MICROGRAMS/M**3 GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID ALL HIGH 1ST HIGH VALUE IS 205.95259 ON 06051424: AT (372900.88, 3751598.61, 10.00, 10.00, 0.00) GC UCARTI *** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

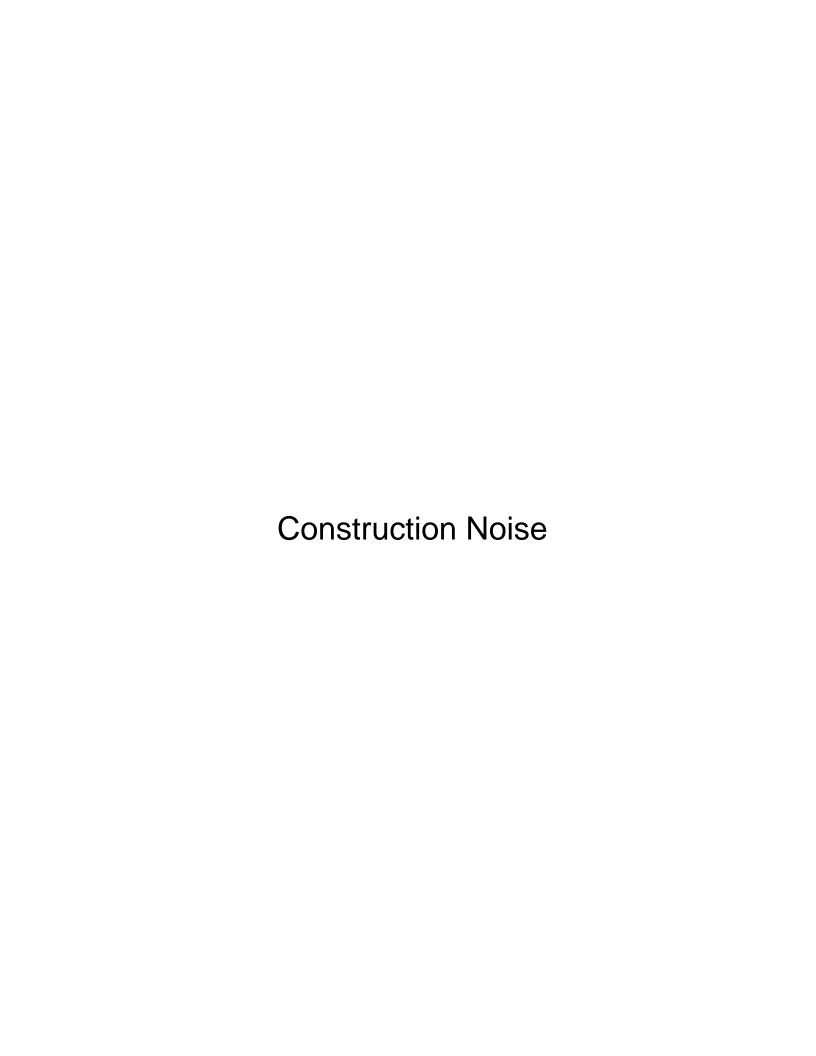
*** AERMOD - VERSION 09292 *** *** Site 22 - PM2.5 10/26/10 18:10:14 PAGE 21 FLAT NODRYDPLT NOWETDPLT **MODELOPTs: NonDFAULT CONC *** Message Summary : AERMOD Model Execution *** ----- Summary of Total Messages -----A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 152 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 15 Calm Hours Identified
A Total of 137 Missing Hours Identified (0.52 Percent) ******* FATAL ERROR MESSAGES *******

*** NONE *** ****** WARNING MESSAGES *******

** NONE *** *** AERMOD Finishes Successfully ***



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UNMITIGATED CONSTRUCTION NOISE

Reference Noise Distance	50					
Reference Noise Level	89			T.		
Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Division 22						
Residential - South	150	5	74.5	58.7	74.6	15.9
Residential - North	800	15	49.9	66.0	66.1	0.1
Residential - Southwest	1,000	10	53.0	66.0	66.2	0.2
Site #14						
Residential - North	280	5	69.0	65.2	70.5	5.3
Residential - East	350	0	72.1	68.8	73.8	5.0
Residential - West	375	0	71.5	57.9	71.7	13.8
Bright Star	600	5	62.4	55.0	63.1	8.1
Animo School	750	0	65.5	68.8	70.5	1.7
Residential - South	850	10	54.4	57.9	59.5	1.6
Site #15						
Animo School	250	0	75.0	68.8	76.0	7.2
Residential - Southeast	450	0	69.9	68.8	72.4	3.6
Residential - West	750	5	60.5	65.2	66.5	1.3
Residential - Northwest	1,000	5	58.0	64.8	65.6	0.8
Site #15						
Lawndale High School	1,000	10	53.0	66.1	66.3	0.2
Residential - East	1,200	10	51.4	66.0	66.1	0.1
Residential - South	1,400	10	50.1	66.3	66.4	0.1

MITIGATED CONSTRUCTION NOISE

Reference Noise Distance	50					
Reference Noise Level	89		Maximum			
	Distance	Attenuation	Construction Noise Level	Existing Ambient	New Ambient	
Sensitive Receptor Division 22	(feet)	Factors	(dBA)	(dBA, Leq)	(dBA, Leq)	Increase
Residential - South	150	5	74.5	58.7	74.6	15.9
Residential - North	800		49.9	66.0	66.1	0.1
Residential - Southwest	1,000	10	53.0	66.0	66.2	0.2
Site #14						
Residential - North	280	5	69.0	65.2	70.5	5.3
Residential - East	350	0	72.1	68.8	73.8	5.0
Residential - West	375	0	71.5	57.9	71.7	13.8
Bright Star	600	5	62.4	55.0	63.1	8.1
Animo School	750	0	65.5	68.8	70.5	1.7
Residential - South	850	10	54.4	57.9	59.5	1.6
Site #15						
Animo School	250	0	75.0	68.8	76.0	7.2
Residential - Southeast	450	0	69.9	68.8	72.4	3.6
Residential - West	750	5	60.5	65.2	66.5	1.3
Residential - Northwest	1,000	5	58.0	64.8	65.6	0.8
Site #15						
Lawndale High School	1,000	10	53.0	66.1	66.3	0.2
Residential - East	1,200	10	51.4	66.0	66.1	0.1
Residential - South	1,400	10	50.1	66.3	66.4	0.1



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version: 7/3/2007

Project	Division 22 Expansion

Receiver Parameters	
Receiver:	250
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	61 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	250
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	Yes

Project Results Summary

r roject Results Guillilary		
Existing Ldn:	61 dBA	
Total Project Ldn:	40 dBA	
Total Noise Exposure:	61 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

Distance to impact Contours	
Dist to Mod. Impact Contour	
(Source 1):	45 ft
Dist to Sev. Impact Contour	
(Source 1):	27 ft

Source 1 Results

Leq(day): 41.7 dBA Leq(night): 0.0 dBA Ldn: 39.6 dBA

version: 7/3/2007

Project	Division 22 Expansion
rioject.	DIVISION ZZ EXPANSION

Receiver Parameters	
Receiver:	1500
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	61 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1500
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	Yes
1		

Project Results Summary

1 Toject Nesults Guilliary		
Existing Ldn:	61 dBA	
Total Project Ldn:	16 dBA	
Total Noise Exposure:	61 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

istance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	45 ft	
Dist to Sev. Impact Contour		
(Source 1):	27 ft	

Source 1 Results

Leq(day): 17.7 dBA Leq(night): 0.0 dBA Ldn: 16.1 dBA

version: 7/3/2007

Project: Division 22 Evennelon
Project: Division 22 Expansion

Receiver Parameters	
Receiver:	1000
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	61 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1000
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	Yes

Project Results Summary

1 Toject Nesults Sullillary		
Existing Ldn:	61 dBA	
Total Project Ldn:	20 dBA	
Total Noise Exposure:	61 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

istance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	45 ft	
Dist to Sev. Impact Contour		
(Source 1):	27 ft	

Source 1 Results

Leq(day): 22.1 dBA Leq(night): 0.0 dBA Ldn: 20.3 dBA

version: 7/3/2007

Project: Site #14		
	Project: Site #14	

Receiver Parameters	
Receiver:	550
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	70 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Paramete	ers	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	550
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No
	· ·	

Project Results Summary

r roject results outlinary		
Existing Ldn:	70 dBA	
Total Project Ldn:	36 dBA	
Total Noise Exposure:	70 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

Distance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	41 ft	
Dist to Sev. Impact Contour		
(Source 1):	25 ft	

Source 1 Results

Leq(day): 38.1 dBA Leq(night): 0.0 dBA Ldn: 36.1 dBA

version: 7/3/2007

Project: Site #14	
Project: Site #14	

Receiver Parameters	
Receiver:	900
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	65 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	900
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No

