VOLUME IV

TEST BORING LOGS

RAPID TRANSIT SYSTEM BACKBONE ROUTE

Prepared For

The Los Angeles

Metropolitan Transit Authority

June 1962

Kaiser Engineers

Los Angeles · California

00414

VOLUME IV - BOOK 3

TEST BORING LOGS

Prepared For

THE LOS ANGELES METROPOLITAN TRANSIT AUTHORITY

By

KAISER ENGINEERS
Los Angeles, California

June 1962

KA	ISER	ENG	NE	CDC

TEST BORING LOGS

The drillhole logs in this book include holes No. WC-61 through WC-124. Logs for drillholes No. SM-1 through WC-60 are in Volume IV - Book 2.

HOLE NO. WC-61	DATE 3-21-62	PAGE NO. 1 OF 14 PAGES
LOCATION Wilshire & Gramercy Pi.	JOB NO. 6148-5	_
COLLAR ELEV. 191.6	INSPECTOR R. Singh	

OLLAR	R ELEV191.					
	GEOLO	GIC NOTES				
epth	Classification and Physical Character					
	0 -0.4	Concrete				
		(2)() (2)()				
	0.4 - 5.0	(SM) Silty sand, Light				
		brown color, sand is				
		coarse grained to medium,				
		damp, inorganic, dense,				
		slight plasticity				
	5.0 - 6.5	(SM) WC-61-1				
		Silty sand as above				
		III Disturbed				
		II Disturbed				
	***************************************	II Disturbed I Disturbed				
	6.5 - 10.0	(SM) Silty sand, light				
		brown color as above				
		becoming gray silty sand,				
		clayey, dense, inorganic,				
		low plasticity				
	10.0 - 11.5	(SM) WC-61-2				
		Silty sand, clayey				
		III				
		II				
		T				
	11.5 - 15.0					
		gray color, dense, inorgan				
		low plasticity				
	15.0 - 16.5	(SM) WC-61-3				
		Same as above				
		III				
		II				
		I				

ſ	BORING NOTES								
Hol	Drilling Method_Auger Hole Size_5"								
Ang	jle_ <u>Ve</u>	rtica	ıl	_ Bea	ring				
FROM TO INTERV. RECOV. RECOV. REMARKS									
0	0.4	0.4			Tri-Cone				
0.4	53.0	52.8			Auger				

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
			No Casing

SAMPLING NOTES TYPE SAMPLER Split Tube SIZE 211 WT. OF HAMMER 140 16 DROP 3011									
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BL0)WS	24"	
1	5.0	6.5	1.5		6	15	30		
2	10.0	11.5	1.5		10	20	32		
3	15.0	16.5	1.5		5	11	25		
			:						

GROUND WA	TER	OBSERVA	FIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-61	DATE 3-21-62	PAGE NO. 2 OF 4 PAGES
LOCATION Wilshire & Gramercy Pl.	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLOGIC NOTES							
Depth	Classificat	Classification and Physical Character						
	16.5 - 20.0	(ML) Clayey silt with						
		small amount of sand						
		mixture, gray color, damp,						
		înorganic, dense, low						
		plasticity						
<u> </u>	20.0 - 21.5	(ML) WC-61-4						
		Clayey silt with sand						
		mixture						
		III						
		II						
		I						
	21.5 - 25.0	(ML) Clayey silt as above						
	102 0 0/2	(307) 170 (3 d						
	25.0 - 26.5							
		Clayey silt as above						
		III						
		II I						
<u> </u>	<u> </u>	<u>.</u>						
ļ <u>i</u>	26 6 20 0	(24T CM) C2						
	20.5 = 30.0	(ML-SM) Clayey silt becom-						
		ing more silty sand, damp,						
		micaceous, inorganic, dense low to slight plasticity						
}	30.0 - 31.5	(SM) WC-61-6						
		Silty, fine sand, damp,						
		gray color, micaceous						
		III						
		II						
		I						
	Note: Secon	nd observation made at 3:30						
	A.M.	Water level at 15',						
	risir	ng through drilling						

	[30RI	NĜ	NO	TES			
Hole	Siz	е	·············	·				
Ang	AngleBearing							
FROM	то	INTERY. REGOV. REGOV. REMARKS						

