

June 14, 2011



Jay Neuhaus
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

ELAP No.:1838
NELAP No.:02107CA
CSDLAC No.:10196
ORELAP No.:CA300003

Workorder No.: 118242

RE: MTA Westside, 4953-10-1561

Attention: Jay Neuhaus

Enclosed are the results for sample(s) received on June 07, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: MACTEC
Project: MTA Westside, 4953-10-1561
Lab Order: 118242

CASE NARRATIVE

The samples for EPA 1516 analysis were subcontracted to Air Technology Lab.

Analytical Comments for EPA TO15

Samples 118242-001A, 118242-002A, 118242-003A and 118242-004A, dilution was necessary due to high concentration of unknown and non-target compounds in the sample.

Sample 118242-004A, surrogate recovery biased high possibly due to matrix interferences.



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 14-Jun-11

CLIENT: MACTEC	Client Sample ID: M-110-35'
Lab Order: 118242	Collection Date: 6/7/2011 10:45:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: AIR
Lab ID: 118242-001A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110608A	QC Batch: Z11A025	PrepDate:	Analyst: BB		
Methane	290000	5000	ppmv	500	6/8/2011 01:35 PM

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110609A	QC Batch: W11A067	PrepDate:	Analyst: DMP		
Hexane	1800	50	ppbv	200	6/9/2011 07:49 PM
Surr: 4-Bromofluorobenzene	111	70-130	%REC	200	6/9/2011 07:49 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 14-Jun-11

CLIENT: MACTEC	Client Sample ID: M-110-23'
Lab Order: 118242	Collection Date: 6/7/2011 10:10:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: AIR
Lab ID: 118242-002A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110608A	QC Batch: Z11A025	PrepDate:	Analyst: BB		
Methane	520000	5000	ppmv	500	6/8/2011 02:05 PM

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110609A	QC Batch: W11A067	PrepDate:	Analyst: DMP		
Hexane	1000	50	ppbv	200	6/9/2011 08:25 PM
Surr: 4-Bromofluorobenzene	112	70-130	%REC	200	6/9/2011 08:25 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 14-Jun-11

CLIENT: MACTEC	Client Sample ID: M-113-12'
Lab Order: 118242	Collection Date: 6/7/2011 11:11:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: AIR
Lab ID: 118242-003A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110608A	QC Batch: Z11A025	PrepDate:	Analyst: BB
Methane	68000	1000	ppmv
			100
			6/8/2011 02:34 PM

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110609A	QC Batch: W11A067	PrepDate:	Analyst: DMP
Hexane	28	5.0	ppbv
			20
Surr: 4-Bromofluorobenzene	116	70-130	%REC
			20
			6/9/2011 09:01 PM
			6/9/2011 09:01 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 14-Jun-11

CLIENT: MACTEC	Client Sample ID: M-111-55'
Lab Order: 118242	Collection Date: 6/7/2011 1:40:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: AIR
Lab ID: 118242-004A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110608A	QC Batch: Z11A025	PrepDate:	Analyst: BB
Methane	2000	20	ppmv
			2
			6/8/2011 03:00 PM

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110609A	QC Batch: W11A067	PrepDate:	Analyst: DMP
Hexane	9.0	5.0	ppbv
			20
			6/9/2011 09:37 PM
Surr: 4-Bromofluorobenzene	175	70-130	S %REC
			20
			6/9/2011 09:37 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



*Advanced Technology
 Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
Work Order: 118242
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A025	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 133782						
Client ID: ZZZZZZ	Batch ID: Z11A025	TestNo: ASTM D1946		Analysis Date: 6/8/2011	SeqNo: 2184108						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane ND 10

Sample ID: LCS-Z11A025	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 133782						
Client ID: ZZZZZZ	Batch ID: Z11A025	TestNo: ASTM D1946		Analysis Date: 6/8/2011	SeqNo: 2184109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

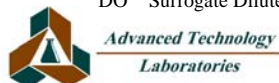
Methane 1086.844 10 1000 0 109 70 130

Sample ID: LCSD-Z11A025	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 133782						
Client ID: ZZZZZZ	Batch ID: Z11A025	TestNo: ASTM D1946		Analysis Date: 6/8/2011	SeqNo: 2184110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 1106.415 10 1000 0 111 70 130 1087 1.78 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: MACTEC
Work Order: 118242
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

Sample ID: MB-W11A067	SampType: MBLK	TestCode: TO15	Units: ppbv	Prep Date:	RunNo: 133806						
Client ID: ZZZZZZ	Batch ID: W11A067	TestNo: EPA TO15		Analysis Date: 6/9/2011	SeqNo: 2184610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexane	ND	0.25									
Surr: 4-Bromofluorobenzene	2.550		2.500		102	70	130				

Sample ID: LCS-W11A067	SampType: LCS	TestCode: TO15	Units: ppbv	Prep Date:	RunNo: 133806						
Client ID: ZZZZZZ	Batch ID: W11A067	TestNo: EPA TO15		Analysis Date: 6/9/2011	SeqNo: 2184611						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

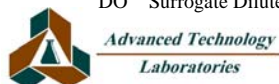
Surr: 4-Bromofluorobenzene	2.560		2.500		102	70	130				
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Sample ID: LCSD-W11A067	SampType: LCSD	TestCode: TO15	Units: ppbv	Prep Date:	RunNo: 133806						
Client ID: ZZZZZZ	Batch ID: W11A067	TestNo: EPA TO15		Analysis Date: 6/9/2011	SeqNo: 2184612						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	2.520		2.500		101	70	130		0	0	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



June 16, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 118242
Lab Number: C060815-01/04

Enclosed are results for sample(s) received 6/08/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

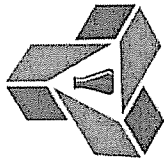
Sincerely,

A handwritten signature in black ink, appearing to read 'M. Johnson'.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.



Advanced Technology Laboratories
 3275 Walnut Avenue, Signal Hill, CA 90755-5225
 www.atglobal.com
 TEL: (562) 989-4045 FAX: (562) 989-4040

0600815-01/04

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Air Technology Laboratories
 18501 E. Gale Ave, Suite 130
 City of Industry, CA 91748

TEL: (626) 964-4032
 FAX: (626) 964-5832
 Acct #:

Field Sampler: Rachel Mills

07-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests	
118242-001B / M-110-35'	Air	6/7/2011 10:45:00 AM	TEDLAR BAG	1		
118242-002B / M-110-23'	Air	6/7/2011 10:10:00 AM	TEDLAR BAG	1		
118242-003B / M-113-12'	Air	6/7/2011 11:11:00 AM	TEDLAR BAG	1		
118242-004B / M-111-55'	Air	6/7/2011 1:40:00 PM	TEDLAR BAG	1		

-01
-02
-03
-04

General Comments: Please email sample receipt acknowledgement to the PM. *(RA)*

Please use PO#: SC06479 Please fax results by: NORMAL TAT

ANALYZE THE SAMPLES FOR H2S BY EPA 1516.

PLEASE SEND REPORT TO RCHAHILLE ARADA

Relinquished by:	<i>[Signature]</i>	Date/Time	6/7/11
Relinquished by:	<i>[Signature]</i>	Date/Time	6/8/11 15:12

Received by:	<i>[Signature]</i>	Date/Time	6/8/11 15:12
Received by:	<i>[Signature]</i>	Date/Time	6/8/11 15:12

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

Quote #: _____ Date: 6/7/11
 Logged By: _____
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:
 Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: MACTEC Address: 2171 Campus Dr. Ste. 100 TEL: (949) 224-0050
 Attn: Jay Neuhaus City: Irving State: CA Zip Code: 92612 FAX: _____
 Project Name: MTA Westside Project #: 4953-10-156 Sampler: Rachel Mills (Printed Name) (Signature)
 Relinquished by: Rachel Mills Date: 6/7/11 Received by: Rachel Mills Date: 6/7/11 Time: 1636
 Relinquished by: _____ Date: _____ Received by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Received by: _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr/Submitter: _____
 Signature: Rachel Mills Date: 6/7/11
 Signature: Rachel Mills

Send Report To:
 Attn: Jay Neuhaus
 Co: Mactec
 Addr: Same as Above
 City: _____ State: _____ Zip: _____

Bill To:
 Attn: Same as above
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments:

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description	Date	Time
	Batch #:	Lab No.			
	<u>118242</u>	<u>- 1</u>	<u>M-110-35'</u>	<u>6/7/11</u>	<u>10:45</u>
	<u>↓</u>	<u>- 2</u>	<u>M-110-23'</u>	<u>↓</u>	<u>10:10</u>
	<u>↓</u>	<u>- 3</u>	<u>M-113-12'</u>	<u>↓</u>	<u>11:11</u>
	<u>↓</u>	<u>- 4</u>	<u>M-111-55'</u>	<u>↓</u>	<u>1340</u>

SPECIFY APPROPRIATE MATRIX

Matrix	Container(s)	TAT	Type
SEDIMENT			
SOIL			
DRINKING WATER			
GROUND WATER			
WASTEWATER			
STORMWATER			
AQUEOUS			

RESERVATION

Circle or Add Analysis(es) Requested	Container(s)	TAT	Type
8081A (Pesticides)			
8260B (NOx/NO2)			
8270C (BNA)			
8010B (Total Metal)			
8015B (GRO) / 8021 (BTEX)			
8015B (DRO)			
TITLE 22 / CAM 17 (6010 / 7000)			
Hexane, H2S, Fixed Gases			

QA/QC

RTNE	CT	Legal	SWRCB	Logcode	OTHER	REMARKS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Preservatives:
 HI=HCl N=HNO3 S=H2SO4 C=4°C
 Z=Zn(Ac)2 O=NaOH T=Na2S2O3

Figure G-3.4.13

G-3.5

MTA Westside Extension PE Phase

Vapor Sample Data

Location: M-112

July 21, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 119008
Lab Number: C072001-01

Enclosed are results for sample(s) received 7/20/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

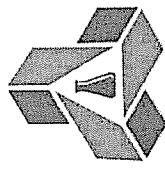
Note: The cover letter is an integral part of this analytical report.

072001-01

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040



QC Level: RTNE

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: ANTHONY MARINO

19-Jul-11

Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests
119008-001B / M-112 stanpipe @ 70'	Air	7/19/2011 12:45:00 PM	TEDLAR BAG	1	

General Comments: Please email sample receipt acknowledgement to the PM. *(RM)*
 Please use PO#: SC06566 Please fax results by: 7/21/11
 Please analyze sample for H2S by EPA 1516
 Please send report to Rachelle Arada

Date/Time	Received by:	Date/Time	Received by:
7/19/11 16:22	<i>[Signature]</i>	7/20/11 9:21	<i>[Signature]</i>

July 26, 2011



Anthony Marino
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 119008

RE: MTA Westside Extention, 4953101561 / 5.2

Attention: Anthony Marino

Enclosed are the results for sample(s) received on July 19, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: MACTEC
Project: MTA Westside Extention, 4953101561 / 5.2
Lab Order: 119008

CASE NARRATIVE

The sample for EPA 1516 analysis was subcontracted to Air Technology Lab.