Project Results Summary

1 Tojeot Results Guilliary		
Existing Ldn:	65 dBA	
Total Project Ldn:	31 dBA	
Total Noise Exposure:	65 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

istance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	56 ft	
Dist to Sev. Impact Contour		
(Source 1):	34 ft	

Source 1 Results

Leq(day): 32.8 dBA Leq(night): 0.0 dBA Ldn: 30.8 dBA

version: 7/3/2007

Project: Site #14	
Project: Site #14	

Receiver Parameters	
Receiver:	1600
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	60 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1600
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No

Project Results Summary

1 Toject Results Guilliary		
Existing Ldn:	60 dBA	
Total Project Ldn:	25 dBA	
Total Noise Exposure:	60 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

pistance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	75 ft	
Dist to Sev. Impact Contour (Source 1):		
(Source 1).	44 II	

Source 1 Results

Leq(day): 26.5 dBA Leq(night): 0.0 dBA Ldn: 24.6 dBA

version: 7/3/2007

Project:	Site #14

Receiver Parameters	
Receiver:	1800
Land Use Category:	3. Institutional
Existing Noise (Measured or Generic Value):	69 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Parame	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Noisiest hr of	Number of Trains/hr	0.2
Activity During	0	40
Sensitive hrs		
Distance	Distance from Source to Receiver (ft)	1800
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No

Project Results Summary

1 Toject Results Guilliary		
Existing Leqh:	69 dBA	
Total Project Leqh:	23 dBA	
Total Noise Exposure:	69 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

pistance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	28 ft	
Dist to Sev. Impact Contour		
(Source 1):	18 ft	

Source 1 Results

Leqh: 23.5 dBA

version: 7/3/2007

Project: Site #14	
Project: Site #14	

Receiver Parameters	
Receiver:	2000
Land Use Category:	3. Institutional
Existing Noise (Measured or Generic Value):	55 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Parame	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Noisiest hr of	Number of Trains/hr	0.2
Activity During	0	40
Sensitive hrs		
Distance	Distance from Source to Receiver (ft)	2000
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No

Project Results Summary

r roject results outlinary		
Existing Leqh:	55 dBA	
Total Project Leqh:	22 dBA	
Total Noise Exposure:	55 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

istance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	61 ft	
Dist to Sev. Impact Contour		
(Source 1):	35 ft	

Source 1 Results

Leqh: 22.3 dBA

version: 7/3/2007

Project: Site #	#15

Receiver Parameters	
Receiver:	1000
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	60 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1000
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	No

Project Results Summary

1 Toject Nesults Sullillary		
Existing Ldn:	60 dBA	
Total Project Ldn:	25 dBA	
Total Noise Exposure:	60 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

Distance to impact Contours	
Dist to Mod. Impact Contour	
(Source 1):	75 ft
Dist to Sev. Impact Contour	
(Source 1):	44 ft

Source 1 Results

Leq(day): 27.1 dBA Leq(night): 0.0 dBA Ldn: 25.1 dBA

version: 7/3/2007

Project: Cita #45	
Project: Site #15	

Receiver Parameters	
Receiver:	1100
Land Use Category:	3. Institutional
Existing Noise (Measured or Generic Value):	69 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Parame	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Noisiest hr of	Number of Trains/hr	0.2
Activity During	0	40
Sensitive hrs		
Distance	Distance from Source to Receiver (ft)	1100
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No

Project Results Summary

Existing Leqh:	69 dBA	
Total Project Leqh:	29 dBA	
Total Noise Exposure:	69 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

Distance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	30 ft	
Dist to Sev. Impact Contour		
(Source 1):	19 ft	

Source 1 Results

Leqh: 28.8 dBA

version: 7/3/2007

Project:	Site #15

Receiver Parameters	
Receiver:	1600
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	65 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1600
	Number of Intervening Rows of Buildings	0
Adjustments	Noise Barrier?	No

Project Results Summary

1 Tojeot results cultillary		
Existing Ldn:	65 dBA	
Total Project Ldn:	25 dBA	
Total Noise Exposure:	65 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

istance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	56 ft	
Dist to Sev. Impact Contour		
(Source 1):	34 ft	

Source 1 Results

Leq(day): 26.5 dBA Leq(night): 0.0 dBA Ldn: 24.6 dBA

version: 7/3/2007

Project: Cita #45	
Project: Site #15	

Receiver Parameters	
Receiver:	1,700
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	60 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	neters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1,700
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	No

Project Results Summary

. reject recente cummary		
Existing Ldn:	60 dBA	
Total Project Ldn:	20 dBA	
Total Noise Exposure:	60 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

Distance to impact Contours		
Dist to Mod. Impact Contour		
(Source 1):	75 ft	
Dist to Sev. Impact Contour		
(Source 1):	44 ft	

Source 1 Results

Leq(day): 21.4 dBA Leq(night): 0.0 dBA Ldn: 19.5 dBA

version: 7/3/2007

Ш	Project: Site #17
Ш	
Ш	one #11

Receiver Parameters		
Receiver:	1300	
Land Use Category:	3. Institutional	
Existing Noise (Measured or Generic Value):	66 dBA	

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Parame	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Noisiest hr of	Number of Trains/hr	0.2
Activity During	0	40
Sensitive hrs		
Distance	Distance from Source to Receiver (ft)	1300
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	Yes

Project Results Summary

Existing Leqh:	66 dBA	
Total Project Leqh:	18 dBA	
Total Noise Exposure:	66 dBA	
Increase:	0 dB	
Impact?:	None	

Distance to Impact Contours

Distance to impact contours		
Dist to Mod. Impact Contour		
(Source 1):	22 ft	
Dist to Sev. Impact Contour		
(Source 1):	13 ft	

Source 1 Results

Leqh: 17.5 dBA

version: 7/3/2007

Ш	Project: Site #17
Ш	
Ш	one #11

Receiver Parameters	
Receiver:	1600
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	61 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Parameter	rs	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	1600
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	Yes

Project Results Summary

1 Toject Nesults Sullillary	
Existing Ldn:	61 dBA
Total Project Ldn:	15 dBA
Total Noise Exposure:	61 dBA
Increase:	0 dB
Impact?:	None

Distance to Impact Contours

distance to impact contours	
Dist to Mod. Impact Contour	
(Source 1):	45 ft
Dist to Sev. Impact Contour	
(Source 1):	27 ft

Source 1 Results

Leq(day): 17.0 dBA Leq(night): 0.0 dBA Ldn: 15.5 dBA

version: 7/3/2007

Project: Cir. #47	
one #17	

Receiver Parameters	
Receiver:	2100
Land Use Category:	2. Residential
Existing Noise (Measured or Generic Value):	61 dBA

Noise Source Parameters		
	Number of Noise Sources:	1

Noise Source Param	eters	Source 1
	Source Type:	Stationary Source
	Specific Source:	Rail Yard & Shops
Daytime hrs	Avg. Number of Trains/hr	0.3
	0	40
Nighttime hrs	Avg. Number of Trains/hr	0
	0	40
Distance	Distance from Source to Receiver (ft)	2100
	Number of Intervening Rows of Buildings	1
Adjustments	Noise Barrier?	Yes

Project Results Summary

1 Toject Results Cullinary	
Existing Ldn:	61 dBA
Total Project Ldn:	13 dBA
Total Noise Exposure:	61 dBA
Increase:	0 dB
Impact?:	None

Distance to Impact Contours

Distance to impact contours	
Dist to Mod. Impact Contour	
(Source 1):	45 ft
Dist to Sev. Impact Contour	
(Source 1):	27 ft

Source 1 Results

Leq(day): 14.1 dBA Leq(night): 0.0 dBA Ldn: 13.0 dBA

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT CRENSHAW/LAX LIGHT RAIL TRANSIT PROPOSED MAINTENANCE FACILITY SITE 14: ARBOR VITAE/BELLANCA CITY OF LOS ANGELES, CALIFORNIA

Prepared For:

PB AMERICAS, INC.

444 South Flower Street, Suite 3700 Los Angeles, California 90071

Project No. 602019-003

July 13, 2011





July 13, 2011

Project No. 602019-003

To: PB Americas, Inc.

444 South Flower Street, Suite 3700 Los Angeles, California 90071

Attention: Mr. Dennis Henderson

Subject: Phase I Environmental Site Assessment Report, Crenshaw/LAX Light Rail

Transit Proposed Maintenance Facility, Site 14: Arbor Vitae/Bellanca, City of Los

Angeles, California

Leighton Consulting, Inc. (Leighton Consulting) is pleased to present this Phase I Environmental Site Assessment Report for the Crenshaw/LAX Light Rail Transit Maintenance Facility, Site 14, located at Arbor Vitae Street and Bellanca Avenue in the City of Los Angeles, California.

Leighton Consulting has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. Leighton Consulting has developed and performed the all appropriate inquiries in conformance with the standards and practices prescribed in ASTM International E1527-05.