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

SA	MP	LINO	3 N	<u>0 T</u>	ES				
TYPE SAMPLER Split -Tube SIZE 2" WT. OF HAMMER 140 lt DROP 30"									
FROM	то	INTERV.	REGOV.	6"			24"		
20.0	21.5	1.5		6	16	32			
25,0	26.5	1.5		6	14	27			
30.0	31.5	1.5		7	16	33			

	-								
	FROM 20.0	## wt. of ham FROM TO 20.0 21.5 25.0 26.5	MPLER SDILT -Tub WT. OF HAMMER 114 FROM TO INTERV.	## wt of hammer 140 lt FROM TO INTERV. RECOV. 20.0 21.5 1.5 25.0 26.5 1.5	### ##################################	## WT. OF HAMMER 140 1k DROP 30 FROM TO INTERV. RECOV. 6" 12" 20.0 21.5 1.5 6 16 25.0 26.5 1.5 6 14	WI OF HAMMER 140 1t DROP 30"		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	25 1
DEPTH TO WATER	201
TIME OF OBSERV.	11:15 P.M. 3-21-62

HOLE NO. WC-61	DATE 3-21-62	PAGE NO. 3 OF 4 PAGES
LOCATION Wilshire & Gramercy Pl.	JOB NO. 6148=5	
COLLAR ELEV.	INSPECTOR R. Singh	

	1 02020	GIC NOTES
Depth	Classificat	ion and Physical Character
	31.5 - 35.0	
		Clayey becoming coarse
		grained to medium sand,
		gravelly, damp, inorganic,
		dense
	35.0 - 36.5	(SM) WC-61-7
		III NF
		II NF
		I
	36.5 - 40.0	(SM) Silty sand, damp,
	7007 4000	gray color, medium grained
		sand, inorganic
		Total Business
	40.0 - 41.5	
		No sample - hole caving
		in at this depth
		III No sample
		II No sample
		I No sample
	41.5 - 45.0	(SM) Silty sand, as
		above
	45.0 - 46.5	WC-61-9
		No sample, water increas-
		ing in hole
	1/4 = ===	(car) com a second
	46.5 - 50.0	(SM) Silty sand, sand is
		coarse to medim grained
	50.0 - 51.5	(SM) WC=61-10-
		Silty sand, little fines,
		sand is coarse grained, very damp, inorganic,
		gray color
		III Empty
		II Wet
		I Wet

	E	BORI	NĠ	N O	ΓES
i .	ling		o d		
Ang	le			_ Bea	ring
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS

	-				

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

	S A	A M P	LIN	3 N	0 T	ES		
TYPE SE	MPLER	DPLIT	100	40 It	_ DR(OP_3C) ? ?	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L (18"	24"
7	35.0	36.5	1.5		5	13	23	
8	40.0	41.5	1.5		2	Ţ	7	NS
9	45.0	46.5	1.5		9	24	43	NS
.10	50.0	51.5	1.5		<u>L</u> ;	11	30	
L		<u> </u>						

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	Ab
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	N WC-61 N Wilshire & Gramercy Pl. ELEV.	JOB NO. 6148-5 INSPECTOR R.	Sing	h_	PAG	E NO.	4 ()F_	Ţţ	PA	GE:
	GEOLOGIC NOTE	,			ORI	N Ġ	NO	TE	s	 ;	
Depth	Classification and Phys	ical Character	Dri Hol	lling e Siz	Meth	od					
	51.5 - 53.0 (SM) Silty s	and as above	Ang	le		· · · · · · · · · · · · · · · · · · ·	_ Bea	ring			
		-ll ole caving in d flow of water	FROM	то	INTERV	REGOV.	% RECOV.		REMA	RKS	
				С	ASI	NG	NOT	TE	<u> </u>		
			FROM	TO	SIZE		R	EMARI	(S		
				S A	MP	LIN	G N	<u>0 T</u>	ES		
			TYPE SA	MPLER W1	OF HAM	MER		_ DRG			
-			SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLO		24"
			11	53	54.5	1.5		17	30		
· · · · · · · · · · · · · · · · · · ·											
			DEPTH	OF HOLE		TER	OBS	ER	VAT	101	NS