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 26-Jul-11

CLIENT: MACTEC	Client Sample ID: M-112 stanpipe @ 70'
Lab Order: 119008	Collection Date: 7/19/2011 12:45:00 PM
Project: MTA Westside Extention, 4953101561 / 5.2	Matrix: AIR
Lab ID: 119008-001A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110720A	QC Batch: Z11A035	PrepDate:	Analyst: DMP	
Methane	860000	10000 ppmv	1000	7/20/2011 12:53 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
Work Order: 119008
Project: MTA Westside Extention, 4953101561 / 5.2

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A035	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 135224						
Client ID: ZZZZZZ	Batch ID: Z11A035	TestNo: ASTM D1946		Analysis Date: 7/20/2011	SeqNo: 2213607						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane ND 10

Sample ID: LCS-Z11A035	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 135224						
Client ID: ZZZZZZ	Batch ID: Z11A035	TestNo: ASTM D1946		Analysis Date: 7/20/2011	SeqNo: 2213610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

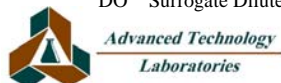
Methane 999.450 10 1000 0 99.9 70 130

Sample ID: LCSD-Z11A035	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 135224						
Client ID: ZZZZZZ	Batch ID: Z11A035	TestNo: ASTM D1946		Analysis Date: 7/20/2011	SeqNo: 2213611						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 1012.047 10 1000 0 101 70 130 999.4 1.25 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



July 21, 2011

Advanced Technology Laboratories
ATTN: Rachele Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 119008
Lab Number: C072001-01

Enclosed are results for sample(s) received 7/20/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink that appears to read 'Mark Johnson'.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

QC Batch No.: 110720GC3A1
 Matrix: Air
 Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank	LCS		LCSD				
Date Analyzed:	07/20/11	07/20/11		07/20/11				
Analyst Initials:	ZK	ZK		ZK				
Datafile:	20jul004	20jul001		20jul003				
Dilution Factor:	1.0	1.0		1.0				
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	77	70-130%	89	70-130%	14	<30

ND = Not Detected (Below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark J. Johnson *[Signature]* Date: 7/21/11
 Operations Manager

The cover letter is an integral part of this analytical report.

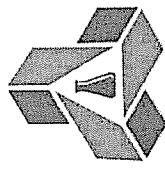


072001-01

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040



QC Level: RTNE

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: ANTHONY MARINO


19-Jul-11

Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests
119008-001B / M-112 stanpipe @ 70'	Air	7/19/2011 12:45:00 PM	TEDLAR BAG	1	

General Comments: Please email sample receipt acknowledgement to the PM. *(RM)*
 Please use PO#: SC06566 Please fax results by: 7/21/11
 Please analyze sample for H2S by EPA 1516
 Please send report to Rachelle Arada

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	7/19/11 16:22	<i>[Signature]</i>	7/20/11 9:21
Relinquished by:		Received by:	

CHAIN OF CUSTODY RECORD



3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____ Quote #: _____
 Logged By: [Signature] Date: 7/19/11
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY

Method of Transport:
 Client
 FedEx
 GSO
 Other: _____

Sample Condition Upon Receipt:
 1. CHILLED
 2. HEADSPACE (VOA)
 3. CONTAINER INTACT
 4. SEALED
 5. # OF SPLS MATCH COC
 6. PRESERVED

Tel: 949-224-0050
 Fax: 949-224-0073

Address: 2171 Campus Drive, Suite 100
 City: Irvine State: CA Zip Code: 92612

Sampler: ANTHONY MARINO (Signature)
 Date: 7/19/11 Time: 15:06

Received by: [Signature] (Signature and Printed Name)
 Date: _____ Time: _____

Received by: [Signature] (Signature and Printed Name)
 Date: _____ Time: _____

Relinquished by: Anthony Marino (Signature and Printed Name)
 Date: 7/19/11 Time: 3:06

Relinquished by: [Signature] (Signature and Printed Name)
 Date: _____ Time: _____

Relinquished by: [Signature] (Signature and Printed Name)
 Date: _____ Time: _____

Project #: 4953101561 / 5.2

Project Name: MTA Westside Extension

Project Mgr / Submitter: Jay R. Neuhaus/A. Marino
 Print Name: [Signature] Date: _____

Send Report To:
 Attn: Anthony Marino
 Co: MACTEC Engineering & Consulting Inc.
 Addr: 2171 Campus Drive, Suite 100
 City: Irvine State: CA Zip: 92612

LAB USE ONLY:

Batch #: _____ Lab No.: 119008-07

Sample ID / Location: M-112 stanpipe @ 70'

Sample Description: _____

Date: 7/19/11 Time: 12:45

Circle or Add Analysis(es) Requested:
 FIXED GASES
 HYDROGEN SULFIDE
 METHANE
 AIR
 SEDIMENT
 SOLID
 GROUND WATER
 DRINKING WATER
 WASTEWATER
 STORMWATER
 AQUEOUS

Storage Fees (applies when storage is requested):
 Sample: \$2.00 / sample /mo (after 45 days)
 Records: \$1 /ATL workorder /mo (after 1 year)

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Jay R. Neuhaus/A. Marino
 Print Name: [Signature] Date: _____

Special Instructions/Comments:
Tyler Thurman
MACTEC Engineering & Consulting Inc.
5628 E. Slauson Ave.
City: Los Angeles State: CA Zip: 90040

QA/QC
 RTNE
 CT
 Legal
 SWRCB
 Logcode
 OTHER: _____

Container(s) TAT # Type
2 15
 REMARKS

TAT: A = Overnight ≤ 24 hrs
 B = Emergency Next Workday
 C = Critical 2 Workdays
 D = Urgent 3 Workdays
 E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Teclar G=Glass P=Plastic M=Metal

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Figure G-3.5.13

G-3.6

MTA Westside Extension PE Phase

Vapor Sample Data

Location: M-115

June 29, 2011



Jay Neuhaus
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 118543

RE: MTA WSE, 4953101561

Attention: Jay Neuhaus

Enclosed are the results for sample(s) received on June 21, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: MACTEC
Project: MTA WSE, 4953101561
Lab Order: 118543

CASE NARRATIVE

The sample for EPA 1516 analysis was subcontracted to Air Technology Lab.



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 29-Jun-11

CLIENT: MACTEC	Client Sample ID: M-115
Lab Order: 118543	Collection Date: 6/21/2011 9:37:00 AM
Project: MTA WSE, 4953101561	Matrix: AIR
Lab ID: 118543-001A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
-----------------	---------------	------------	-------------	--------------	-----------	----------------------

GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110622A	QC Batch: Z11A027	PrepDate:	Analyst: BB	
Methane	660000	5000 ppmv	500	6/22/2011 03:07 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
Work Order: 118543
Project: MTA WSE, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A027	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134311						
Client ID: ZZZZZZ	Batch ID: Z11A027	TestNo: ASTM D1946		Analysis Date: 6/22/2011	SeqNo: 2195261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	10									
---------	----	----	--	--	--	--	--	--	--	--	--

Sample ID: LCS-Z11A027	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134311						
Client ID: ZZZZZZ	Batch ID: Z11A027	TestNo: ASTM D1946		Analysis Date: 6/22/2011	SeqNo: 2195262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

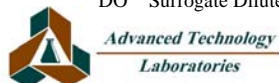
Methane	1099.446	10	1000	0	110	70	130				
---------	----------	----	------	---	-----	----	-----	--	--	--	--

Sample ID: LCSD-Z11A027	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134311						
Client ID: ZZZZZZ	Batch ID: Z11A027	TestNo: ASTM D1946		Analysis Date: 6/22/2011	SeqNo: 2195263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	1061.890	10	1000	0	106	70	130	1099	3.48	20	
---------	----------	----	------	---	-----	----	-----	------	------	----	--

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



July 5, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 118543
Lab Number: C062203-01

Enclosed are results for sample(s) received 6/22/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
 Attn: Rachelle Arada
 Project Name: NA
 Project No.: 118543
 Date Received: 06/22/11
 Matrix: Air
 Reporting Units: ppmv

EPA 15/16

Lab No.:	C062203-01					
Client Sample I.D.:	118543-001B / M-115					
Date Sampled:	06/21/11					
Date Analyzed:	06/24/11					
QC Batch No.:	110624GC3A1					
Analyst Initials:	ZK					
Dilution Factor:	1.0					
ANALYTE	Result ppmv	RL ppmv				
Hydrogen Sulfide	ND	0.20				

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 7-5-11

The cover letter is an integral part of this analytical report



QC Batch No.: 110624GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank	LCS	LCSD					
Date Analyzed:	06/24/11	06/24/11	06/24/11					
Analyst Initials:	ZK	ZK	ZK					
Datafile:	24jun004	24jun002	24jun003					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	98	70-130%	100	70-130%	1.8	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: Mark J. Johnson
Mark J. Johnson
Operations Manager

Date: 6-30-11

The cover letter is an integral part of this analytical report.

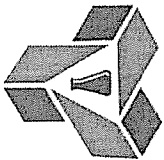


062203-01

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040



QC Level: RTNE

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

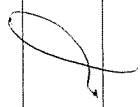

Field Sampler: ANTHONY MARINO

21-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests
118543-001B / M-115	Air	6/21/2011 9:37:00 AM	TEDLAR BAG	1	

01

General Comments: Please email sample receipt acknowledgement to the PM. ^(RA)
 Please use PO#: SC06515 Please fax results by: ~~NORMAL~~ TAT
 ANALYZE THE SAMPLE FOR H2S BY EPA 1516
 PLEASE SEND REPORT TO RACHELLE ARADA

Relinquished by: 	Date/Time: 6/21/11
Relinquished by: 	Date/Time: 6/22/11 1107

CHAIN OF CUSTODY RECORD


 <p>ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		P.O.#: _____ Quote #: _____ Logged By: <u>J</u> Date: <u>6/21/11</u> NOTE: Please include your Quote No. to ensure proper pricing of your project.		FOR LABORATORY USE ONLY: Method of Transport <input checked="" type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____ Sample Condition Upon Receipt 1. CHILLED <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	
Client: AMEC / MACTEC Attn: _____ Address: 2171 CAMPOS DR City: IRVINE State: CA Zip Code: _____ TEL: 949-224-0050 FAX: 949-224-0073		Project Name: MTA WSE Project #: 495310561 Sampler: ANTHONY MARIÑO Relinquished by: (Signature and Printed Name) <u>Anthony Marinio</u> Date: <u>6/21/11</u> Time: <u>130</u> Relinquished by: (Signature and Printed Name) <u>Anthony Marinio</u> Date: <u>6/21/11</u> Time: <u>1330</u> Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____		Method of Transport <input checked="" type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____ Sample Condition Upon Receipt 1. CHILLED <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	
I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: ANTHONY MARIÑO Signature: <u>Anthony Marinio</u> Date: _____		Bill To: _____ Attn: Tyler Thurman Co: AMEC Addr: SLAUSON AVE City: LA State: CA Zip: _____		Special Instructions/Comments: _____ _____ _____	
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): • Sample : \$2.00 / sample / mo (after 45 days) • Records : \$1.00 / ATL workorder / mo (after 1 year)		Send Report To: Attn: JAY R. NEUBAUS Co: AMEC Addr: _____ City: _____ State: _____ Zip: _____		Circle or Add Analysis(es) Requested <input checked="" type="checkbox"/> 8081A (pesticides) <input checked="" type="checkbox"/> 8082 (PCB) <input checked="" type="checkbox"/> 8260B (Nitrates) <input checked="" type="checkbox"/> 8270C (BNA) <input checked="" type="checkbox"/> 6010B (Total Metal) <input checked="" type="checkbox"/> 8015B (GRO) / 8021 (BTEX) <input checked="" type="checkbox"/> 8015B (DRO) <input checked="" type="checkbox"/> TITLE 22 / CAM 17 (6010 / 7000) <input checked="" type="checkbox"/> FIXED GASES <input checked="" type="checkbox"/> HYDROCARBON SUPTIOR <input checked="" type="checkbox"/> METHANE <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> SOIL <input checked="" type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> STORMWATER <input checked="" type="checkbox"/> AQUEOUS <input checked="" type="checkbox"/> AIR	
I T E M LAB USE ONLY: Batch #: _____ Lab No.: <u>118543-01</u>		Sample Description <u>M-115</u>		Date <u>6/21/11</u> Time: <u>937</u>	
TAT: <input type="checkbox"/> A= Overnight ≤ 24 hrs <input type="checkbox"/> B= Emergency Next workday <input type="checkbox"/> C= Critical 2 Workdays <input type="checkbox"/> D= Urgent 3 Workdays <input type="checkbox"/> E= Routine 7 Workdays		Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃	

Figure G-3.6.9

G-3.7

MTA Westside Extension PE Phase

Vapor Sample Data

Location: M-116 & M-119 (Deep & Shallow)

June 30, 2011



Anthony Marino
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 118572

RE: MTA Westside Extention, 4953101561/5.2

Attention: Anthony Marino

Enclosed are the results for sample(s) received on June 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: MACTEC
Project: MTA Westside Extention, 4953101561/5.2
Lab Order: 118572

CASE NARRATIVE

The samples for EPA 1516 analysis were subcontracted to Air Technology Lab.