If you have any questions regarding this report, please do not hesitate to contact me. We appreciate the opportunity to be of service.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

Meredill Church

Meredith Church, PG Project Geologist

Senior Reviewer: Richard Orr, PG

Distribution: (1 CD, ProjectSolve) Addressee

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EXECUTIVE SUMMARY

Leighton Consulting, Inc. (Leighton Consulting) performed a Phase I Environmental Site Assessment (ESA) of the Crenshaw/Los Angeles International Airport (LAX) Light Rail Transit (LRT) Proposed Maintenance Facility, Site 14, located at Arbor Vitae Street and Bellanca Avenue in the City of Los Angeles, California (Figure 1, *Site Location Map*). The purpose of this Phase I ESA was to attempt to identify, to the extent feasible pursuant to the processes prescribed in ASTM International (ASTM) E1527-05, recognized environmental conditions (RECs) in connection with the Site. Exceptions to, or deletions from, this practice are described in Section 1.5 of the report.

Site 14 originally consisted of 12 pa rcel areas, identified as Parcels 1 t hrough 12, a nd collectively referred to as the "Site" (Figure 2, *Site Plan*). The Site boundaries have been revised to exclude Parcels 1 through 7. T hroughout this report, Parcels 1 through 12 are discussed; however, the conclusions and recommendations are based on P arcels 1 through 7 as being located offsite to the west, and Parcels 8 through 12 utilized as the proposed Maintenance Facility.

Parcels 1 through 12 are approximately 30.5 acres in size and are bounded by Arbor Vitae Street to the north, Airport Boulevard to the west, and Bellanca Avenue to the east. The Site is occupied primarily by cosmetics manufacturing and commercial businesses including a Super 8 Motel, Aliki's Greek Tavern, Neutrogena Cosmetics, Dollar Car Rental, Avis Car Rental administrative offices, Barthco International, and Gourmet Trading Company. In addition, there are three parcels that have been used for residential purposes, two of which have had the buildings removed and are currently vacant.

The Site appeared to be vacant and/or used for agricultural purposes prior to primary development by at least 1956. The Site has continued to be occupied by light manufacturing, commercial, and residential development to the present. A number of the properties have had, or have fuel underground storage tanks (USTs) onsite, and a summary of the status of USTs is included in Table 9, *UST Summary*. A brief summary of the historical land use of each parcel is included in Table 10, *Findings, Conclusions, and Recommendations*.

Parcels 8 through 12 were identified to have onsite RECs. Below is a brief summary of the RECs, for additional information, see Section 7.1 and Table 10.



- 1. Parcel 8, Avis Rent A Car, 5740 Arbor Vitae Street. Formerly occupied by several light industrial businesses, including an electronics business. Manufacturing may have occurred onsite.
- 2. Parcel 9, Dollar Rent A Car, 5630 Arbor Vitae Street. Formerly occupied by an avionics manufacturing and computer manufacturing company. Site uses currently include fuel dispensing, car washing, and auto repair.
- 3. Parcel 10, Gourmet Logistics Company, 9432 Bellanca Avenue. A UST is currently permitted onsite.
- 4. Parcel 11, Dollar Rent A Car, 9310 and 9340 Bellanca Avenue. Ongoing leaking underground storage tank (LUST) case of diesel and gasoline to groundwater, and remediation is ongoing. Current USTs may exist onsite.
- 5. Parcel 12, Gourmet Logistics Company, 9432 Bellanca Avenue. Formerly occupied by a dry cleaning facility. USTs were formerly reported onsite; however, closure reports were not available.

In addition, the following offsite locations that were identified to have releases that may have potentially migrated onto the Site. The primary affected media of concern is groundwater and soil vapor; although there is the potential for adjacent properties to have potentially affected the onsite soils as well. For additional information, see Table 4, $EDR^{®}$ Corridor Report, Database Review – Offsite Parcels.

- 1. Parcel 1, Surprise Rent A Car, 9204 Airport Boulevard, located approximately 0.1 miles west of Parcel 8. Former gas stations. One UST may remain onsite. There is reportedly an open LUST case and possible groundwater contamination.
- 2. Parcel 7, Neutrogena Corporation, 5800 Arbor Vitae Street, located adjacent to the west of Parcel 8. Cosmetics manufacturing. Formerly occupied by Space Technologies Laboratories. Residual diesel contamination from a UST removal and active manufacturing.
- 3. 9225 Aviation Boulevard, Los Angeles, Honeywell International Corp., located adjacent to the east across the railroad right-of-way from Parcels 11 and 12. Aerospace manufacturing facility. Release of high concentrations of VOCs to groundwater. The groundwater gradient has been reported to be towards the west.
- 4. 5755 West 96th Street, Los Angeles, Neutrogena Corporation, located adjacent to the south of Parcel 7. This facility has several USTs and is a large quantity generator of hazardous materials, including metals and solvents. There was not a documented release reported; however, there is the potential for these materials to exist on, or directly adjacent to Parcel 7.



- 5. 1237 West Arbor Vitae Street, and 9007 through 9121 Aviation Boulevard, Inglewood, Princeland Properties/Aviation Inglewood LLC/Collins Trust Property, located approximately 0.02 miles to the north-northeast of Parcel 11. Release of VOCs to groundwater.
- 6. 9131 Aviation Boulevard, Inglewood, Harry's Airport Garage, located approximately 0.06 miles to the north-northeast of Parcel 11. Release of fuel related compounds to the groundwater.
- 7. 425 Isis Avenue, Inglewood, Rho-Chem Corp, located approximately 0.3 miles northeast. Extensive release of VOCs to groundwater and the extent of the plume is not well-defined. Groundwater flow direction has been reported to be variable in the general vicinity.
- 8. 8600 Aviation Boulevard, Los Angeles, Tosco 76 Station, located approximately 0.4 miles to the north. R elease of high concentrations of fuel related compounds to the groundwater. Groundwater flow was reported to the southwest and the plume was not well defined.

To address the onsite and offsite RECs listed above, Leighton Consulting makes the following recommendations:

- <u>Site Specific Phase II ESA</u> Phase II ESAs, including soil, soil vapor sampling, and geophysical surveys for areas where the status of USTs is unknown, are recommended at the parcels listed above and in Table 10 that were identified to have onsite RECs. Groundwater is generally located approximately 90 to 150 feet bgs and would not be anticipated to be encountered during construction activities; however, based on the results of the soil sampling, it may be necessary to sample groundwater as well. There is the potential for impacts to groundwater from both onsite and offsite sources.
- <u>UST Removal</u> Existing USTs should be removed from the Site according to the Los Angeles Fire Department (LAFD) regulations, prior to Site redevelopment. In addition, subsurface clarifiers or hoists should be removed appropriately and confirmation soil sampling should be conducted beneath the removed features.
- <u>Parcel 11 G roundwater Remediation</u>: There is an open LUST case on Parcel 11 with groundwater remediation currently being conducted. Leighton Consulting recommends that the groundwater remediation continue under the guidance of the Regional Water Quality Control Board (RWQCB) until closure is granted.



In addition, Leighton makes the following general recommendations:

- <u>Hazardous Building Materials Surveys</u> Surveys for asbestos containing building materials, lead-based paint, and miscellaneous toxic material surveys should be conducted on buildings that will be demolished in association with Project construction, particularly in buildings constructed before the mid-1980s.
- <u>Hazardous Material and Debris Removal</u> Hazardous materials and waste were observed at several business locations that appeared to be stored appropriately. Tenants or owners should remove and/or dispose of these materials appropriately when their lease is terminated or their property is acquired. Hazardous materials, drums, and debris left by tenants/owners should be disposed of in accordance with regulatory guidelines prior to construction.
- Soil Mitigation Plan (SMP) A SMP should be prepared after Project construction plans are available that describe the engineering and geotechnical earthwork requirements, including the lateral and vertical extent of soil removals/recompaction. The soil mitigation plan should establish soil screening, sampling, stockpiling, reuse, disposal, and import soil screening criteria.
- Health and Safety Plan (HSP) A site-specific HSP should be developed for persons with potential exposure to the constituents of concern identified in the recommended Phase II ESA. Perched groundwater has been reported as shallow as 45 feet bgs within the vicinity of the Site. Due to prevalent groundwater contamination in the Project area, a construction Health and Safety Plan (HSP) should address proper handling procedures if groundwater is expected to be encountered. In addition, if dewatering will be required, groundwater sampling and analysis should be conducted prior to dewatering and/or disposal activities.
- <u>Construction Observations</u> In general, observations should be made during future
 development activities for features of concern or areas of possible contamination such as, but
 not limited to, the presence of underground facilities, buried debris, waste drums, tanks, soil
 staining or odorous soils. Further investigation and analysis may be necessary, should such
 materials be encountered.
- Additional Due Diligence Activities For properties purchased for this Project, Leighton Consulting recommends that a CERCLA compliant Phase I ESA that is conducted within 6 months of property purchase be conducted in order to be eligible for CERCLA liability protections, and that data gaps of this report be completed at that time, including interior site inspections, owner/tenant interviews and a review for environmental liens.