HOLE NO. WC-62	DATE	9-62	PAGE NO. 1 OF 4 PAGES
LOCATION Wilshire & Andrews Pl.	JOB NO. 6148	3 - 5	<u>.</u>
COLLAR ELEV. 196.2	INSPECTOR_	R. Singh	

	GEOLOGIC NOTES						
Depth	Classificat	ion and Physical Character					
	0 - 1.0	Asphalt - Concrete (SM) Silty sand, brown					
	1.0 - 5.0						
		color, small amount of clay					
		damp, medium dense, low					
		consistency, inorganic					
	5.0 - 6.5						
		Silty sand, light brown					
		color, damp, inorganic, low					
		consistency, some coarse					
		gravel					
		III Disturbed					
	.	II Disturbed					
		I Disturbed					
	6.5 - 10.0	(SM) Silty sand, brown					
	,	color, more clayey than					
		above, medium dense, low					
		consistency, inorganic					
	10.0 - 11.5	(ML) WC-62-2					
		Clayey silt, damp					
		III NF Disturbed					
		II Disturbed					
		I Disturbed					
_	11.5 - 15.0	(ML) Clayey silt, brown					
		color, damp, dense,					
		inorganic, some coarse					
		grained gravel.					
	15.0 - 16.5	(ML) WC-62-3					
	10.0	Clayey silt, brown color					
		damp, dense, inorganic,					
		some coarse grained gravel					
		III					
		II					
		I					

	8	ORI	NĠ	NO.	TES
Hol	e Siz	Meth e	5°11	Auger	
Ang	le_ _{Ve}	rtica	al	- Bea	ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS
0	1.0	1.0			Tri-Cone
1.0	50.0	44.0			Auger

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			No Casing

a.	S A	MP	LIN	G N	0 T	ES		
SIZE 2	TYPE SAMPLER Split-Tube SIZE 2!! WT. OF HAMMER 1401b DROP 30!!							
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L (IS"	24"
1	5.0	6.5	1.5		9	20	32	
2	10.0	11.5	1.5		5	11	18	
3	15.0	16.5	1.5		3	12	24	
			,					
			·					
	,							

GROUND W	<u>ATER OBSERVATIONS</u>
DEPTH OF HOLE	20.0
DEPTH TO WATER	16.0
TIME OF OBSERV.	12:15 FM 3/19/62

HOLE NO. WC-62	DATE $\frac{3-19-62}{}$	PAGE NO. 2 OF 4 PAGES
LOCATION Wilshire & St. Anrews	Pl. JOB NO. 6148-5	_
COLLAR ELEV.	_ INSPECTOR_R. Singh	·

OCATIO	N wilshire & S	t. Anrews Pl. JOB NO. 6148-	<u>.5</u>								
COLLAR	ELEV.	INSPECTOR_R	Singl	1							
,	GEOLO	GIC NOTES		E	BORI	NĠ	NO.	TE	S		_
Depth	Classificati	ion and Physical Character	11	lling le Siz				······································			
	16.5 - 20.0	(ML-GM) Clayey silt,] And	gle	· -· · · · · · · · · · ·	 .	_ Bea	ring			
		gravelly sand - silt mixture, damp, brown color, sand is coarse at 20.0;]	то		: :	% REGOV.			ARKS	_
	· · · · · · · · · · · · · · · · · · ·	inorganic	↓ }	ļ	 	<u> </u>	ļ				
	20.0 - 21.5	(GM-ML) WC-62-4 Gravelly - sand- silt becoming clayey silt at about 20.5'									
		III				<u> </u>	<u> </u>				
	<u> </u>	I	1							-	
			┪┣──				 	-			_
	21.5 - 25.0	(ML) Clayey silt, brown, some coarse sand and little								·	
		gravel mixture, damp,									
· ·		inorganic	1	<u>С</u>	T	NG	NOT	<u>E</u> :	<u>S</u>		
			FROM	TO	SIZE		RI	EMARI	KS		
	25.0 - 26.5	(SM) WC-62-5]								_
		Silty sand with coarse	│└ ─	<u> </u>	<u> </u>	<u> </u>		—			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	gravel mixture, gravel is	ļ 	<u> </u>	A MAD	1 1 1 1	G N	<u> </u>	<u> </u>		
		about 20%	TYPE S	AMPLER_	AIVIF	L 1 14	G IN	<u>U 1</u>	<u> </u>		
		III	SIZE	w					0P		_
		II .	SMPL. NO.	FROM	то	INTERV.	REGOV.	6"		OWS	2
			4	20,0	21.5	1.5		6	15	24	
	26.5 - 30.0	(ML) Clayey silt, gray colo	5		26.5				15	26	
		Micaceous, damp, dense, in-		30.0	31.5	1.5		5	14	24	
		organic, low consistency]						<u> </u>		
]	ļ	ļ			<u> </u>	<u> </u>		<u> </u>
	30.0 - 31.5	(ML) WC-62-6]						<u> </u>		<u> </u>
		Same as above		ļ			ļ	<u> </u>	<u> </u>	ļļ	,
		III	 	ļ					<u> </u>		
	<u> </u>	II	 	<u> </u>	Ĺj			<u> </u>			
		I	[A	TIME	11/ 4		000		\/ A ·		.
											A