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 30-Jun-11

CLIENT:	MACTEC	Client Sample ID:	M-116
Lab Order:	118572	Collection Date:	6/22/2011 11:00:00 AM
Project:	MTA Westside Extention, 4953101561/5.2	Matrix:	AIR
Lab ID:	118572-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
-----------------	---------------	------------	-------------	--------------	-----------	----------------------

GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110623A	QC Batch: Z11A028	PrepDate:	Analyst: BB	
Methane	38	10 ppmv	1	6/23/2011 10:42 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 30-Jun-11

CLIENT:	MACTEC	Client Sample ID:	M-119
Lab Order:	118572	Collection Date:	6/22/2011 1:00:00 PM
Project:	MTA Westside Extention, 4953101561/5.2	Matrix:	AIR
Lab ID:	118572-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
-----------------	---------------	------------	-------------	--------------	-----------	----------------------

GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110623A	QC Batch: Z11A028	PrepDate:	Analyst: BB		
Methane	49000	1000	ppmv	100	6/23/2011 11:27 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
Work Order: 118572
Project: MTA Westside Extention, 4953101561/5.2

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A028	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134343						
Client ID: ZZZZZ	Batch ID: Z11A028	TestNo: ASTM D1946		Analysis Date: 6/23/2011	SeqNo: 2195911						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane ND 10

Sample ID: LCS-Z11A028	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134343						
Client ID: ZZZZZ	Batch ID: Z11A028	TestNo: ASTM D1946		Analysis Date: 6/23/2011	SeqNo: 2195912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

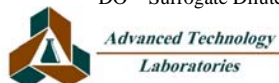
Methane 909.280 10 1000 0 90.9 70 130

Sample ID: LCSD-Z11A028	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134343						
Client ID: ZZZZZ	Batch ID: Z11A028	TestNo: ASTM D1946		Analysis Date: 6/23/2011	SeqNo: 2195913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 968.532 10 1000 0 96.9 70 130 909.3 6.31 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



July 5, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 118572
Lab Number: C062306-01/02

Enclosed are results for sample(s) received 6/23/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com


Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada
Project Name: NA
Project No.: 118572
Date Received: 06/23/11
Matrix: Air
Reporting Units: ppmv

EPA 15/16							
Lab No.:	C062306-01		C062306-02				
Client Sample I.D.:	118572-001B / M-116		118572-002B / M-119				
Date Sampled:	06/22/11		06/22/11				
Date Analyzed:	06/24/11		06/24/11				
QC Batch No.:	110624GC3A1		110624GC3A1				
Analyst Initials:	ZK		ZK				
Dilution Factor:	1.0		1.0				
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv			
Hydrogen Sulfide	ND	0.20	ND	0.20			

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 7-5-11

The cover letter is an integral part of this analytical report




QC Batch No.: 110624GC3A1
 Matrix: Air
 Units: ppmv

Page 3 of 3
 C062306

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank	LCS		LCSD				
Date Analyzed:	06/24/11	06/24/11		06/24/11				
Analyst Initials:	ZK	ZK		ZK				
Datafile:	24jun004	24jun002		24jun003				
Dilution Factor:	1.0	1.0		1.0				
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	98	70-130%	100	70-130%	1.8	<30

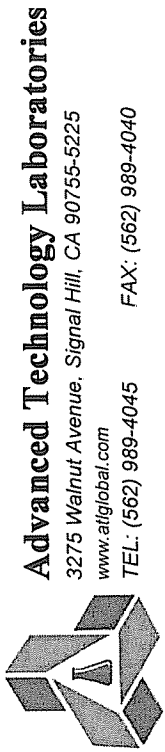
ND = Not Detected (Below RL)
 RL = Reporting Limit

Reviewed/Approved By:  Date: 7-5-11
 Mark J. Johnson
 Operations Manager

The cover letter is an integral part of this analytical report.



CO62306-01/02



CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: A.MARINO

22-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests
118572-001B / M-116	Air	6/22/2011 11:00:00 AM	TEDLAR BAG	1	
118572-002B / M-119	Air	6/22/2011 1:00:00 PM	TEDLAR BAG	1	

- 01
- 02

General Comments: Please email sample receipt acknowledgement to the PM. ^(RM)

Please use PO#: SC06521 Please fax results by: Normal TAT

Please analyze samples for H2S by EPA 1516

Please send report to Rachelle Arada

Date/Time	Received by:	Date/Time	Received by:
6/23/11 11:00	<i>[Signature]</i>	6/22/11 11:26	<i>[Signature]</i>
6/23/11 15:22	<i>[Signature]</i>	6/23/11 15:23	<i>[Signature]</i>

CHAIN OF CUSTODY RECORD



3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____
Quote #: _____
Logged By: [Signature] Date: 6/27/11

NOTE: Please include your Quote No. to ensure proper pricing of your project.

Method of Transport
 Client
 ATL
 FedEx
 OnTrac
 GSO
 Other: _____

Sample Condition Upon Receipt
 1. CHILLED Y N
 2. HEADSPACE (VOA) Y N
 3. CONTAINER INTACT Y N
 4. SEALED Y N
 5. # OF SPLS MATCH COC Y N
 6. PRESERVED Y N

Client: AMEC/MACTEC Engineering & Consulting Inc. Address: 2171 Campus Drive, Suite 100 State: CA City: Irvine Zip Code: 92612 Tel: 949-224-0050 Fax: 949-224-0073
 Attention: Jay Neuhaus
 Project Name: MTA Westside Extension Project #: 4953101561 / 5.2 Sampler: A. MARINO

Relinquished by: [Signature] Date: 6/22/11 Time: 2:00 Received by: [Signature] Date: 6/22/11 Time: 14:00
 Relinquished by: [Signature] Date: 6/22/11 Time: 5:45 Received by: [Signature] Date: 6/22/11 Time: 15:45
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Jay R. Neuhaus/A. Marino Date: 6/22/11
 Send Report To: Attn: Anthony Marino
 Co: MACTEC Engineering & Consulting Inc.
 Addr: 2171 Campus Drive, Suite 100 City: Irvine State: CA Zip: 92612
 Tyler Thurman
 MACTEC Engineering & Consulting Inc.
 5628 E. Slauson Ave. City: Los Angeles State: CA Zip: 90040

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 Sample: \$2.00 / sample /mo (after 45 days)
 Records: \$1 /ATL workorder /mo (after 1 year)

LAB USE ONLY: Batch #:	Sample ID / Location	Date	Time
118577-017	M-116	6/22/11	1100
1 v	M-119	6/22/11	1100

SPECIFY APPROPRIATE MATRIX	CONTAINER(S)		TAT #	Type	PRESERVATION
	Container(s)	TAT #			
FIXED GASES					
HYDROGEN SULFIDE					
METHANE					
AIR					
SEDIMENT					
SOIL					
DRINKING WATER					
GROUND WATER					
WASTEWATER					
STORMWATER					
AQUEOUS					
AIR					

QA/QC
 RTNE Legal
 CT
 SWRCB
 Logcode _____
 OTHER _____
 REMARKS _____

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
TAT: A = Overnight ≤ 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

Figure G-3.7.10

July 05, 2011



Anthony Marino
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 118601

RE: MTA WESTSIDE EXTENSION, 4953101561

Attention: Anthony Marino

Enclosed are the results for sample(s) received on June 23, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: MACTEC
Project: MTA WESTSIDE EXTENSION, 4953101561
Lab Order: 118601

CASE NARRATIVE

The sample for EPA 1516 analysis was subcontracted to Air Technology Lab.

Sample Receiving / General Comments

Sample received beyond holding time for SM4500-H+B (pH) analysis.

The following are the calculated results for Total Sulfide as Hydrogen Sulfide:

Lab ID/Sample ID	Results (mg/L)	PQL (mg/L)
118601-001G/M-116-B	0.028	0.011
118601-002B/M-116-A	0.052	0.011
118601-003B/M-116-B	0.012	0.011
118601-004B/M-115-A	4.25	0.212
118601-005B/M-115-B	17	0.85

Analytical Comments for EPA 8270C

Sample 118601-001D, surrogate recovery biased low possibly due to matrix interferences.

Analytical Comments for SM4500-S=D

Samples 118601-001G-MS and 118601-001G-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627A	QC Batch: Q11VW118	PrepDate:	Analyst: SLL
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,1,1-Trichloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,1,2-Trichloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,1-Dichloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,1-Dichloroethene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,1-Dichloropropene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2,3-Trichlorobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2,3-Trichloropropane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2,4-Trichlorobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2,4-Trimethylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2-Dibromoethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2-Dichlorobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2-Dichloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,2-Dichloropropane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,3,5-Trimethylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,3-Dichlorobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,3-Dichloropropane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
1,4-Dichlorobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
2,2-Dichloropropane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
2-Chlorotoluene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
4-Chlorotoluene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
4-Isopropyltoluene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Benzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Bromobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Bromodichloromethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Bromoform	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Bromomethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Carbon tetrachloride	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Chlorobenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Chloroethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Chloroform	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Chloromethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
cis-1,2-Dichloroethene	ND	0.50	µg/L 1 6/27/2011 04:38 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627A	QC Batch: Q11VW118	PrepDate:	Analyst: SLL
cis-1,3-Dichloropropene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Dibromochloromethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Dibromomethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Dichlorodifluoromethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Ethylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Hexachlorobutadiene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Isopropylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
m,p-Xylene	ND	1.0	µg/L 1 6/27/2011 04:38 PM
Methylene chloride	ND	1.0	µg/L 1 6/27/2011 04:38 PM
n-Butylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
n-Propylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Naphthalene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
o-Xylene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
sec-Butylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Styrene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
tert-Butylbenzene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Tetrachloroethene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Toluene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
trans-1,2-Dichloroethene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Trichloroethene	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Trichlorofluoromethane	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Vinyl chloride	ND	0.50	µg/L 1 6/27/2011 04:38 PM
Hexane	ND	1.0	µg/L 1 6/27/2011 04:38 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC 1 6/27/2011 04:38 PM
Surr: 4-Bromofluorobenzene	89.4	70-130	%REC 1 6/27/2011 04:38 PM
Surr: Dibromofluoromethane	101	70-130	%REC 1 6/27/2011 04:38 PM
Surr: Toluene-d8	88.8	70-130	%REC 1 6/27/2011 04:38 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC19_110627A	QC Batch: M11VW128	PrepDate:	Analyst: TP		
GRO	0.16	0.050	mg/L	1	6/27/2011 11:51 PM
Surr: Bromofluorobenzene (FID)	94.2	70-130	%REC	1	6/27/2011 11:51 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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 Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001C	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3510C		EPA 8015B(M)				
RunID: GC16_110628A	QC Batch: 73912			PrepDate: 6/27/2011	Analyst: CBR	
DRO	ND	0.050		mg/L	1	6/28/2011 09:58 AM
ORO	ND	0.050		mg/L	1	6/28/2011 09:58 AM
Surr: p-Terphenyl	85.9	36-126		%REC	1	6/28/2011 09:58 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001D	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C