1.0 INTRODUCTION

1.1 Authorization

Leighton Consulting performed a Phase I ESA of the Crenshaw/Los Angeles International Airport (LAX) Light Rail Transit (LRT) Proposed Maintenance Facility, Site 14, located at Arbor Vitae Street and Bellanca Avenue in the City of Los Angeles, California, in accordance with authorization received from Parsons Brinckerhoff (PB).

1.2 <u>Purpose</u>

The purpose of the Phase I ESA was to identify, to the extent feasible pursuant to the processes prescribed in ASTM E1527-05, RECs in connection with the Site. RECs are defined as: the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimus are not recognized environmental conditions (ASTM E1527-05, 2005). References are included in Appendix A, References.

1.3 Scope of Work

The scope of work was performed in accordance with the Request for Proposal and Leighton Consulting's Phase I ESA ASTM compliance practices and included the following tasks:

- A reconnaissance-level visit from the public-right-of-way of the properties that
 comprise the Project (referred to collectively as Site) for evidence of release(s) of
 hazardous materials and petroleum products and to assess the potential for onsite
 releases of hazardous materials and petroleum products. Interior site inspections were
 not completed;
- Records Review (including review of previous environmental reports, selected governmental databases, and historical review);



- Interviews Due to site access issues and at the authorization of the client, interior site inspections, owner interviews, and tenant interviews were not conducted as part of this Phase I ESA.
- Preparation of a report presenting our findings.

1.4 <u>Significant Assumptions</u>

Leighton Consulting assumes that the information provided by the Client, regulatory database provider, and regulatory agencies is true and reliable.

1.5 <u>Limitations and Exceptions</u>

Site-specific activities performed by Leighton Consulting and information collected regarding these activities are summarized in Section 2.0 through 6.0. The findings of this ESA are presented in Section 7.0. Opinions, and conclusions drawn by Leighton Consulting, based on the information collected as part of the ESA, are presented in Sections 8.0 and 9.0, respectively.

This ESA was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

Due to site access issues and at the authorization of the client, interior site inspections, owner interviews, and tenant interviews were not conducted as part of this Phase I ESA. The site reconnaissance consisted of observing the property from public right-of-way areas. In addition, the scope of work for this Phase I ESA did not include environmental lien searches

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the ESA described herein. Opinions presented herein apply to Site conditions existing at the time of our study and cannot necessarily be taken to apply to Site conditions or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the amount, type, distribution, and integrity of the information collected at the time of the investigation, the methods utilized to collect and evaluate the data, and that a full and complete evaluation of environmental risks cannot be made. Although Leighton Consulting has taken steps to obtain true



copies of available information, we make no representation or warranty with respect to the accuracy or completeness of this information.

This practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the landowner liability protections including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the Site that are not addressed in this practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

1.6 <u>Special Terms and Conditions</u>

The scope of work for this Phase I ESA did not include non-scope considerations, such as, but not limited to, those listed in Section 13 of ASTM E1527-05. This scope of work did not include items such as: testing of electrical equipment for the presence of polychlorinated biphenyls (PCBs) or collection of other environmental samples, such as, water, building materials, paint, or other media; assessment of natural hazards such as naturally occurring asbestos, radon gas, methane gas, or mold; assessment of the potential presence of radionuclides, biological agents, or lead in drinking water; assessment of indoor air quality (such as vapor intrusion assessment); assessment of nonchemical hazards such as the potential for damage from earthquakes or floods, or the presence of endangered species or wildlife habitats. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the Site or of businesses operating at the Site, or a health-based risk assessment.

1.7 User Reliance

This report is for the exclusive use of the Metropolitan Transportation Authority (Metro), PB, and Terry A. Hayes Associates, LLC (TAHA). Use of this report by other parties shall be at such party's sole risk.

1.8 Important Information about Geoenvironmental Reports

PB is referred to Appendix I regarding important information provided by ASFE on geoenvironmental studies and reports.



2.0 SITE DESCRIPTION

2.1 <u>Project Description and Location</u>

Site 14 is the proposed operations and maintenance facility for the Crenshaw/LAX LRT Project and is located to the southeast and southwest of the intersection of Arbor Vitae Street and Bellanca Avenue in the City of Los Angeles, California, and in this report is referred to as "the Site" (Figure 1, Site Location Map). Parcels 1 t hrough 12 a re approximately 30.5 acres and are bounded by Arbor Vitae Street to the north, Airport Boulevard to the west, and Bellanca Avenue to the east. The Site is occupied primarily by cosmetics manufacturing and commercial businesses including a Super 8 Motel, Aliki's Greek Tavern, Neutrogena Cosmetics, Dollar Car Rental, Avis Car Rental administrative offices, Barthco International, and Gourmet Trading Company. Site 14 is located within the area of the Los Angeles World Airports' (LAWA) noise abatement program. This program involves the purchase of residential uses which are located within the runway approach zones of LAWA and experience elevated noise levels. LAWA has been in the process of purchasing residential property contained in this area and there are several areas of vacant land located on the western portion of the Site that have been acquired. There is one remaining 29-unit multi-family residential development on the Site. Figure 2 shows the present layout of the Site, which has been divided into 12 parcel areas, identified as Parcels 1 through 12. It is important to note that the Site boundaries have been revised to exclude Parcels 1 through 7. Throughout this report, Parcels 1 t hrough 12 a re discussed; however, the conclusions and recommendations are based on Parcels 1 through 7 as being located offsite to the west, and Parcels 8 through 12 utilized as the proposed Maintenance Facility.

2.2 <u>Site and Vicinity General Characteristics</u>

The Site and general vicinity consists of light industrial/manufacturing, commercial, and residential properties, as well as transportation corridors. The Site elevation ranges from approximately 95 to 100 feet above mean sea level (msl) and is generally flat-lying, with a slight topographic gradient towards the southeast.

2.3 Current Use of the Site

The Site is used for residential, commercial, and cosmetics manufacturing purposes. In addition there are vacant areas occupied by trees and vegetation. Information regarding the existing use of the Site, as provided by the client and observed during the Site



reconnaissance is noted on Table 1, *Property Information*. Photographs of the Site are included as Appendix B, *Site Reconnaissance Photographs*.

2.4 <u>Descriptions of Structures, Roads and Other Improvements on the Site</u>

Information regarding the number of structures on the property and their year built, as provided by the client and observed during the site reconnaissance, is noted on Table 2, *Building Information*.

2.5 <u>Current Uses of Adjoining Properties</u>

Adjacent properties consist of light manufacturing/industrial, commercial, and residential properties, as well as transportation corridors. Adjacent property to the north, across Arbor Vitae Street from west to east, includes Hertz Club, two industrial warehouse buildings, a parking lot, and Merle Norman Cosmestics. A djacent property to the east, across the railroad right-of-way, includes a large parking lot and auto fueling center. The adjacent property to the south, from east to west, includes Wally Park, a vacant industrial warehouse, Avis Rent A Car, several buildings associated with Neutrogena, a residential property, and vacant land fronting Airport Boulevard. The adjacent property to the west, across Airport Boulevard, is occupied by Avis Rent A Car.



3.0 USER PROVIDED INFORMATION

The User of this Phase I ESA is identified as PB and Metro. PB provided known information regarding the Site via a file transfer protocol (FTP) service for Leighton Consulting to review.

3.1 Title Records

Title records were not provided as part of this assessment.

3.2 <u>Environmental Liens or Activity and Use Limitations</u>

Evidence of environmental liens or activity and use limitations was not disclosed by PB.

3.3 <u>Specialized Knowledge</u>

Specialized knowledge was not disclosed by PB.

3.4 <u>Commonly Known or Reasonably Ascertainable Information</u>

PB provided parcel and building information, which are included in Tables 1 and 2.

3.5 Valuation Reduction for Environmental Issues

Purchase negotiations had not been initiated with the owners at the time of this report and valuation reduction assessment was not applicable.

3.6 Owner, Property Manager, and/or Occupant Information

PB provided owner and tenant information which is included in Table 1.

3.7 Reason for Performing Phase I ESA

A Phase I ESA is required for proposed public transportation projects. The purpose of the Phase I ESA is to assess the Site for RECs and to make recommendations for additional work that should be performed for potential redevelopment of the Site, or a portion thereof, for transportation usage. Identified RECs should also be taken into consideration for the health and safety of the workers present during the construction phase.



In addition, the purpose of this ESA is to provide appropriate inquiry into the previous ownership so that the Client may qualify for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) landowner liability protections as defined in CERCLA, 42 United States Code [USC] §9601(35) (B).

3.8 Other

No additional information was provided to Leighton Consulting for review.



4.0 RECORDS REVIEW

4.1 <u>Physical Setting Source(s)</u>

Leighton Consulting reviewed pertinent maps and readily available literature for information on the physiography and hydrogeology of the Site. A summary of this information is presented in the following subsections.