DEPTH OF HOLE DEPTH OF WATER TIME OF OBSERV.

HOLE NO	WC-62		DATE _	3-19-62	PAGE NO. $\frac{3}{}$ OF $\frac{1}{4}$ PAGES
LOCATION	Wilshire & St.	Andrews	PlyOB NO	6148-5	
COLLAR E	LEV		INSPECT	OR R. Singh	

	GEOLOG	IC NOTES
Depth	Classification	on and Physical Character
	31.5 - 35.0	(ML) Clayey silt with
	:	small amount of coarse-
		grained sand, damp, gray
		color, inorganic, slight
		consistency.
	35.0 - 36.5	(ML) WC-62-7
		Clayey silt, gray color,
		medium dense, inorganic.
		III
		II
		I ,
	36.5 - 40.0	(ML) Clayey silt with sand
		mixture becoming silt-
		sand-gravel mixture at
		40.01, damp, gray color,
		inorganic, medium dense.
	40.0 - 41.5	(GM: WC-62-8
		Gravel-sand-silt mixture,
		10% gravel coarse grained.
		well graded.
		III
-		II
		I
	41.5 - 45.0	(GM) Gravel-sand-silt
		mixture with gravel about
		10%, coarse-grained with
		medium sand, damp, medium
		dense, non-plastic
	45.0 - 46.5	(GM) WC-62-9
		Same as above
		III
		II
		I

			_							
\$	E	BORI	NĠ	NO.	TES					
Drilling Method Hole SizeBearing										
FROM	то		ERV. REGOV. REGOV. REMARKS							
		ļ								
					· · · · · · · · · · · · · · · · · · ·					

CASING			NG	NOTES	
FROM	TO	SIZE		REMARKS	
			- 1		

	SAMPLING NOTES								
	TYPE SAMPLER BYT. OF HAMMER DROP								
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L C		24"	
7	35.0	36.5	1.5		3	13	19		
8	40.0	41.5	1.5		5	21	46		
9	45.0	46.5	1.5		10	28	64		
÷									
						<u> </u>			

GROUND W	ATER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

LOCATIO	O. WC-62 DATE 3-19- ON Wilshire & St. Andrews Pl JOB NO. 6148-	- 5		PAGI	E NO.	<u> </u>)F_	<u> </u>	РΑ	GES
COLLAR	ELEV INSPECTOR_R.	Singi		2001	<u> </u>	N O	- -		<u> </u>	
Depth	GEOLOGIC NOTES Classification and Physical Character	Hole Size								
<u> </u>	46.5 - 50.0 (SM) Silty sand with small	And	gle			_ Bea	ring	<u> </u>		
	amount of gravel, coarse, damp, inorganic, medium dense.	FROM	то	INTERV.	REGOV.	% RECOV.		REM	ARKS	
	50.0 - 51.5 (SM) WC-62-10		<u> </u>							
	Same as above									
	III									
	II I	-					Ĺ			
	-]			ļ					
<u> </u>		 	<u> </u>							
		-								
		1	С	ASI	NG	NO.	T F	<u> </u>	······	
	<u> </u>	FROM	то	SIZE			EMAR			
		1					· ·			
		1	<u> </u>							
				AMP	LIN	G N	0 T	ES		
		TYPE S	W	T. OF HAM	MER		DR	OP		
		SMPL. NO.		<u> </u>		REGOV.	6"	12")WS ;	24"
		10	50.0	51.5	1.5		6	15	23	ļ
	2		 	<u> </u>			<u> </u>	-	<u> </u>	<u> </u>
		 								