EPA 8270C

RunID: MS 13_110624A	QC Batch: 73864			PrepDate: 6/24/2011	Analyst: JSD
1,2,4-Trichlorobenzene	ND	10		µg/L	1 6/24/2011 06:56 PM
1,2-Dichlorobenzene	ND	10		µg/L	1 6/24/2011 06:56 PM
1,3-Dichlorobenzene	ND	10		µg/L	1 6/24/2011 06:56 PM
1,4-Dichlorobenzene	ND	10		µg/L	1 6/24/2011 06:56 PM
1,4-Dioxane	ND	10		µg/L	1 6/24/2011 06:56 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1 6/24/2011 06:56 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1 6/24/2011 06:56 PM
2,4-Dichlorophenol	ND	10		µg/L	1 6/24/2011 06:56 PM
2,4-Dimethylphenol	ND	10		µg/L	1 6/24/2011 06:56 PM
2,4-Dinitrophenol	ND	50		µg/L	1 6/24/2011 06:56 PM
2,4-Dinitrotoluene	ND	10		µg/L	1 6/24/2011 06:56 PM
2,6-Dinitrotoluene	ND	10		µg/L	1 6/24/2011 06:56 PM
2-Chloronaphthalene	ND	10		µg/L	1 6/24/2011 06:56 PM
2-Chlorophenol	ND	10		µg/L	1 6/24/2011 06:56 PM
2-Methylnaphthalene	ND	10		µg/L	1 6/24/2011 06:56 PM
2-Methylphenol	ND	10		µg/L	1 6/24/2011 06:56 PM
2-Nitroaniline	ND	50		µg/L	1 6/24/2011 06:56 PM
2-Nitrophenol	ND	10		µg/L	1 6/24/2011 06:56 PM
3,3'-Dichlorobenzidine	ND	20		µg/L	1 6/24/2011 06:56 PM
3-Nitroaniline	ND	50		µg/L	1 6/24/2011 06:56 PM
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1 6/24/2011 06:56 PM
4-Bromophenyl-phenylether	ND	10		µg/L	1 6/24/2011 06:56 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1 6/24/2011 06:56 PM
4-Chloroaniline	ND	20		µg/L	1 6/24/2011 06:56 PM
4-Chlorophenyl-phenylether	ND	10		µg/L	1 6/24/2011 06:56 PM
4-Methylphenol	ND	10		µg/L	1 6/24/2011 06:56 PM
4-Nitroaniline	ND	20		µg/L	1 6/24/2011 06:56 PM
4-Nitrophenol	ND	50		µg/L	1 6/24/2011 06:56 PM
Acenaphthene	ND	10		µg/L	1 6/24/2011 06:56 PM
Acenaphthylene	ND	10		µg/L	1 6/24/2011 06:56 PM
Anthracene	ND	10		µg/L	1 6/24/2011 06:56 PM
Benzidine (M)	ND	50		µg/L	1 6/24/2011 06:56 PM
Benzo(a)anthracene	ND	10		µg/L	1 6/24/2011 06:56 PM
Benzo(a)pyrene	ND	10		µg/L	1 6/24/2011 06:56 PM
Benzo(b)fluoranthene	ND	10		µg/L	1 6/24/2011 06:56 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT: MACTEC **Client Sample ID:** M-116-B
Lab Order: 118601 **Collection Date:** 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156 **Matrix:** GROUNDWATER
Lab ID: 118601-001D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3510C			EPA 8270C			
RunID: MS 13_110624A	QC Batch: 73864			PrepDate: 6/24/2011		Analyst: JSD
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/24/2011 06:56 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/24/2011 06:56 PM
Benzoic acid	ND	50		µg/L	1	6/24/2011 06:56 PM
Benzyl alcohol	ND	20		µg/L	1	6/24/2011 06:56 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/24/2011 06:56 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/24/2011 06:56 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/24/2011 06:56 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/24/2011 06:56 PM
Butylbenzylphthalate	ND	10		µg/L	1	6/24/2011 06:56 PM
Chrysene	ND	10		µg/L	1	6/24/2011 06:56 PM
Di-n-butylphthalate	ND	10		µg/L	1	6/24/2011 06:56 PM
Di-n-octylphthalate	ND	10		µg/L	1	6/24/2011 06:56 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/24/2011 06:56 PM
Dibenzofuran	ND	10		µg/L	1	6/24/2011 06:56 PM
Diethylphthalate	ND	10		µg/L	1	6/24/2011 06:56 PM
Dimethylphthalate	ND	10		µg/L	1	6/24/2011 06:56 PM
Fluoranthene	ND	10		µg/L	1	6/24/2011 06:56 PM
Fluorene	ND	10		µg/L	1	6/24/2011 06:56 PM
Hexachlorobenzene	ND	10		µg/L	1	6/24/2011 06:56 PM
Hexachlorobutadiene	ND	20		µg/L	1	6/24/2011 06:56 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/24/2011 06:56 PM
Hexachloroethane	ND	10		µg/L	1	6/24/2011 06:56 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/24/2011 06:56 PM
Isophorone	ND	10		µg/L	1	6/24/2011 06:56 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/24/2011 06:56 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/24/2011 06:56 PM
Naphthalene	ND	10		µg/L	1	6/24/2011 06:56 PM
Nitrobenzene	ND	10		µg/L	1	6/24/2011 06:56 PM
Pentachlorophenol	ND	50		µg/L	1	6/24/2011 06:56 PM
Phenanthrene	ND	10		µg/L	1	6/24/2011 06:56 PM
Phenol	ND	10		µg/L	1	6/24/2011 06:56 PM
Pyrene	ND	10		µg/L	1	6/24/2011 06:56 PM
Surr: 1,2-Dichlorobenzene-d4	42.6	46-97	S	%REC	1	6/24/2011 06:56 PM
Surr: 2,4,6-Tribromophenol	52.9	59-124	S	%REC	1	6/24/2011 06:56 PM
Surr: 2-Chlorophenol-d4	41.5	49-93	S	%REC	1	6/24/2011 06:56 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001D	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

	EPA 3510C	EPA 8270C				
RunID: MS 13_110624A	QC Batch: 73864			PrepDate:	6/24/2011	Analyst: JSD
Surr: 2-Fluorobiphenyl	49.4	57-107	S	%REC	1	6/24/2011 06:56 PM
Surr: 2-Fluorophenol	25.9	27-60	S	%REC	1	6/24/2011 06:56 PM
Surr: 4-Terphenyl-d14	96.5	69-132		%REC	1	6/24/2011 06:56 PM
Surr: Nitrobenzene-d5	50.2	52-107	S	%REC	1	6/24/2011 06:56 PM
Surr: Phenol-d5	20.1	15-50		%REC	1	6/24/2011 06:56 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001E	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3010A

EPA 6010B

RunID: ICP8_110629C	QC Batch: 73952			PrepDate: 6/29/2011		Analyst: CBB
Antimony	ND	0.0050		mg/L	1	6/29/2011 03:42 PM
Arsenic	ND	0.010		mg/L	1	6/29/2011 03:42 PM
Barium	0.058	0.0030		mg/L	1	6/29/2011 03:42 PM
Beryllium	ND	0.0030		mg/L	1	6/29/2011 03:42 PM
Cadmium	ND	0.0030		mg/L	1	6/29/2011 03:42 PM
Chromium	ND	0.0030		mg/L	1	6/29/2011 03:42 PM
Cobalt	ND	0.0030		mg/L	1	6/29/2011 03:42 PM
Copper	ND	0.0050		mg/L	1	6/29/2011 03:42 PM
Lead	ND	0.0050		mg/L	1	6/29/2011 03:42 PM
Molybdenum	0.010	0.0050		mg/L	1	6/29/2011 03:42 PM
Nickel	ND	0.0050		mg/L	1	6/29/2011 03:42 PM
Selenium	ND	0.010		mg/L	1	6/29/2011 03:42 PM
Silver	ND	0.0030		mg/L	1	6/29/2011 03:42 PM
Thallium	ND	0.015		mg/L	1	6/29/2011 03:42 PM
Vanadium	ND	0.0030		mg/L	1	6/29/2011 03:42 PM
Zinc	0.016	0.010		mg/L	1	6/29/2011 03:42 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7470A

RunID: AA5_110629A	QC Batch: 73951			PrepDate: 6/29/2011		Analyst: VV
Mercury	ND	0.20		µg/L	1	6/29/2011 01:01 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT:	MACTEC	Client Sample ID:	M-116-B
Lab Order:	118601	Collection Date:	6/23/2011 12:00:00 PM
Project:	MTA WESTSIDE EXTENSION, 495310156	Matrix:	GROUNDWATER
Lab ID:	118601-001F		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB
Methane	3.0	1.0	ug/L
			1
			6/28/2011 02:35 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001G	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG
Sulfide	0.026	0.010	mg/L
			1
			6/29/2011

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001H	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3510C

EPA 8081A

RunID: GC10_110628A	QC Batch: 73943	PrepDate: 6/28/2011	Analyst: HL		
4,4'-DDD	ND	0.050	µg/L	1	6/28/2011 07:33 PM
4,4'-DDE	ND	0.050	µg/L	1	6/28/2011 07:33 PM
4,4'-DDT	ND	0.050	µg/L	1	6/28/2011 07:33 PM
Aldrin	ND	0.025	µg/L	1	6/28/2011 07:33 PM
alpha-BHC	ND	0.025	µg/L	1	6/28/2011 07:33 PM
alpha-Chlordane	ND	0.025	µg/L	1	6/28/2011 07:33 PM
beta-BHC	ND	0.025	µg/L	1	6/28/2011 07:33 PM
Chlordane	ND	0.25	µg/L	1	6/28/2011 07:33 PM
delta-BHC	ND	0.025	µg/L	1	6/28/2011 07:33 PM
Dieldrin	ND	0.050	µg/L	1	6/28/2011 07:33 PM
Endosulfan I	ND	0.025	µg/L	1	6/28/2011 07:33 PM
Endosulfan II	ND	0.050	µg/L	1	6/28/2011 07:33 PM
Endosulfan sulfate	ND	0.050	µg/L	1	6/28/2011 07:33 PM
Endrin	ND	0.050	µg/L	1	6/28/2011 07:33 PM
Endrin aldehyde	ND	0.050	µg/L	1	6/28/2011 07:33 PM
Endrin ketone	ND	0.050	µg/L	1	6/28/2011 07:33 PM
gamma-BHC	ND	0.025	µg/L	1	6/28/2011 07:33 PM
gamma-Chlordane	ND	0.025	µg/L	1	6/28/2011 07:33 PM
Heptachlor	ND	0.025	µg/L	1	6/28/2011 07:33 PM
Heptachlor epoxide	ND	0.025	µg/L	1	6/28/2011 07:33 PM
Methoxychlor	ND	0.25	µg/L	1	6/28/2011 07:33 PM
Toxaphene	ND	2.5	µg/L	1	6/28/2011 07:33 PM
Surr: Decachlorobiphenyl	97.2	36-102	%REC	1	6/28/2011 07:33 PM
Surr: Tetrachloro-m-xylene	85.5	48-108	%REC	1	6/28/2011 07:33 PM

PCBS BY GC/ECD

EPA 3510C

EPA 8082

RunID: GC4_110628B	QC Batch: 73943	PrepDate: 6/28/2011	Analyst: BB		
Aroclor 1016	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Aroclor 1221	ND	1.0	µg/L	1	6/29/2011 08:36 AM
Aroclor 1232	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Aroclor 1242	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Aroclor 1248	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Aroclor 1254	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Aroclor 1260	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Aroclor 1262	ND	0.50	µg/L	1	6/29/2011 08:36 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001H	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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PCBS BY GC/ECD