4.1.1 Topography

The topography ranges in elevation from approximately 100 feet above msl in the west to 95 feet above msl at the southeastern corner, and slopes gently towards the southeast (Appendix C, *Topographic Maps*).

4.1.2 Surface Water

Centinela Creek is located approximately 1.3 miles north of the Site. The Pacific Ocean is located approximately 3.9 miles west of the Site.

4.1.3 Geology and Soils

The near-surface native soils within the subject area are Holocene and Pleistocene-age non-marine alluvium comprised of varying proportions of gravel, sand, silt, and clay deposited by the Los Angeles River, Rio Hondo, San Gabriel River, and ancestral Santa Ana (Yerkes, 1965). Much of this sediment was deposited as sand, silt, and clay as the rivers meandered across the floodplain of the Los Angeles Basin. These deposits are anticipated to be on the order of several hundred feet in thickness, subsequently underlain within the Southwestern Block by a thick (several thousands of feet) sequence of Tertiary age sedimentary rock formations locally intruded by igneous rocks of middle Miocene age overlying Cretaceous age basement rocks belonging to the Catalina Schist. Underlying the near-surface Quaternary sediments within the Central Block are a sequence of Tertiary age sedimentary rocks anticipated to be on the order of 16,000 to 31,000 feet thick and are subsequently underlain by basement rocks consisting of granodiorite, gneissic metadiorite, and meta-igneous rocks.

The geologic structure of alluvial materials is anticipated to be generally massive; however, it can be interpreted based on a geologic depositional environment typical of flood plain and alluvial deposits that cross-stratification (channel trough



cross-stratification or transverse bar-tabular cross-stratification) sedimentary structure exists at depth. Possible relevance of these sedimentary features could include local impermeable zones with the potential for perched groundwater.

4.1.4 <u>Hydrogeology</u>

The Site is located within the Torrance Plain portion of the Coastal Plain of the Los Angeles Basin (CDWR, 1961). The Los Angeles Basin is a northwest-trending structural trough and alluvial lowland plain approximately 50 miles long and 20 miles wide. Mountains and hills that generally expose Late Cretaceous to Late Pleistocene sedimentary and igneous rocks bound the Basin along the north, northeast, east and southeast (Yerkes, 1965). The Basin is part of the Peninsular Ranges geomorphic province of California that is characterized by sub-parallel blocks sliced longitudinally by young, steeply dipping northwest-trending fault zones. The Basin, located at the northerly terminus of the Peninsular Ranges, is the site of active sedimentation and the strata is interpreted to be as much as 31,000 feet thick in the center of the synclinal trough of the Central Block of the Los Angeles Basin.

Based on a review of a number sites on Geotracker, a regulatory database for environmental cleanup sites maintained by the State Water Resources Control Board (SWRCB), depth to groundwater in the vicinity of the Site generally is estimated to be approximately 90 t o 100 feet below ground surface (bgs); although, there is a discontinuous perched zone at some locations between approximately 45-60 feet bgs (Mactec, 2009). There are a number of releases that have contributed to a plume of volatile organic compound (VOC)-impacted groundwater that is likely to underlie much of the Site (Geotracker, 2010). The general surface topography slopes gently towards the southeast. Groundwater gradient has been reported to be primarily towards the east, southeast, and southwest based on a review of sites listed on the Geotracker website.

4.1.5 Oil and Gas Fields

No evidence of oil or gas wells or oil field-related facilities was observed on or adjacent to the Site during the reconnaissance. Leighton Consulting reviewed the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Oil and Gas Map Regional Wildcat Map 1-5 (DOGGR, 2006) and no oil or gas wells were depicted on or adjacent to the Site. According to the City of Los Angeles, Bureau of Engineering Navigate LA website, the Site is



not located within the City of Los Angeles Methane Zone or the Methane Buffer Zone (City of LA, 2010).

4.2 Standard Environmental Record Sources

A search of selected government databases was conducted by Leighton Consulting using the EDR[®] Radius Map Report with GeoCheck (EDR[®] Radius Report), an environmental database report system, prepared by Environmental Data Resources, Inc. (EDR[®]), dated May 18, 2010. Details of the database search along with descriptions of each database researched, and maps identifying the location of sites listed in the regulatory database, are provided in Appendix D, *EDR*[®] *Radius Report*.

Development of the Classification Criteria

For this study, Leighton Consulting has established classification criteria to assist in identifying the potential impacts of each contaminated or potentially contaminated facility that was identified in the EDR® Corridor Report. Each facility was given a hazard ranking of high, moderate, or low that considered facility operation, proximity to the Site, the anticipated hydrogeologic gradient, field observations, and regulatory information. In general, the classification criteria are:

- <u>High</u> facilities with known or probable soil/groundwater contamination (i.e. leaking underground storage tanks [LUSTs]), and facilities where remediation is incomplete or undocumented, and the contamination is known or suspected to exist on the Site. In addition, onsite properties that currently have underground storage tanks (USTs) or historical USTs with an unknown status are generally ranked as High or Moderate.
- <u>Moderate</u> facilities with identified or potential soil contamination (i.e., LUSTs), remediation is in progress, or groundwater contamination that does not appear to be migrating and has not been reported on the Site. Facilities with a heavy industrial/manufacturing background that typically use or have used significant quantities of hazardous materials may also be classified as Moderate.
- <u>Low</u> facilities that completed remediation, have not reported releases of hazardous substances, or have historically utilized only small amounts of known contaminants (i.e. small quantity generators) and are unlikely to negatively affect the Site.



4.2.1 Site

The Site was identified on the EDR® Radius Report under several different databases. Table 3, EDR® Radius Report – Database Review, Onsite Parcels, summarizes the databases listed for the addresses known for the onsite parcels and their hazard potential to impact the Site. The hazard ranking for Table 3 was considered preliminary and the final hazard ranking, included in Table 10, for a parcel may have change based on file reviews.

The onsite parcels that were given a hazard ranking of Moderate to High include the following:

- Parcel 9, 5630 Arbor Vitae Street, Los Angeles, Dollar Rent A Car. Listed as an active UST site and a generator of tetrachloroethylene (PCE) waste.
- Parcel 10, 9323 Bellanca Street, Los Angeles, Western Federal Credit Union. UST(s) reported onsite.
- Parcel 11, 5 600 Arbor Vitae Street and 9320 Bellanca Avenue, Los Angeles, King Delivery Inc. and Allan Jonas. Historical USTs, USTs and open LUST case.
- Parcel 12, 9432 Bellanca Avenue, Flying Tiger Inc. Historical USTs reported onsite.

4.2.2 Offsite

Numerous offsite properties were identified on the EDR® Radius Report. The facilities with reported environmental cases and spill sites were reviewed and given a hazard ranking based on their potential to negatively affect the Site, and are summarized in Table 4, EDR® Report Database Review - Offsite Parcels. Facilities that were reported on the maps provided by EDR® to be greater than 0.25 miles from the Site and/or to have been granted regulatory closure were given a Low hazard ranking and are not included on Table 4. The Geotracker and Envirostor databases were reviewed for facilities with open cases or where additional information was helpful in establishing a hazard ranking and this information is also included in Table 4.

The parcels that were given a hazard ranking of Moderate to High (potential to have caused contamination to soil, soil vapor, or groundwater at the Site) include the following:



- Parcel 1, 9 204 Airport Boulevard, Los Angeles, National Car Rental Systems. Open LUST case and USTs.
- Parcel 7, 5800 Arbor Vitae Avenue, Los Angeles, Neutrogena Facility. Closed diesel LUST case, potential for residual contamination.
- 9225 Aviation Boulevard, Los Angeles, Honeywell International Corp., located adjacent to the east across the railroad right-of-way from Parcels 11 and 12.
 Aerospace manufacturing facility. Release of high concentrations of VOCs to groundwater. The groundwater gradient has been reported to be towards the west.
- 5755 West 96th Street, Los Angeles, Neutrogena Corporation, located adjacent to the south of Parcel 7. This facility has several USTs and is a large quantity generator of hazardous materials, including metals and solvents. There was not a documented release reported; however, there is the potential for these materials to exist on, or directly adjacent to Parcel 7.
- 1237 West Arbor Vitae Street, and 9007 through 9121 Aviation Boulevard, Inglewood, Princeland Properties/Aviation Inglewood LLC/Collins Trust Property, located approximately 0.02 miles to the north-northeast of Parcel 11.
 Release of VOCs to groundwater.
- 9131 Aviation Boulevard, Inglewood, Harry's Airport Garage, located approximately 0.06 miles to the north-northeast of Parcel 11. R elease of fuel related compounds to the groundwater.
- 425 Isis Avenue, Inglewood, Rho-Chem Corp, located approximately 0.3 miles northeast. Extensive release of VOCs to groundwater and the extent of the plume is not well-defined. Groundwater flow direction has been reported to be variable in the general vicinity.
- 8600 Aviation Boulevard, Los Angeles, Tosco 76 Station, located approximately
 0.4 miles to the north. Release of high concentrations of fuel related compounds
 to the groundwater. Groundwater flow was reported to the southwest and the
 plume was not well defined.