		1 -	<u> </u>		l				*	
		1								
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		┧┖—	<u> </u>	<u></u>	ł		L			
		GRO	DUND	WA	TER	OBS	ER	VAT	ΓΙQ	NS
			OF HOL							

TIME OF OBSERV.

HOLE NO. WC-63	DATE3/16/62	PAGE NO. 1 OF 3 PAGES
LOCATION Wilshire & Manhattan Pl.	JOB NO. 6148-5	_
COLLAR ELEV. 197.h	INSPECTOR R. Singh	

OLLAR	ELEV. 197.h INSPECTOR R
	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 0.4 Concrete
	0.4 - 5.0 (GM, SM)
	Silty sand, light gray colo
 	silt is about 10%, some
	coarse gravel mixture,
	medium dense, inorganic,
	low plasticity
	5.0 - 6.5 (SM) WC-63-1
	Silty sand, as above
	III Disturbed
	II Disturbed
	I Disturbed
	6.5 - 10.0 (GM)
	Gravel-sand-silt mixtures,
	sand is coarse & gravelly.
	gray color, dry, inorganic
	10.0 - 11.5 (SM) WC-63-2
	Silty sand with little
	gravel mixture, gravel is
	ccarse
	III Disturbed
	II Disturbed
	I Disturbed
	11.5 - 15.0 (SM, ML)
	Silty sand becoming more
	clayey silt, gray color,
	very fine silt, slight
	plasticity, inorganic,
	coarse sand at 16.0
-	Note: Water appears to be dripping
	in hole from small channel at
	121

-	,	E	ORI	NĞ	NO.	TES				
		•	Meth e5**		Auge	er				
	Angle_VerticalBearing									
	FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
'	0. 0	0.4	0.4			Tri-Cone				
-	J.4	12.0	36.6			Auger				
		ļ			ļ					
		<u> </u>	ļ							
		<u> </u>	ļ							

,š.	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
			No casing

	SAMPLING NOTES TYPE SAMPLER Split-Tube									
TYPE SA	MPLER_	Sp.	it-Tu MER_]/	ibe i0 Ib	_ DRO	OP	30!!			
SMPL.	FROM	то	INTERV.	REGOV.	6"	BLC	WS	24"		
1	5.0	6.5	1.5		14	311	55			
. 2	10.0	11.5	1.5		9	21	28			
:										

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	15.01
DEPTH COWATER	12.0
TIME OF OBSERV.	10:30 PM 3/16/62

HOLE NO. WC-63	DATE 3/16/32	PAGE NO. 2 OF 3 PAGES
LOCATION Wilshire & Manhattan Pl.	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR_R. Singh	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	15.0 - 16.5 (SM) WC-63-3
	Silty send, sand is ctarse,
	light brown-yellow color,
	damp, petroliferous traces
	in tube I
	III Empty
	II Empty
	I Empty
·	16.5 = 20.0 (SM)
	Silty sand, medium-grained
	sand with little amount of
	clay, yellowish-gray color,
	damp, inorganic
	20.0 - 21.5 (SM) WC-63-4
	Silty sand, wet, medium
	grained, inorganic
	III Disturbed
	II Disturbed
	I Disturbed
	21.5 - 25.0 (SM, ML)
	Silty sand-clayey fine sand
	damp, inorganic, gray color,
	micaceous, slight plasticity
	25.0 = 26.5 (ML) WC-63-5
	Silty fine sand, gray color
	damp, inorganic
	III
	II
	I

	BORING NOTES									
Drilling MethodAuger										
ł.		e <u>5"</u>								
Ang	le ^V	ertic	al	_ Bea	ring					
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS					

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
		1			

TYPE SAMPLER DROP									
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLC	18"	24	
_ 3 :	15.0	16.5	1.5		12	39	79		
4	20.0	21.5	1.5		7	15	24		
5 5	5.0	26.5	1.5		9	24	14		
_									

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER	,		
TIME OF OBSERV.			