	EPA 3510C		EPA 8082		
RunID: GC4_110628B	QC Batch: 73943		PrepDate: 6/28/2011		Analyst: BB
Aroclor 1268	ND	0.50	µg/L	1	6/29/2011 08:36 AM
Surr: Decachlorobiphenyl	89.7	26-132	%REC	1	6/29/2011 08:36 AM
Surr: Tetrachloro-m-xylene	82.7	43-119	%REC	1	6/29/2011 08:36 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001I	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
OIL & GREASE						
EPA 1664 _HEM						
RunID: WETCHEM2_110624A	QC Batch: 73862				PrepDate: 6/24/2011	Analyst: AAG
Oil & Grease	ND	4.5		mg/L	1	6/24/2011
TOTAL PETROLEUM HYDROCARBONS						
EPA 1664_SGT/HEM						
RunID: WETCHEM2_110627A	QC Batch: 73893				PrepDate: 6/27/2011	Analyst: AAG
Total Petroleum Hydrocarbons	ND	2.0		mg/L	1	6/27/2011

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001J	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: IC3_110624A	QC Batch: R134409	PrepDate:	Analyst: PT
Chloride	89	10	mg/L
		20	6/24/2011 11:28 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: IC3_110624A	QC Batch: R134409	PrepDate:	Analyst: PT
Nitrogen, Nitrate (As N)	ND	0.10	mg/L
		1	6/24/2011 10:16 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: IC3_110624A	QC Batch: R134409	PrepDate:	Analyst: PT
Sulfate	250	20	mg/L
		20	6/24/2011 11:28 AM

PH

SM4500-H+B

RunID: PH4_110623A	QC Batch: R134404	PrepDate:	Analyst: FD
pH	7.2	0.10	H pH Units
		1	6/23/2011

TOTAL FILTERABLE RESIDUE

SM2540C

RunID: WETCHEM_110628D	QC Batch: 74008	PrepDate:	6/28/2011	Analyst: PT
Total Dissolved Solids (Residue, Filterable)	1200	11	mg/L	1
				6/28/2011

TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: WETCHEM_110628A	QC Batch: 73931	PrepDate:	6/28/2011	Analyst: PT
Suspended Solids (Residue, Non-Filterable)	190	10	mg/L	1
				6/28/2011 08:12 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116A
Lab Order: 118601	Collection Date: 6/23/2011 12:15:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-002A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030			PrepDate:		Analyst: BB
Carbon dioxide	1300	200		ug/L	1	6/28/2011 03:01 PM
Ethane	ND	2.0		ug/L	1	6/28/2011 03:01 PM
Ethylene	ND	3.0		ug/L	1	6/28/2011 03:01 PM
Methane	3.7	1.0		ug/L	1	6/28/2011 03:01 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116A
Lab Order: 118601	Collection Date: 6/23/2011 12:15:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-002B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG
Sulfide	0.049	0.010 mg/L	1
			6/29/2011

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:30:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-003A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB
Carbon dioxide	12000	2000	ug/L 10
Ethane	ND	2.0	ug/L 1
Ethylene	ND	3.0	ug/L 1
Methane	8.7	1.0	ug/L 1

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT:	MACTEC	Client Sample ID:	M-116-B
Lab Order:	118601	Collection Date:	6/23/2011 12:30:00 PM
Project:	MTA WESTSIDE EXTENSION, 495310156	Matrix:	GROUNDWATER
Lab ID:	118601-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG
Sulfide	0.011	0.010	mg/L
			1
			6/29/2011

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-115-A
Lab Order: 118601	Collection Date: 6/23/2011 9:45:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-004A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB
Carbon dioxide	14000	10000	ug/L 50 6/28/2011 04:09 PM
Ethane	150	2.0	ug/L 1 6/28/2011 03:55 PM
Ethylene	ND	3.0	ug/L 1 6/28/2011 03:55 PM
Methane	4500	50	ug/L 50 6/28/2011 04:09 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-115-A
Lab Order: 118601	Collection Date: 6/23/2011 9:45:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-004B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SULFIDE, TOTAL						
SM4500-S= D						
RunID: WETCHEM3_110629A	QC Batch: R134500				PrepDate:	Analyst: AAG
Sulfide	4.0	0.20		mg/L	20	6/29/2011

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-115-B
Lab Order: 118601	Collection Date: 6/23/2011 10:10:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-005A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB
Carbon dioxide	8000	4000	ug/L 20 6/28/2011 04:37 PM
Ethane	58	2.0	ug/L 1 6/28/2011 04:24 PM
Ethylene	ND	3.0	ug/L 1 6/28/2011 04:24 PM
Methane	4200	20	ug/L 20 6/28/2011 04:37 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT:	MACTEC	Client Sample ID:	M-115-B
Lab Order:	118601	Collection Date:	6/23/2011 10:10:00 AM
Project:	MTA WESTSIDE EXTENSION, 495310156	Matrix:	GROUNDWATER
Lab ID:	118601-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG
Sulfide	16	0.80	mg/L
		80	6/29/2011

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-119-RED 15'
Lab Order: 118601	Collection Date: 6/23/2011 11:30:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: VAPOR
Lab ID: 118601-006A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110624A	QC Batch: Z11A029	PrepDate:	Analyst: BB	
Methane	13	10 ppmv	1	6/24/2011 02:25 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
 Work Order: 118601
 Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: 118595-003B	SampType: DUP	TestCode: 150.1_4500H+	Units: pH Units	Prep Date:	RunNo: 134404						
Client ID: ZZZZZZ	Batch ID: R134404	TestNo: SM4500-H+B		Analysis Date: 6/23/2011	SeqNo: 2196898						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.000	0.10						8.000	0	10	H

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

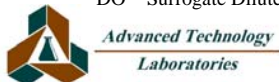
Sample ID: 118646-001A-DUP	SampType: DUP	TestCode: 160.1_2540C_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134574						
Client ID: ZZZZZZ	Batch ID: 74008	TestNo: SM2540C	Analysis Date: 6/28/2011	SeqNo: 2200333							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	40966.667	330						40870	0.244	10	

Sample ID: LCS-74008	SampType: LCS	TestCode: 160.1_2540C_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134574						
Client ID: LCSW	Batch ID: 74008	TestNo: SM2540C	Analysis Date: 6/28/2011	SeqNo: 2200334							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	987.000	10	970.0	0	102	80	120				

Sample ID: MB-74008	SampType: MBLK	TestCode: 160.1_2540C_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134574						
Client ID: PBW	Batch ID: 74008	TestNo: SM2540C	Analysis Date: 6/28/2011	SeqNo: 2200336							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

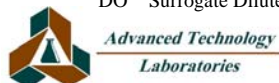
Sample ID: 118625-001B-DUP	SampType: DUP	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134472						
Client ID: ZZZZZZ	Batch ID: 73931	TestNo: SM2540D	Analysis Date: 6/28/2011	SeqNo: 2198521							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	ND	10						0	0	10	

Sample ID: LCS-73931	SampType: LCS	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134472						
Client ID: LCSW	Batch ID: 73931	TestNo: SM2540D	Analysis Date: 6/28/2011	SeqNo: 2198523							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	96.000	10	96.60	0	99.4	80	120				

Sample ID: MB-73931	SampType: MBLK	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134472						
Client ID: PBW	Batch ID: 73931	TestNo: SM2540D	Analysis Date: 6/28/2011	SeqNo: 2198524							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: MB-73862	SampType: MBLK	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: PBW	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	ND	4.0
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Sample ID: LCS-73862	SampType: LCS	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: LCSW	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	35.700	4.0	40.00	0	89.2	78	114
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Sample ID: MB-73862-MS	SampType: MS	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: ZZZZZ	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

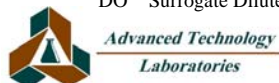
Oil & Grease	36.700	4.0	40.00	0	91.8	78	114
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Sample ID: MB-73862-MSD	SampType: MSD	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: ZZZZZ	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	36.800	4.0	40.00	0	92.0	78	114	36.70	0.272	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_SGT/HEM_W

Sample ID: LCS-R134419	SampType: LCS	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: LCSW	Batch ID: 73893	TestNo: EPA 1664_SG		Analysis Date: 6/27/2011	SeqNo: 2197335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	19.400	2.0	20.00	0	97.0	78	114				
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Sample ID: MB-R134419	SampType: MBLK	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: PBW	Batch ID: 73893	TestNo: EPA 1664_SG		Analysis Date: 6/27/2011	SeqNo: 2197336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	ND	2.0									
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Sample ID: MBLK-R134419MS	SampType: MS	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: ZZZZZ	Batch ID: 73893	TestNo: EPA 1664_SG		Analysis Date: 6/27/2011	SeqNo: 2197337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

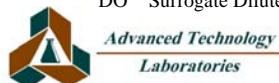
Total Petroleum Hydrocarbons	18.000	2.0	20.00	0	90.0	78	114				
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Sample ID: MBLK-R134419MSD	SampType: MSD	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: ZZZZZ	Batch ID: 73893	TestNo: EPA 1664_SG		Analysis Date: 6/27/2011	SeqNo: 2197338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	18.500	2.0	20.00	0	92.5	78	114	18.00	2.74	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CL

Sample ID: MB-R134409	SampType: MBLK	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: PBW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197077						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride ND 0.50

Sample ID: LCS-R134409	SampType: LCS	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: LCSW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 0.981 0.50 1.000 0 98.1 90 110

Sample ID: 118601-001J-DUP	SampType: DUP	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 89.576 10 89.44 0.150 20

Sample ID: 118601-001J-MS	SampType: MS	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

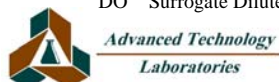
Chloride 138.418 10 50.00 89.44 98.0 80 120

Sample ID: 118601-001J-MSD	SampType: MSD	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 139.722 10 50.00 89.44 101 80 120 138.4 0.938 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: MB-R134409	SampType: MBLK	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: PBW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197086						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	ND	0.10									
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Sample ID: LCS-R134409	SampType: LCS	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: LCSW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	0.935	0.10	1.000	0	93.5	90	110				
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Sample ID: 118601-001J-DUP	SampType: DUP	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	ND	2.0						0	0	20	
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Sample ID: 118601-001J-MS	SampType: MS	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

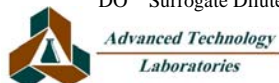
Nitrogen, Nitrate (As N)	52.400	2.0	50.00	0	105	80	120				
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Sample ID: 118601-001J-MSD	SampType: MSD	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	52.504	2.0	50.00	0	105	80	120	52.40	0.198	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: MB-R134409	SampType: MBLK	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: PBW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	1.0									
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Sample ID: LCS-R134409	SampType: LCS	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: LCSW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	2.022	1.0	2.000	0	101	90	110				
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Sample ID: 118601-001J-DUP	SampType: DUP	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	241.366	20						246.6	2.15	20	
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Sample ID: 118601-001J-MS	SampType: MS	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

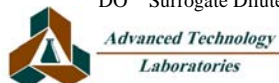
Sulfate	347.702	20	100.0	246.6	101	80	120				
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Sample ID: 118601-001J-MSD	SampType: MSD	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	352.426	20	100.0	246.6	106	80	120	347.7	1.35	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 376.2_4500S2_WT

Sample ID: 118601-001G-MS	SampType: MS	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: M-116-B	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199255							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.035	0.010	0.1000	0.02600	8.70	70	120				S

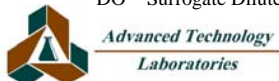
Sample ID: 118601-001G-MSD	SampType: MSD	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: M-116-B	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199256							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.036	0.010	0.1000	0.02600	9.70	70	120	0.03470	2.84	20	S

Sample ID: LCS-R134500	SampType: LCS	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: LCSW	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199259							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.101	0.010	0.1000	0	101	80	120				

Sample ID: MB-R134500	SampType: MBLK	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: PBW	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199260							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	ND	0.010									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