4.3 Additional Environmental Record Sources

4.3.1 Regulatory Agency Consultations

Leighton Consulting requested regulatory records from the following regulatory agencies:

- Department of Toxic Substance Control (DTSC)
 - Cypress Division
 - Chatsworth Division
- Los Angeles Regional Water Quality Control Board (LARWQCB)
 - o Site Cleanup Program (LARWQCB-SCP)
 - o Underground Storage Tank Division (LARWQCB-UST)
 - o Spills, Leaks, Investigations, & Cleanup Unit (LARWQCB-SLIC-2)
- Los Angeles Fire Department (LAFD)
 - o Underground Storage Tank Division (LAFD-UST)
 - o Hazardous Material Division (LAFD-Haz Mat)
- Los Angeles City Sanitation

Leighton Consulting requested regulatory records for the addresses provided by the Client and address ranges obtained from the site reconnaissance, the Sanborn Maps, and the City of Los Angeles Department of City Planning, Zone Information and Map Access System (ZIMAS).

In addition, the Site vicinity and addresses were reviewed on the following online regulatory databases:

- South Coast Air Quality Management District (SCAQMD).
- Geotracker (maintained by the SWRCB, includes LUSTs, land disposal sites, other releases, military sites, and permitted USTs).
- Envirostor (maintained by the DTSC, includes DTSC cleanup sites, hazardous waste permitted sites).



A summary of the agency requests and responses is included in Table 5, *Regulatory Agency Requests and Responses*. A summary of the records reviewed is included in Table 6, *Regulatory Agency Review Summary*. Copies of selected documents available for the files reviewed, are included in Appendix E, *Regulatory Agency Documents*.

State of California Radon Survey

In 2005, the California Geological Survey for the State of California Department of Health Services (CDHS) prepared a "Radon Potential Zone Map for Southern Los Angeles County, California", the map indicates that the Site is located within a an area with "low potential for indoor radon levels above 4.0 pi coCuries per liter of air (pCi/L)" (CDHS, 2005).

The CDHS maintains an online database of California indoor radon levels sorted by zip code (CDHS, 2010). According to this database, 55 radon tests have been conducted within the Site zip code of 90045 and only four tests detected radon at greater than 4 pCi/L.

Based on the above information, the potential for elevated levels of naturally occurring radon at the Site appears to be low.

4.4 <u>Historical Use Information on the Property</u>

Leighton Consulting reviewed selected historical information on the Site. These references were reviewed for evidence of activities that would suggest the potential presence of hazardous substances at the Site, and to evaluate the potential for the Site to be impacted by offsite sources of contamination. The following paragraphs are a chronological summary of the review.

4.4.1 Aerial Photographs

Historical aerial photographs were reviewed for information regarding past Site uses. Aerial photographs were reviewed for the following years: 1928, 1938, 1947, 1956, 1965, 1976, 1989, 1994, 2002, and 2005 (EDR, Aerial Photographs, 2010). Copies of the aerial photographs are included in Appendix F, *Aerial Photographs*. A summary of the aerial photograph review is included in Table 7.



The Site appeared to be vacant and/or used for agricultural purposes prior to primary development by at least 1956. The Site has continued to be occupied by light manufacturing, commercial, and residential development to the present.

4.4.2 <u>Historical Topographic Maps</u>

Historical topographic maps were reviewed for information regarding past Site uses. Topographic maps were reviewed for the following years: 1896, 1901, 1924, 1930, 1948, 1950, 1964, 1972, and 1981 (EDR, Topographic Maps, 2010). Copies of the topographic maps are included in Appendix C. A summary of the topographic map review is included in Table 7.

1896, 1901, 1924, 1930, 1948, and 1950: No structures were depicted on the Site. The Topeka and Santa Fe Railroad was depicted running north to south to the east of the Site. Adjacent properties were either vacant or sparsely occupied by small square structures, likely residential. Increased residential and commercial development was observed on adjacent properties in the 1950 topographic map.

1964, 1972, and 1981: The Site and adjacent properties were depicted in a red-shaded area where only primary structures were shown. Two large structures were depicted on the eastern portion of the Site in the topographic maps.

4.4.3 <u>Fire Insurance Maps</u>

Fire insurance maps, or Sanborn® maps, are detailed city plans showing building footprints, construction details, use of structure, street address, etc. The maps were designed to assist fire insurance agents in determining the degree of hazard associated with a particular property. S anborn maps were produced from approximately 1867 to the present for commercial, industrial, and residential sections of approximately 12,000 cities and towns in the United States.

Sanborn® map coverage was not available for the Site. A portion of the adjacent property to the north was available for 1969 and was depicted as an athletic field and a Merle Norman Cosmetics Manufacturing and Warehouse facility. Copies of the maps are included in Appendix G, *Sanborn Maps*.



4.4.4 <u>Historical City Directories</u>

City Directories have been published for cities and towns across the US since the 1700s. Originally a list of residents, the City Directory developed into a tool for locating individuals and businesses in particular. For each street address listed, the directory recorded the name of the resident or business that operated from this addresses. While City Directory coverage is usually comprehensive for major cities, it may be sporadic for rural areas and small towns. The purpose of the City Directory research was to attempt to determine the businesses that were historically located onsite.

City Directory information obtained for the Site and surrounding vicinity is included in the EDR[®] City Directory Abstract, dated June 1, 2010 (Appendix H, *City Directory*). The address listed in Table 1 and their ranges were utilized for the City Directory search and the results are summarized in Table 8, *City Directory Review*.

Facilities identified that have the potential to store hazardous materials or waste included a gas station, car rental companies, a construction company, freight and distribution warehouses, a computer company, and a publishing company.

4.4.5 Property Tax Files

Property tax files were not reviewed as they are not reasonably ascertainable.

4.4.6 Recorded Land Title Records

Chain of Title Reports were not provided by Metro for review as part of this Phase I ESA.

4.4.7 <u>Building Department, Zoning and/or Land Use Records</u>

Building permits were not reviewed as part of this assessment.

4.4.8 Other Historical Sources

Additional resources were not researched as a part of this assessment



4.4.9 Summary of Historical Land Use

The Site appeared to be vacant and/or used for agricultural purposes prior to primary development by at least 1956. The Site has continued to be occupied by light manufacturing, commercial, and residential development to the present. A number of the properties have had, or have fuel USTs onsite, and a summary of the status of USTs on each parcel is included in Table 9, *UST Summary*. A brief summary of the historical land use of each parcel is included in Table 10, *Findings, Conclusions, and Recommendations*.



5.0 SITE RECONNAISSANCE

5.1 <u>Methodology and Limiting Conditions</u>

On May 25, 2010, a representative of Leighton Consulting, Ms. Meredith Church, a California licensed Professional Geologist, conducted a reconnaissance—level assessment of the Site. The Site reconnaissance consisted of the observation and documentation of existing Site conditions and neighboring property development within 0.25-miles of the Site. The Site reconnaissance was conducted from the property perimeter and public right-of-way areas. A ccess was not available for site inspections of the property and building interiors. Photographs of the Site are presented in Appendix B and their view directions are noted on Figure 2, *Site Plan*.

5.2 General Site Setting and Observations

The Site and general vicinity consists of light industrial/manufacturing, commercial, and residential properties, as well as transportation corridors. The Site elevation ranges from approximately 95 to 100 feet above mean sea level (msl) and is generally flat-lying and has a slight topographic gradient towards the southeast.

5.3 <u>Exterior and Interior Observations</u>

5.3.1 Hazardous Substances, Drums, and Other Chemical Containers

A small portable diesel generator, diesel AST, and several 55-gallon drums, likely filled with waste oil and car maintenance-related product, was observed on the eastern portion of Parcel 11 (Photo Nos. 11 and 12). Two large empty plastic ASTs were also observed on the southern portion of Parcel 11 (Photo No. 10).

Interior site inspections were not conducted; however, there is the potential that hazardous materials usage may be associated with the Sunrise Rent A Car on Parcel 1, Neutrogena Corporation on Parcel 7, A vis Rent A Car on Parcel 8, Dollar Rent A Car on Parcels 9 and 11, and Gourmet Logistics Company, a food transportation and distribution company, on Parcel 12. Barthco, located on Parcel 10, is a customs broker, special warehousing and storage, and freight forwarding services company and may also utilize hazardous materials onsite.



The remaining parcels are occupied by a restaurant, motel, and vacant land, and are unlikely to utilize significant quantities of hazardous materials beyond common janitorial and maintenance supplies in retail packaging.

5.3.2 Storage Tanks

A small portable diesel generator, diesel AST, and several 55-gallon drums, likely filled with waste oil and car maintenance-related product, was observed on the eastern portion of Parcel 11 (Photo Nos. 11 and 12). Two large empty plastic ASTs were also observed on the southern portion of Parcel 11 (Photo No. 10).

An AST that appeared to contain water for car washing purposes by Dollar Rent A Car was observed on Parcel 9, and it is likely that one or more clarifiers are located on the property (Photo Nos. 8 and 9). An AST also appeared to be located on the roof of the structure at Parcel 9, product unknown (Photo No. 8)

Parcel 1 appeared to be a former gasoline service station; however, no current tanks were observed on the property.

At least seven ASTs, product unknown, were observed to the south of Parcel 7 on the Neutrogena property (Photo No. 13).

5.3.3 Polychlorinated Biphenyls (PCBs)

PCBs were once used as industrial chemicals whose high stability contributed to both their commercial usefulness and their long-term deleterious environmental and health effects. PCBs can be present in coolants or lubricating oils used in older electrical transformers, hydraulic systems, and other similar equipment. In 1979, the USEPA generally prohibited the domestic use of PCBs in electrical capacitors, electrical transformers, vacuum pumps, hydraulic pumps, and gas turbines.

Several pole-mounted transformers were observed on the property and it is likely that pad-mounted transformers exist on several of the parcels that may contain PCBs. In addition, many of the buildings likely contain PCB containing building materials, such as fluorescent light tubes. There is also the potential for hydraulic hoists associated with the rental car companies if auto repair is conducted onsite.



5.3.4 Waste Disposal

Typical waste bins were observed on several of the parcels and is presumed to be associated with each parcel, with the exception of the vacant land on Parcels 4 and 5.

5.3.5 Dumping

Evidence of dumping was not observed onsite.

5.3.6 Pits, Ponds, Lagoons, Septic Systems, Wastewater, Drains, Cisterns, and Sumps

Evidence of pits, ponds, lagoons, septic systems, wastewater, drains, and cisterns and sumps was not observed onsite; however, a car wash was observed on Parcel 9 and it is likely that there are drains and/or clarifiers located onsite. There may also be drains located inside the structures that are likely connected to the sanitary sewer system.

5.3.7 <u>Pesticide Use</u>

Pesticides were not observed or reported on the Site.

5.3.8 Staining, Discolored Soils and/or Corrosion

Evidence of staining and discolored soils and/or corrosion was not observed onsite.

5.3.9 Stressed Vegetation

Stressed vegetation was not observed onsite.

5.3.10 Unusual Odors

Unusual odors were not detected onsite.

5.3.11 Onsite Wells

Oil, gas production, or groundwater monitoring wells were not observed on onsite; however, Geotracker indicates that four groundwater monitoring wells are



located on the northeast corner of Parcel 11. Numerous groundwater monitoring wells are also shown to be located on the adjacent property to the east.

5.3.12 Other Observations

No additional observations were noted for the Site.



6.0 INTERVIEWS

6.1 <u>Interviews with Owners</u>

Leighton Consulting did not interview property owners as part of this assessment.

6.2 <u>Interview with Site Property/Manager and Occupants</u>

Leighton Consulting did not interview tenants or property managers as part of this assessment.

6.3 <u>Interviews with Local Government Officials</u>

Leighton Consulting did not interview employees of local government agencies to request information regarding historic and current uses of the Site with the exception of those noted in Section 4.2.

6.4 <u>Interviews with Others</u>

Leighton Consulting did not conduct other interviews for this Phase I ESA.



7.0 FINDINGS

This investigation has identified historical and current, onsite and offsite facilities and/or property uses and related environmental issues that have the potential to affect the Site and to affect project construction activities. A list of the findings for each parcel is included in Table 10, *Findings*, *Conclusions*, and *Recommendations*.

7.1 Onsite

The following table summarizes RECs identified onsite that were considered to have a Moderate to High potential to adversely affect the Project. For additional information, see Table 10.

Parcel	Facility	Finding
ID	Name/Address	
8	Avis Rent A Car 5740 Arbor Vitae St Los Angeles	Constructed in 1954. Occupied by FMA Inc. from at least 1964 to 1972, an electronics business. Occupied by several other light industrial businesses. Building may currently be used for offices only; however, it may be used for auto repair. Eastern portion used for parking cars.
9	Dollar Rent A Car 5630 Arbor Vitae St Los Angeles	Constructed in 1958. Occupied by Bendix Computer Company at least in 1962 (manufacturing avionics, etc.) and Control Data Corporation (manufactured computers) from at least 1971 to 1986. Occupied by Dollar Rent-A-Car from at least 1991 to the present, including fuel dispensing, car wash, and auto repair.
10	Gourmet Logistics Co. 9432 Bellanca Ave Los Angeles	Constructed by at least 1956. Property uses largely unknown with the exception that it was formerly used by Western Federal Credit Union, and currently occupied by Barthco, a Customs Broker that also offers freight forwarding services. A UST is permitted to this site.



Parcel	Facility	Finding
ID	Name/Address	
11	Dollar Rent A Car 9310/9430 Bellanca Ave Los Angeles	Occupied by a number of light industrial facilities from at least 1953 to late 2000, including freight, printing, and sheet metal fabrication. King Delivery, Inc., located at the northeastern portion of the site had two fuel (gasoline and diesel) USTs removed in 1987 and a release to soil and groundwater was discovered. The historical UST database indicated this facility had four fuel USTs and the status of the additional two USTs is unknown. The LUST case is open and the 4th quarter 2008 monitoring report detected gasoline up to 110,000 micrograms per liter (ug/L) and benzene up to 18,000 ug/L. The plume has migrated offsite to the southeast and comingled with a chlorinated plume at the Hertz property located at 9225 Aviation Blvd. Currently, an SVE test system is proposed to address the deep contaminants from the former UST area and a series of injection wells are proposed with Regenox and ORC to be injected. DTG Operations, located at 9310 Bellanca Ave in the central portion of the property, had a service station permit in 2007 to store and dispense gasoline; however, the number, content, and status of the UST(s) is unknown at this time. In addition, Allan Jonas, located at 9320 Bellanca Ave, and Blanca Air Freight, located at 9326 Bellanca Ave, both in the central portion of the site, are listed as having historical USTs; however, the number, content, and status of the UST(s) are unknown at this time. The site is currently utilized by Dollar Rental Car, primarily for parking purposes, and all former structures have been removed from the site, with the exception of one small shed. There are outdoor areas used for storage, including several 55-gallon drums of waste oil and a diesel AST observed in the east-central portion of the site.
12	Gourmet Logistics Co. 9432 Bellanca Ave Los Angeles	Constructed in 1969 and occupied by Perfect Towel and Linen Supply Co. from at least 1969 to 1976. This facility washed sheets and towels and had a cooling tower for a dry cleaning solvent unit. Occupied by cargo/freight businesses from at least
		1980 to 1986. Flying Tiger Line, Inc. was listed on historical UST databases and the site was listed as inactive with no current USTs. GLC specializes in refrigeration and handling of perishable products and food transportation and distribution.



7.2 Offsite

The following table summarizes offsite locations that were identified to have releases that may have potentially migrated onto the Site. The primary affected media of concern is groundwater and soil vapor; although there is the potential for adjacent properties to have potentially affected the onsite soils as well. For additional information, see Table 4.

~Location	Facility Name/Address	Finding
Parcel 1. 0.13 miles west of Parcel 8.	Surprise Rent A Car 9204 Airport Blvd Los Angeles	Former gas station from 1954 to 1975 and used for car rental purposes from 1975 to the present. At least two fuel USTs have been removed from the site, and the status of a third UST is unknown. Listed on the EDR® Radius Report as a LUST site; however, Geotracker and the RWQCB did not have files for the site.
Parcel 7. Adjacent to west of Parcel 8	Neutrogena Corp 5800 Arbor Vitae St Los Angeles	Originally developed in approximately 1955. Occupied by the U.S. Air Force Contract Management Division and Employment Office from at least 1967 to 1971, and Space Technologies Laboratory from at least 1958 to 1961. Occupied by Northrop University from at least 1986 to 1990. A 2,000-gallon diesel UST was removed in 1993 and granted closure in 1997. Some residual contamination remained at 55 feet bgs; however, the case was granted closure in 1997.
Adjacent to east across railroad right-of-way	Honeywell International Corp. 9225 Aviation Blvd Los Angeles	Aerospace manufacturing facility. Release of high concentrations of VOCs to groundwater. The groundwater gradient has been reported to be towards the west.
Adjacent to south of Parcel 7	Neutrogena Corporation 5755 West 96 th Street Los Angeles	This facility has several USTs and is a large quantity generator of hazardous materials, including metals and solvents. There was not a documented release reported; however, there is the potential for these materials to exist on, or directly adjacent to Parcel 7.
0.02 miles north- northeast of Parcel 11	Princeland Properties/Aviation Inglewood LLC/Collins Trust 11237 Arbor Vitae Street & 9007- 9121 Aviation Blvd, Inglewood	Release of VOCs to groundwater.
0.06 miles north- northeast of Parcel 11	Harry's Airport Garage 9131 Aviation Boulevard Inglewood	Release of fuel related compounds to the groundwater.
0.3 miles northeast	Rho-Chem Corporation 425 Isis Avenue Inglewood	Extensive release of VOCs to groundwater and the extent of the plume is not well-defined.
0.4 miles north	Tosco 76 Station 8600 Aviation Boulevard Los Angeles	Release of high concentrations of fuel related compounds to the groundwater and the plume was not well defined.