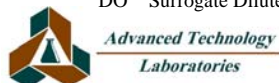
TestCode: 6010_W

Sample ID: LCS-73952		SampType: LCS		TestCode: 6010_W		Units: mg/L		Prep Date: 6/29/2011		RunNo: 134533	
Client ID: LCSW		Batch ID: 73952		TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011				SeqNo: 2199617	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.967	0.0050	1.000	0	96.7	85	115				
Arsenic	0.972	0.010	1.000	0	97.2	85	115				
Barium	0.964	0.0030	1.000	0	96.4	85	115				
Beryllium	0.941	0.0030	1.000	0	94.1	85	115				
Cadmium	0.973	0.0030	1.000	0	97.3	85	115				
Chromium	0.875	0.0030	1.000	0	87.5	85	115				
Cobalt	0.980	0.0030	1.000	0	98.0	85	115				
Copper	0.949	0.0050	1.000	0	94.9	85	115				
Lead	0.954	0.0050	1.000	0	95.4	85	115				
Molybdenum	0.966	0.0050	1.000	0.0004605	96.6	85	115				
Nickel	0.933	0.0050	1.000	0	93.3	85	115				
Selenium	0.946	0.010	1.000	0	94.6	85	115				
Silver	0.960	0.0030	1.000	0	96.0	85	115				
Thallium	0.921	0.015	1.000	0	92.1	85	115				
Vanadium	0.946	0.0030	1.000	0	94.6	85	115				
Zinc	1.000	0.010	1.000	0.005727	99.4	85	115				

Sample ID: MB-73952		SampType: MBLK		TestCode: 6010_W		Units: mg/L		Prep Date: 6/29/2011		RunNo: 134533	
Client ID: PBW		Batch ID: 73952		TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011				SeqNo: 2199619	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.0050									
Arsenic	ND	0.010									
Barium	ND	0.0030									
Beryllium	ND	0.0030									
Cadmium	ND	0.0030									
Chromium	ND	0.0030									
Cobalt	ND	0.0030									
Copper	ND	0.0050									
Lead	ND	0.0050									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
 Work Order: 118601
 Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

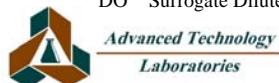
TestCode: 6010_W

Sample ID: MB-73952	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 6/29/2011	RunNo: 134533						
Client ID: PBW	Batch ID: 73952	TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011	SeqNo: 2199619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	0.000461	0.0050									
Nickel	ND	0.0050									
Selenium	ND	0.010									
Silver	ND	0.0030									
Thallium	ND	0.015									
Vanadium	ND	0.0030									
Zinc	0.006	0.010									

Sample ID: 118601-001E-MS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/29/2011	RunNo: 134533						
Client ID: M-116-B	Batch ID: 73952	TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011	SeqNo: 2199620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.673	0.0050	2.500	0	107	73	128				
Arsenic	2.721	0.010	2.500	0	109	79	121				
Barium	2.610	0.0030	2.500	0.05811	102	82	118				
Beryllium	2.587	0.0030	2.500	0	103	84	119				
Cadmium	2.551	0.0030	2.500	0	102	79	117				
Chromium	2.374	0.0030	2.500	0.001567	94.9	78	115				
Cobalt	2.527	0.0030	2.500	0	101	80	118				
Copper	2.588	0.0050	2.500	0.001399	103	81	127				
Lead	2.506	0.0050	2.500	0	100	80	118				
Molybdenum	2.581	0.0050	2.500	0.01013	103	81	118				
Nickel	2.420	0.0050	2.500	0.002580	96.7	78	120				
Selenium	2.644	0.010	2.500	0	106	78	120				
Silver	2.678	0.0030	2.500	0	107	79	125				
Thallium	2.464	0.015	2.500	0	98.5	74	115				
Vanadium	2.591	0.0030	2.500	0	104	84	119				
Zinc	2.618	0.010	2.500	0.01624	104	75	122				

Qualifiers:

- | | | |
|---|--|--|
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| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

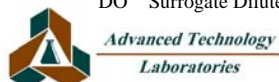
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_W

Sample ID: 118601-001E-MSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 6/29/2011	RunNo: 134533						
Client ID: M-116-B	Batch ID: 73952	TestNo: EPA 6010B	EPA 3010A	Analysis Date: 6/29/2011	SeqNo: 2199621						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.725	0.0050	2.500	0	109	73	128	2.673	1.93	20	
Arsenic	2.758	0.010	2.500	0	110	79	121	2.721	1.34	20	
Barium	2.663	0.0030	2.500	0.05811	104	82	118	2.610	2.04	20	
Beryllium	2.600	0.0030	2.500	0	104	84	119	2.587	0.497	20	
Cadmium	2.590	0.0030	2.500	0	104	79	117	2.551	1.51	20	
Chromium	2.412	0.0030	2.500	0.001567	96.4	78	115	2.374	1.57	20	
Cobalt	2.573	0.0030	2.500	0	103	80	118	2.527	1.79	20	
Copper	2.645	0.0050	2.500	0.001399	106	81	127	2.588	2.18	20	
Lead	2.528	0.0050	2.500	0	101	80	118	2.506	0.848	20	
Molybdenum	2.637	0.0050	2.500	0.01013	105	81	118	2.581	2.11	20	
Nickel	2.452	0.0050	2.500	0.002580	98.0	78	120	2.420	1.31	20	
Selenium	2.687	0.010	2.500	0	107	78	120	2.644	1.58	20	
Silver	2.737	0.0030	2.500	0	109	79	125	2.678	2.18	20	
Thallium	2.504	0.015	2.500	0	100	74	115	2.464	1.63	20	
Vanadium	2.650	0.0030	2.500	0	106	84	119	2.591	2.24	20	
Zinc	2.638	0.010	2.500	0.01624	105	75	122	2.618	0.744	20	

Qualifiers:

- | | | |
|---|--|--|
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 7470_W

Sample ID: MB-73951	SampType: MBLK	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: PBW	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.20

Sample ID: LCS-73951	SampType: LCS	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: LCSW	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199291						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 10.235 0.20 10.00 0 102 85 115

Sample ID: 118601-001E-MS	SampType: MS	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: M-116-B	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199292						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

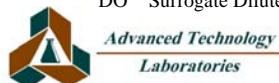
Mercury 11.148 0.20 10.00 0 111 70 130

Sample ID: 118601-001E-MSD	SampType: MSD	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: M-116-B	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199293						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 11.179 0.20 10.00 0 112 70 130 11.15 0.281 20

Qualifiers:

- | | | |
|---|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM_LL

Sample ID: MB-73912	SampType: MBLK	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: PBW	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198358							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	0.050									
ORO	ND	0.050									
Surr: p-Terphenyl	0.050		0.08000		62.4	36	126				

Sample ID: LCS-73912	SampType: LCS	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: LCSW	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198359							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.630	0.050	1.000	0	63.0	52	128				
Surr: p-Terphenyl	0.063		0.08000		79.2	36	126				

Sample ID: MB-73912MS	SampType: MS	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: ZZZZZ	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198360							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

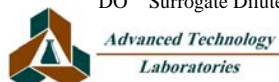
DRO	0.663	0.050	1.000	0	66.3	52	128				
Surr: p-Terphenyl	0.060		0.08000		75.4	36	126				

Sample ID: MB-73912MSD	SampType: MSD	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: ZZZZZ	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198361							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.693	0.050	1.000	0	69.3	52	128	0.6628	4.50	20	
Surr: p-Terphenyl	0.064		0.08000		79.7	36	126		0	0	

Qualifiers:

- | | | |
|---|--|--|
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Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: M110627LCS2	SampType: LCS	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: LCSW	Batch ID: M11VW128	TestNo: EPA 8015B(M)		Analysis Date: 6/27/2011	SeqNo: 2199409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	0.866	0.050	1.000	0	86.6	70	130				
Surr: Bromofluorobenzene (FID)	97.001		100.0		97.0	70	130				

Sample ID: M110627MB1MS	SampType: MS	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: ZZZZZ	Batch ID: M11VW128	TestNo: EPA 8015B(M)		Analysis Date: 6/27/2011	SeqNo: 2199410						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	0.919	0.050	1.000	0	91.9	70	130				
Surr: Bromofluorobenzene (FID)	97.814		100.0		97.8	70	130				

Sample ID: M110627MB1MSD	SampType: MSD	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: ZZZZZ	Batch ID: M11VW128	TestNo: EPA 8015B(M)		Analysis Date: 6/27/2011	SeqNo: 2199411						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

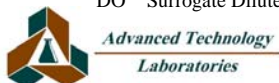
GRO	0.882	0.050	1.000	0	88.2	70	130	0.9190	4.11	20	
Surr: Bromofluorobenzene (FID)	96.439		100.0		96.4	70	130		0	0	

Sample ID: M110627MB1	SampType: MBLK	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: PBW	Batch ID: M11VW128	TestNo: EPA 8015B(M)		Analysis Date: 6/27/2011	SeqNo: 2199412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	93.849		100.0		93.8	70	130				

Qualifiers:

- | | | |
|---|--|--|
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ANALYTICAL QC SUMMARY REPORT

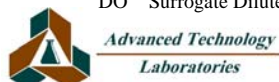
TestCode: 8081_W

Sample ID: MB-73943	SampType: MBLK	TestCode: 8081_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134493						
Client ID: PBW	Batch ID: 73943	TestNo: EPA 8081A	EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.050									
4,4'-DDE	ND	0.050									
4,4'-DDT	ND	0.050									
Aldrin	ND	0.025									
alpha-BHC	ND	0.025									
alpha-Chlordane	ND	0.025									
beta-BHC	ND	0.025									
Chlordane	ND	0.25									
delta-BHC	ND	0.025									
Dieldrin	ND	0.050									
Endosulfan I	ND	0.025									
Endosulfan II	ND	0.050									
Endosulfan sulfate	ND	0.050									
Endrin	ND	0.050									
Endrin aldehyde	ND	0.050									
Endrin ketone	ND	0.050									
gamma-BHC	ND	0.025									
gamma-Chlordane	ND	0.025									
Heptachlor	ND	0.025									
Heptachlor epoxide	ND	0.025									
Methoxychlor	ND	0.25									
Toxaphene	ND	2.5									
Surr: Tetrachloro-m-xylene	0.404		0.5000		80.8	48	108				
Surr: Decachlorobiphenyl	0.430		0.5000		86.0	36	102				

Sample ID: LCS-73943	SampType: LCS	TestCode: 8081_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134493						
Client ID: LCSW	Batch ID: 73943	TestNo: EPA 8081A	EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	0.406	0.025	0.5000	0	81.2	59	108				

Qualifiers:

- | | | |
|---|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

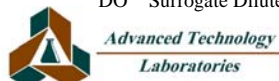
Sample ID: LCS-73943		SampType: LCS		TestCode: 8081_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134493		
Client ID: LCSW		Batch ID: 73943		TestNo: EPA 8081A		EPA 3510C		Analysis Date: 6/28/2011		SeqNo: 2198856		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Dieldrin	0.424	0.050	0.5000	0	84.8	54	117					
Endrin	0.445	0.050	0.5000	0	89.0	50	122					
gamma-BHC	0.410	0.025	0.5000	0	82.0	60	112					
Heptachlor	0.409	0.025	0.5000	0	81.7	54	124					
Surr: Tetrachloro-m-xylene	0.408		0.5000		81.5	48	108					
Surr: Decachlorobiphenyl	0.433		0.5000		86.6	36	102					

Sample ID: MB-73943MS		SampType: MS		TestCode: 8081_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134493		
Client ID: ZZZZZ		Batch ID: 73943		TestNo: EPA 8081A		EPA 3510C		Analysis Date: 6/28/2011		SeqNo: 2198857		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
4,4'-DDT	0.430	0.050	0.5000	0	85.9	41	135					
Aldrin	0.410	0.025	0.5000	0	82.1	59	108					
Dieldrin	0.425	0.050	0.5000	0	85.0	54	117					
Endrin	0.447	0.050	0.5000	0	89.4	50	122					
gamma-BHC	0.413	0.025	0.5000	0	82.7	60	112					
Heptachlor	0.412	0.025	0.5000	0	82.4	54	124					
Surr: Tetrachloro-m-xylene	0.410		0.5000		82.0	48	108					
Surr: Decachlorobiphenyl	0.436		0.5000		87.1	36	102					