7.3 <u>Data Gaps</u>

ASTM E1527-05 requires review of standard historical sources (SHS) at approximate five-year intervals from at least 1940 to the present, or the earliest development of the site. The availability of extensive historical information varies significantly between locations and it is common to have gaps in the data for one or more of the periods where historical property uses are unknown or uncertain. There is also a potential for unidentified uses to have occurred between data points, or prior to the earliest acquired data.

The earliest data acquired for the Site indicating past property usage was from 1924. There were intermittent gaps throughout the data collected, where historical property uses are unknown or uncertain. These data gaps where property use is unknown could be significant if a REC was associated with one of these gaps; however, reasonably ascertainable information has been reviewed and data gaps cannot be wholly eliminated from a project of this size. Existing data gaps include the following:

- Owner and tenant interviews were not conducted on any of the parcels. Owners and tenants may have additional information as to the status of USTs, location of hazardous materials use and storage areas, prior environmental reports, etc.
- Site inspections were conducted from the property border and public right-of-ways. Interior site inspections were not conducted, and such inspections would assist in identifying locations where hazardous materials are use and stored, and the location of possible underground features such as drains, USTs, and/or clarifiers.
- Building permits were not reviewed as part of this assessment. B ased on files
 reviewed from other agencies and the amount of historical information reviewed, this
 data gap has a low potential to alter the conclusions or recommendations of this
 report.
- Evidence of environmental liens, or activity and land use limitations were not reviewed. It is the responsibility of the User to verify the status of environmental liens, or activity and use limitations in order to qualify for CERCLA landowner liability protections.



8.0 OPINION

8.1 Onsite

It is Leighton Consulting's opinion that RECs have been identified onsite as stated in Section 7.1, and that a comprehensive Phase II ESA program should be initiated prior to property purchase to address the identified RECs. It is also Leighton Consulting's opinion that a CERCLA compliant Phase I ESA, that is conducted within 6 months of property purchase, be conducted in order to be eligible for CERCLA liability protections, and that interior site inspections and owner/tenant interviews be conducted at this time, as well as a review for environmental liens.

8.2 Offsite

It is Leighton Consulting's opinion that this assessment has identified offsite areas of potential environmental concern that have a potential to impact the subject property, as identified in Section 7.2 that warrant further investigation prior to property purchase.



9.0 CONCLUSIONS AND RECOMMENDATIONS

Leighton Consulting has performed a Phase I ESA in accordance with the scope and limitations of ASTM Practice E1527-05 of the Crenshaw/LAX LRT Maintenance Facility, Site 14, located at Arbor Vitae Street and Bellanca Avenue in the City of Los Angeles, California. Exceptions to, or deletions from this practice are described in Section 1.5 of this report.

Leighton Consulting concludes that the onsite and offsite findings listed in Section 7.1 constitute RECs and makes the following recommendations to address the RECs:

- <u>Site Specific Phase II ESA</u> Phase II ESAs, including soil, soil vapor sampling, and geophysical surveys for areas where the status of USTs is unknown, are recommended at the following locations to address identified RECs (current business names listed):
 - o Parcel 8, Avis Rent A Car, 5740 Arbor Vitae Street, Los Angeles
 - o Parcel 9, Dollar Rent A Car, 5630 Arbor Vitae Street, Los Angeles
 - o Parcel 10, Gourmet Logistics Company, 9432 Bellanca Avenue, Los Angeles
 - o Parcel 11, Dollar Rent A Car, 9310 and 9340 Bellanca Avenue, Los Angeles
 - o Parcel 12, Gourmet Logistics Company, 9432 Bellanca Avenue, Los Angeles

Based on numerous onsite and offsite sources releases of petroleum hydrocarbons and VOCs to groundwater, Leighton recommends that a Site wide soil vapor survey be conducted, particularly in areas where onsite structures are planned. Groundwater is generally located approximately 90 to 150 feet bgs and would not be anticipated to be encountered during construction activities; however, based on the results of the soil sampling, it may be necessary to sample groundwater as well. There is the potential for impacts to groundwater from both onsite and offsite sources.

- <u>UST Removal</u> Existing USTs should be removed from the Site according to LAFD regulations, prior to Site redevelopment. In addition, subsurface clarifiers or hoists should be removed appropriately and confirmation soil sampling should be conducted beneath the removed features.
- <u>Parcel 11 G roundwater Remediation</u>: There is an open LUST case on Parcel 11 with groundwater remediation currently being conducted. Leighton Consulting recommends that the groundwater remediation continue under the guidance of the RWQCB until closure is granted.



In addition, Leighton makes the following general recommendations:

- <u>Hazardous Building Materials Surveys</u> Surveys for asbestos containing building materials, lead-based paint, and miscellaneous toxic material surveys should be conducted on buildings that will be demolished in association with Project construction, particularly in buildings constructed before the mid-1980s.
- <u>Hazardous Material and Debris Removal</u> Hazardous materials and waste were observed at several business locations that appeared to be stored appropriately. Tenants or owners should remove and/or dispose of these materials appropriately when their lease is terminated or their property is acquired. Hazardous materials, drums, and debris left by tenants/owners should be disposed of in accordance with regulatory guidelines prior to construction.
- Soil Mitigation Plan (SMP) A SMP should be prepared after Project construction plans are available that describe the engineering and geotechnical earthwork requirements, including the lateral and vertical extent of soil removals/recompaction. The soil mitigation plan should establish soil screening, sampling, stockpiling, reuse, disposal, and import soil screening criteria. The soil mitigation plan should also discuss SCAQMD permits and requirements, and present methods for controlling fugitive dust and VOC emissions. Soil screening should be performed using visual observation, and photo-ionization detectors (PIDs) for VOCs during grading or excavation activities. Soils that are suspected of contamination based on field observations and PID readings are recommended to be segregated, stockpiled, and sampled for analysis for suspected chemicals by a California certified laboratory. Contaminated soil that does not meet the reuse criteria should be removed, transported, and disposed at an approved disposal location or recycling facility in accordance with state and federal laws.
- Health and Safety Plan (HSP) A site-specific HSP should be developed for persons with potential exposure to the constituents of concern identified in the recommended Phase II ESA. Perched groundwater has been reported as shallow as 45 feet bgs within the vicinity of the Site. Due to prevalent groundwater contamination in the Project area, a construction Health and Safety Plan (HSP) should address proper handling procedures if groundwater is expected to be encountered. In addition, if dewatering will be required, groundwater sampling and analysis should be conducted prior to dewatering and/or disposal activities. Contaminated groundwater, if identified, could be transported to an appropriate water treatment facility, or could be treated on-site prior to discharge to the municipal sewer system or storm drain under an approved National Pollutant Discharge Elimination System (NPDES) permit.



- <u>Construction Observations</u> In general, observations should be made during future development activities for features of concern or areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, soil staining or odorous soils. Further investigation and analysis may be necessary, should such materials be encountered.
- Additional Due Diligence Activities For properties purchased for this Project, Leighton
 Consulting recommends that a CERCLA compliant Phase I ESA that is conducted within 6
 months of property purchase be conducted in order to be eligible for CERCLA liability
 protections, and that interior site inspections and owner/tenant interviews be conducted at
 this time, as well as a review for environmental liens.



10.0 DEVIATIONS

Leighton Consulting did not deviate from or alter the scope of work, as defined in Section 1.3 of this report.



11.0 ADDITIONAL SERVICES

Leighton Consulting did not perform work outside the scope of work as defined in Section 1.3 of this report.



12.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

12.1 <u>Corporate</u>

Leighton Consulting, Inc. is a California corporation, providing geotechnical and environmental consulting services throughout California. We are solely a consulting firm without interests in real property other than our eight offices in Southern California. We provide professional environmental consulting services including application of science and engineering to environmental compliance, hazardous materials/waste assessment and cleanup, and management of hazardous, solid, and industrial waste. P hase I Environmental Site Assessments are a part of this practice area and have been conducted by us.

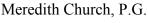
12.2 Individual

The qualifications of the Project Manager and the other Leighton Consulting environmental professionals involved in this Phase I ESA meet the Leighton corporate requirements for performing Phase I ESAs as specified by ASTM E1527-05. In addition, Ms. Meredith Church is a Registered Professional Geologist.

12.3 <u>Environmental Professional Statement</u>

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Meredill Church

Project Geologist



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