Sample ID: MB-73943MSD		SampType: MSD		TestCode: 8081_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134493		
Client ID: ZZZZZ		Batch ID: 73943		TestNo: EPA 8081A		EPA 3510C		Analysis Date: 6/28/2011		SeqNo: 2198858		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
4,4'-DDT	0.425	0.050	0.5000	0	85.0	41	135	0.4296	1.04	20		
Aldrin	0.407	0.025	0.5000	0	81.3	59	108	0.4103	0.874	20		
Dieldrin	0.421	0.050	0.5000	0	84.2	54	117	0.4252	0.962	20		
Endrin	0.442	0.050	0.5000	0	88.4	50	122	0.4472	1.22	20		
gamma-BHC	0.410	0.025	0.5000	0	82.0	60	112	0.4134	0.799	20		
Heptachlor	0.409	0.025	0.5000	0	81.8	54	124	0.4120	0.760	20		

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

Sample ID: MB-73943MSD	SampType: MSD	TestCode: 8081_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134493						
Client ID: ZZZZZZ	Batch ID: 73943	TestNo: EPA 8081A	EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	0.408		0.5000		81.7	48	108		0	0	
Surr: Decachlorobiphenyl	0.430		0.5000		86.0	36	102		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



Advanced Technology
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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W

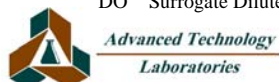
Sample ID: MB-73943	SampType: MBLK	TestCode: 8082_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134512						
Client ID: PBW	Batch ID: 73943	TestNo: EPA 8082	EPA 3510C	Analysis Date: 6/29/2011	SeqNo: 2199263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.50									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	0.50									
Aroclor 1242	ND	0.50									
Aroclor 1248	ND	0.50									
Aroclor 1254	ND	0.50									
Aroclor 1260	ND	0.50									
Aroclor 1262	ND	0.50									
Aroclor 1268	ND	0.50									
Surr: Decachlorobiphenyl	0.400		0.5000		79.9	26	132				
Surr: Tetrachloro-m-xylene	0.409		0.5000		81.8	43	119				

Sample ID: LCSA-73943	SampType: LCS	TestCode: 8082_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134512						
Client ID: LCSW	Batch ID: 73943	TestNo: EPA 8082	EPA 3510C	Analysis Date: 6/29/2011	SeqNo: 2199264						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.304	0.50	5.000	0	86.1	53	115				
Aroclor 1260	4.874	0.50	5.000	0	97.5	52	125				
Surr: Decachlorobiphenyl	0.417		0.5000		83.4	26	132				
Surr: Tetrachloro-m-xylene	0.433		0.5000		86.7	43	119				

Sample ID: MB-73943-MSA	SampType: MS	TestCode: 8082_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134512						
Client ID: ZZZZZ	Batch ID: 73943	TestNo: EPA 8082	EPA 3510C	Analysis Date: 6/29/2011	SeqNo: 2199265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.234	0.50	5.000	0	84.7	54	97				
Aroclor 1260	4.803	0.50	5.000	0	96.1	56	103				
Surr: Decachlorobiphenyl	0.420		0.5000		84.1	52	125				
Surr: Tetrachloro-m-xylene	0.425		0.5000		85.1	53	115				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W

Sample ID: MB-73943-MSDA	SampType: MSD	TestCode: 8082_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134512						
Client ID: ZZZZZZ	Batch ID: 73943	TestNo: EPA 8082	EPA 3510C	Analysis Date: 6/29/2011	SeqNo: 2199266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.307	0.50	5.000	0	86.1	54	97	4.234	1.70	20	
Aroclor 1260	4.927	0.50	5.000	0	98.5	56	103	4.803	2.56	20	
Surr: Decachlorobiphenyl	0.425		0.5000		85.0	26	132		0	0	
Surr: Tetrachloro-m-xylene	0.431		0.5000		86.3	43	119		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

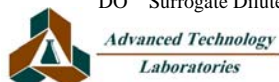
Sample ID: Q110627LCS1		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134434	
Client ID: LCSW		Batch ID: Q11VW118		TestNo: EPA 8260B		Analysis Date: 6/27/2011				SeqNo: 2198306	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.240	0.50	20.00	0	91.2	70	130				
Benzene	37.630	0.50	40.00	0	94.1	70	130				
Chlorobenzene	20.440	0.50	20.00	0	102	70	130				
MTBE	18.750	0.50	20.00	0	93.8	70	130				
Toluene	39.090	0.50	40.00	0	97.7	70	130				
Trichloroethene	19.350	0.50	20.00	0	96.8	70	130				
Surr: 1,2-Dichloroethane-d4	20.520		25.00		82.1	70	130				
Surr: 4-Bromofluorobenzene	22.980		25.00		91.9	70	130				
Surr: Dibromofluoromethane	21.160		25.00		84.6	70	130				
Surr: Toluene-d8	21.910		25.00		87.6	70	130				

Sample ID: Q110627MB3MS		SampType: MS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134434	
Client ID: ZZZZZ		Batch ID: Q11VW118		TestNo: EPA 8260B		Analysis Date: 6/27/2011				SeqNo: 2198307	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.890	0.50	20.00	0	79.4	70	130				
Benzene	35.920	0.50	40.00	0	89.8	70	130				
Chlorobenzene	19.590	0.50	20.00	0	98.0	70	130				
Toluene	37.000	0.50	40.00	0	92.5	70	130				
Trichloroethene	18.010	0.50	20.00	0	90.1	70	130				
Surr: 1,2-Dichloroethane-d4	19.640		25.00		78.6	70	130				
Surr: 4-Bromofluorobenzene	22.380		25.00		89.5	70	130				
Surr: Dibromofluoromethane	20.250		25.00		81.0	70	130				
Surr: Toluene-d8	22.300		25.00		89.2	70	130				

Sample ID: Q110627MB3MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134434	
Client ID: ZZZZZ		Batch ID: Q11VW118		TestNo: EPA 8260B		Analysis Date: 6/27/2011				SeqNo: 2198308	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.740	0.50	20.00	0	93.7	70	130	15.89	16.5	20	

Qualifiers:

- | | | |
|---|--|--|
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| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

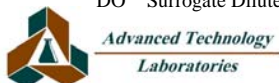
TestCode: 8260_WP_LL

Sample ID: Q110627MB3MSD	SampType: MSD	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: ZZZZZ	Batch ID: Q11VW118	TestNo: EPA 8260B	Analysis Date: 6/27/2011	SeqNo: 2198308							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.110	0.50	40.00	0	97.8	70	130	35.92	8.50	20	
Chlorobenzene	20.670	0.50	20.00	0	103	70	130	19.59	5.37	20	
Toluene	41.010	0.50	40.00	0	103	70	130	37.00	10.3	20	
Trichloroethene	19.900	0.50	20.00	0	99.5	70	130	18.01	9.97	20	
Surr: 1,2-Dichloroethane-d4	20.500		25.00		82.0	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.120		25.00		92.5	70	130		0	0	
Surr: Dibromofluoromethane	21.320		25.00		85.3	70	130		0	0	
Surr: Toluene-d8	22.890		25.00		91.6	70	130		0	0	

Sample ID: Q110627MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: PBW	Batch ID: Q11VW118	TestNo: EPA 8260B	Analysis Date: 6/27/2011	SeqNo: 2198309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
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| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110627MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: PBW	Batch ID: Q11VW118	TestNo: EPA 8260B		Analysis Date: 6/27/2011	SeqNo: 2198309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110627MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: PBW	Batch ID: Q11VW118	TestNo: EPA 8260B	Analysis Date: 6/27/2011	SeqNo: 2198309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Hexane	ND	1.0									
Surr: 1,2-Dichloroethane-d4	24.840		25.00		99.4	70	130				
Surr: 4-Bromofluorobenzene	23.860		25.00		95.4	70	130				
Surr: Dibromofluoromethane	24.630		25.00		98.5	70	130				
Surr: Toluene-d8	23.180		25.00		92.7	70	130				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_FULL

Sample ID: MB-73864	SampType: MBLK	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408
Client ID: PBW	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197201

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	10									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
1,4-Dioxane	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	10									
2,4-Dichlorophenol	ND	10									
2,4-Dimethylphenol	ND	10									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
2-Methylnaphthalene	ND	10									
2-Methylphenol	ND	10									
2-Nitroaniline	ND	50									
2-Nitrophenol	ND	10									
3,3'-Dichlorobenzidine	ND	20									
3-Nitroaniline	ND	50									
4,6-Dinitro-2-methylphenol	ND	50									
4-Bromophenyl-phenylether	ND	10									
4-Chloro-3-methylphenol	ND	50									
4-Chloroaniline	ND	20									
4-Chlorophenyl-phenylether	ND	10									
4-Methylphenol	ND	10									
4-Nitroaniline	ND	20									
4-Nitrophenol	ND	50									
Acenaphthene	ND	10									
Acenaphthylene	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

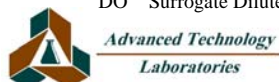
TestCode: 8270_W_FULL

Sample ID: MB-73864	SampType: MBLK	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408
Client ID: PBW	Batch ID: 73864	TestNo: EPA 8270C	EPA 3510C	Analysis Date: 6/24/2011	SeqNo: 2197201

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	10									
Benzidine (M)	ND	50									
Benzo(a)anthracene	ND	10									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	10									
Bis(2-chloroisopropyl)ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
Butylbenzylphthalate	ND	10									
Chrysene	ND	10									
Di-n-butylphthalate	ND	10									
Di-n-octylphthalate	ND	10									
Dibenz(a,h)anthracene	ND	10									
Dibenzofuran	ND	10									
Diethylphthalate	ND	10									
Dimethylphthalate	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorobutadiene	ND	20									
Hexachlorocyclopentadiene	ND	10									
Hexachloroethane	ND	10									
Indeno(1,2,3-cd)pyrene	ND	10									
Isophorone	ND	10									
N-Nitrosodi-n-propylamine	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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CLIENT: MACTEC
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ANALYTICAL QC SUMMARY REPORT

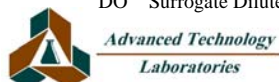
TestCode: 8270_W_FULL

Sample ID: MB-73864		SampType: MBLK		TestCode: 8270_W_FUL		Units: µg/L		Prep Date: 6/24/2011		RunNo: 134408	
Client ID: PBW		Batch ID: 73864		TestNo: EPA 8270C EPA 3510C				Analysis Date: 6/24/2011		SeqNo: 2197201	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
Nitrobenzene	ND	10									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
Surr: 1,2-Dichlorobenzene-d4	70.340		100.0		70.3	46	97				
Surr: 2,4,6-Tribromophenol	68.680		100.0		68.7	59	124				
Surr: 2-Chlorophenol-d4	66.140		100.0		66.1	49	93				
Surr: 2-Fluorobiphenyl	78.630		100.0		78.6	57	107				
Surr: 2-Fluorophenol	41.860		100.0		41.9	27	60				
Surr: 4-Terphenyl-d14	107.150		100.0		107	69	132				
Surr: Nitrobenzene-d5	80.920		100.0		80.9	52	107				
Surr: Phenol-d5	29.720		100.0		29.7	15	50				

Sample ID: LCS-73864		SampType: LCS		TestCode: 8270_W_FUL		Units: µg/L		Prep Date: 6/24/2011		RunNo: 134408	
Client ID: LCSW		Batch ID: 73864		TestNo: EPA 8270C EPA 3510C				Analysis Date: 6/24/2011		SeqNo: 2197202	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	94.160	10	100.0	0	94.2	60	106				
1,4-Dichlorobenzene	84.200	10	100.0	0	84.2	52	98				
2,4-Dinitrotoluene	108.680	10	100.0	0	109	81	123				
2-Chlorophenol	77.740	10	100.0	0	77.7	46	105				
4-Chloro-3-methylphenol	96.690	50	100.0	0	96.7	51	140				
4-Nitrophenol	42.850	50	100.0	0	42.8	20	74				
Acenaphthene	86.210	10	100.0	0	86.2	64	119				
N-Nitrosodi-n-propylamine	99.660	10	100.0	0	99.7	65	117				
Pentachlorophenol	73.120	50	100.0	0	73.1	55	142				
Phenol	35.260	10	100.0	0	35.3	18	52				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

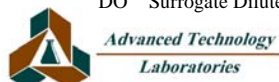
TestCode: 8270_W_FULL

Sample ID: LCS-73864	SampType: LCS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: LCSW	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	114.390	10	100.0	0	114	73	120				
Surr: 1,2-Dichlorobenzene-d4	80.330		100.0		80.3	46	97				
Surr: 2,4,6-Tribromophenol	85.680		100.0		85.7	59	124				
Surr: 2-Chlorophenol-d4	74.430		100.0		74.4	49	93				
Surr: 2-Fluorobiphenyl	96.000		100.0		96.0	57	107				
Surr: 2-Fluorophenol	44.940		100.0		44.9	27	60				
Surr: 4-Terphenyl-d14	108.470		100.0		108	69	132				
Surr: Nitrobenzene-d5	89.770		100.0		89.8	52	107				
Surr: Phenol-d5	33.230		100.0		33.2	15	50				

Sample ID: MB-73864MS	SampType: MS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: ZZZZZZ	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	82.130	10	100.0	0	82.1	60	106				
1,4-Dichlorobenzene	73.230	10	100.0	0	73.2	52	98				
2,4-Dinitrotoluene	105.680	10	100.0	0	106	81	123				
2-Chlorophenol	70.910	10	100.0	0	70.9	46	105				
4-Chloro-3-methylphenol	91.010	50	100.0	0	91.0	51	140				
4-Nitrophenol	44.850	50	100.0	0	44.8	20	74				
Acenaphthene	81.210	10	100.0	0	81.2	64	119				
N-Nitrosodi-n-propylamine	90.210	10	100.0	0	90.2	65	117				
Pentachlorophenol	77.870	50	100.0	0	77.9	55	142				
Phenol	35.090	10	100.0	0	35.1	18	52				
Pyrene	110.610	10	100.0	0	111	73	120				
Surr: 1,2-Dichlorobenzene-d4	69.340		100.0		69.3	46	97				
Surr: 2,4,6-Tribromophenol	82.470		100.0		82.5	59	124				
Surr: 2-Chlorophenol-d4	66.160		100.0		66.2	49	93				
Surr: 2-Fluorobiphenyl	87.550		100.0		87.6	57	107				
Surr: 2-Fluorophenol	41.960		100.0		42.0	27	60				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: MACTEC
 Work Order: 118601
 Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

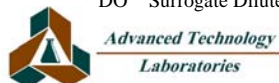
TestCode: 8270_W_FULL

Sample ID: MB-73864MS	SampType: MS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: ZZZZZ	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	102.210		100.0		102	69	132				
Surr: Nitrobenzene-d5	79.290		100.0		79.3	52	107				
Surr: Phenol-d5	32.760		100.0		32.8	15	50				

Sample ID: MB-73864MSD	SampType: MSD	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: ZZZZZ	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	81.500	10	100.0	0	81.5	60	106	82.13	0.770	20	
1,4-Dichlorobenzene	71.400	10	100.0	0	71.4	52	98	73.23	2.53	20	
2,4-Dinitrotoluene	105.420	10	100.0	0	105	81	123	105.7	0.246	20	
2-Chlorophenol	68.500	10	100.0	0	68.5	46	105	70.91	3.46	20	
4-Chloro-3-methylphenol	90.080	50	100.0	0	90.1	51	140	91.01	1.03	20	
4-Nitrophenol	45.720	50	100.0	0	45.7	20	74	44.85	0	20	
Acenaphthene	81.150	10	100.0	0	81.2	64	119	81.21	0.0739	20	
N-Nitrosodi-n-propylamine	88.370	10	100.0	0	88.4	65	117	90.21	2.06	20	
Pentachlorophenol	77.660	50	100.0	0	77.7	55	142	77.87	0.270	20	
Phenol	33.680	10	100.0	0	33.7	18	52	35.09	4.10	20	
Pyrene	110.900	10	100.0	0	111	73	120	110.6	0.262	20	
Surr: 1,2-Dichlorobenzene-d4	66.640		100.0		66.6	46	97		0	0	
Surr: 2,4,6-Tribromophenol	82.450		100.0		82.4	59	124		0	0	
Surr: 2-Chlorophenol-d4	63.830		100.0		63.8	49	93		0	0	
Surr: 2-Fluorobiphenyl	84.780		100.0		84.8	57	107		0	0	
Surr: 2-Fluorophenol	40.630		100.0		40.6	27	60		0	0	
Surr: 4-Terphenyl-d14	103.200		100.0		103	69	132		0	0	
Surr: Nitrobenzene-d5	78.830		100.0		78.8	52	107		0	0	
Surr: Phenol-d5	31.350		100.0		31.4	15	50		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A029	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: ZZZZZZ	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	10									
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Sample ID: LCS-Z11A029	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: ZZZZZZ	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	968.719	10	1000	0	96.9	70	130				
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Sample ID: LCSD-Z11A029	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: ZZZZZZ	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

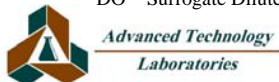
Methane	995.356	10	1000	0	99.5	70	130	968.7	2.71	20	
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Sample ID: 118601-006ADUP	SampType: DUP	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: M-119-RED 15'	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200194						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	13.503	10						13.44	0.438	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: RSK175_ATL

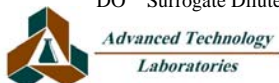
Sample ID: MB-Z11A030	SampType: MBLK	TestCode: RSK175_ATL	Units: ug/L	Prep Date:	RunNo: 134626						
Client ID: PBW	Batch ID: Z11A030	TestNo: RSK175		Analysis Date: 6/28/2011	SeqNo: 2201559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	200									
Ethane	ND	2.0									
Ethylene	ND	3.0									
Methane	ND	1.0									

Sample ID: LCS-Z11A030	SampType: LCS	TestCode: RSK175_ATL	Units: ug/L	Prep Date:	RunNo: 134626						
Client ID: LCSW	Batch ID: Z11A030	TestNo: RSK175		Analysis Date: 6/28/2011	SeqNo: 2201560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	658.450	200	810.0	0	81.3	70	130				
Ethane	164.380	2.0	171.0	0	96.1	70	130				
Ethylene	195.870	3.0	212.0	0	92.4	70	130				
Methane	99.970	1.0	98.00	0	102	70	130				

Sample ID: LCSD-Z11A030	SampType: LCSD	TestCode: RSK175_ATL	Units: ug/L	Prep Date:	RunNo: 134626						
Client ID: LCSS02	Batch ID: Z11A030	TestNo: RSK175		Analysis Date: 6/28/2011	SeqNo: 2201561						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	653.140	200	810.0	0	80.6	70	130	658.4	0.810	20	
Ethane	159.200	2.0	171.0	0	93.1	70	130	164.4	3.20	20	
Ethylene	189.580	3.0	212.0	0	89.4	70	130	195.9	3.26	20	
Methane	97.050	1.0	98.00	0	99.0	70	130	99.97	2.96	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



July 5, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 118601
Lab Number: C062401-01

Enclosed are results for sample(s) received 6/24/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada
Project Name: NA
Project No.: 118601
Date Received: 06/24/11
Matrix: Air
Reporting Units: ppmv

EPA 15/16							
Lab No.:	C062401-01						
Client Sample I.D.:	118601-006B / M-119-RED 15'						
Date Sampled:	06/23/11						
Date Analyzed:	06/24/11						
QC Batch No.:	110624GC3A1						
Analyst Initials:	ZK						
Dilution Factor:	1.0						
ANALYTE	Result ppmv	RL ppmv					
Hydrogen Sulfide	ND	0.20					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 7-5-11

The cover letter is an integral part of this analytical report




QC Batch No.: 110624GC3A1
 Matrix: Air
 Units: ppmv

Page 3 of 3
 C062401

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	06/24/11		06/24/11		06/24/11			
Analyst Initials:	ZK		ZK		ZK			
Datafile:	24jun004		24jun002		24jun003			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	98	70-130%	100	70-130%	1.8	<30

ND = Not Detected (Below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 7-5-11

The cover letter is an integral part of this analytical report.

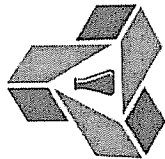


2062401-01

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040



QC Level: RTNE

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:



Field Sampler: Anthony Marino

23-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests
118601-006B / M-119-RED 15'	Vapor	6/23/2011 11:30:00 AM	TEDLAR BAG	1	

01

General Comments: Please email sample receipt acknowledgement to the PM. (RX)
 Please use PO#: SC06527 Please fax results by: NORMAL TAT
 Analyze the sample for H2S by EPA 1516
 Please send report to Rachelle Arada

Relinquished by: 	Date/Time: 6/23/11 9:33
Relinquished by: 	Date/Time: 6/24/11 9:33

CHAIN OF CUSTODY RECORD



ADVANCED LABORATORIES TECHNOLOGY
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____ Quote #: 1471
 Logged By: _____ Date: 6/23/11
NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY

Method of Transport: Client, ATL, FedEx, GSO, Other: _____

Sample Condition Upon Receipt:
 1. CHILLED 5.1 Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: MACTEC Address: 2171 CAMPUS DRIVE City: IRVINE State: CA Zip Code: 92612 Tel: 949-224-0050 X32
 Attention: ANTHONY MARINO Project #: 4953101561 City: IRVINE State: CA Zip Code: 92612 Fax: 949-224-0073
 Project Name: MTA WESTSIDE EXTENSION
 Relinquished by: Ed Aenitz (Signature and Printed Name) Date: 6/23/11
 Relinquished by: Ed Aenitz (Signature and Printed Name) Date: 6/23/11
 Relinquished by: _____ (Signature and Printed Name) Date: _____
 Relinquished by: _____ (Signature and Printed Name) Date: _____

Special Instructions/Comments: 9 VOAS, 2 CLEAR JARS, 3 Amber lt, 1 liter poly

Bill To: TYLER THURMAN
 Attn: _____
 Co: MACTEC
 Addr: 5628 E. SLAUSON AVE
 City: LA State: CA Zip: 90040

I hereby authorize ATL to perform the work indicated below.
 Project Mgr /Submitter: ANTHONY MARINO Date: _____
 Signature: _____ Date: _____

ITEM	LAB USE ONLY:		Sample Description	Date	Time	Container(s)	Type	TAT #	TAT *	REMARKS
	Batch #	Lab No.								
1	11801-007	M-116-B		6/23/11	12:00			17	*	TUB
2		M-116-A		6/23/11	12:15			1		TUB
3		M-116-B		6/23/11	12:30			1		TUB
4		M-115-A		6/23/11	9:45			1		TUB
5		M-115-B		6/23/11	10:10			1		TUB
6		M-119-PAD 15'		6/23/11	11:30			2	B	Tedlar

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 Sample: \$2.00 / sample /mo (after 45 days)
 Records: \$1 /ATL workorder /mo (after 1 year)

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

TAT: A = Overnight ≤ 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Figure G-3.7.71

G-3.8

MTA Westside Extension PE Phase

Vapor Sample Data

Location: M-114

July 19, 2011



Jay Neuhaus
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

ELAP No.:1838
NELAP No.:02107CA
CSDLAC No.:10196
ORELAP No.:CA300003

Workorder No.: 118863

RE: MTA Westside, 4953-10-1561

Attention: Jay Neuhaus

Enclosed are the results for sample(s) received on July 11, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