		Manhattan Pl. JOB N										
COLLAR			CIUR_R.			2001	<u> </u>	110	- -			
	GEOLO	GIC NOTES				BORI						
Depth	Classificat	ion and Physical Cl	naracter			Meth						
				Hol	IE SIZ	e					····	
	06 5 22 0	/am1		Ang	Jie	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	- Rea	ring	<u> </u>		
· ·	26.5 - 30.0			FROM	то	INTERV.	REGOV	% RECOV		REM	ARKS	
		Silty fine sand, no gray color, micace	-				WEGGV.					
		organic, damp, sli										
		plasticity	3***									
					1			<u> </u>				, u
	30.0 - 31.5	(ML) WC-63-6			 	 	<u> </u>	 				
		Same as above			 							
		III NF		-	 				ļ			
		II			_		ļ	<u> </u>				
		I		ļ	<u> </u>	<u> </u>		ļ	-			
	31.5 - 35.0	(ML) Same as above										
	35.0 36.5	(ML) WC-63-7						<u></u>				
	155.0 - 50.5	a 1	······································		···		·					
		III			, 	ASI		NO.	ΓE	<u>S</u>		
		II		FROM	TO	SIZE		R	EMAR	KS		
		I ML (Formati	on)									
	36.5 - 41.0	(ML) Same as above										
					<u>S</u> /	AMP	LIN	G N	<u>0 T</u>	ES	· · · ·	
	41.0 - 42.5	(ML) WC-63-8			AMPLER_	T. OF HAM	MER.		. DR	OP	·	
		Same as above		SMPL.				RECOV.	<u> </u>	BL	ows '	
		III			+	31.5				24	18"	24
		<u>II</u>		7		36.5				54		
		I		8	T	42.5					46	
				Ť					ato fina	-	1	
	_											
i i								1				

TIME OF OBSERV.

HOLE NO. WC-64	DATE 3/20/62	PAGE NO. 1 OF 3 PAGES
LOCATION Wilshire & Oxford Ave.	JOB NO. 6148-5	
COLLAR ELEV. 198.4	INSPECTOR R. Singh	

	GEOLO	SIC NOTES			
Depth Classification and Physical Character					
	0.0 - 1.0 Asp	halt-Concrete			
	1.0 - 5.0	(SC)			
		Clayey sand, small amount			
		of silt, light brown-grayis			
		color, slightly damp, non-			
· ·		plastic, inorganic, loose			
·					
	5.0 - 6.5	(SC) WC-64-1			
		Clayey sand - more silty			
		III Disturbed			
		II Disturbed			
		I Disturbed			
<u> </u>					
	6.5 - 1.0.0	(SM)			
		Silty sand, clayey, brown-			
		grayish color, inorganic,			
		medium dense, low plasticit			
	10.0 - 11.5	(SM) WC-64-2			
		Silty sand, clayey, as			
		above			
		III Disturbed, loose			
		II Disturbed, loose			
		I Disturbed, loose			
	11.5 - 15.0	(SC)			
	·	Clayey sand with small			
		amount of silt, damp, medium			
		dense, inorganic, light			
		brown-grayish color, low			
		plasticity			
	15.0 - 16.5	(SC) WC-64-3			
		Same as above			
		III Disturbed			
		II Disturbed			
		I Disturbed			

BORING NOTES								
	-	Meth e5		Auge	er			
Ang	lev	<u>ertic</u>	al	_ Bea	ring			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
'			,					

:	С	ASI	ING NOTES
FROM	ΤO	SIZE	REMARKS
			No casing
		<u></u>	

	SAMPLING NOTES									
TYPE S	TYPE SAMPLER Split-Tube SIZE 21 WT. OF HAMMER 140 16 DROP 3011									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L (WS	24"		
1	5.0	6.5	1.5		1	2	4			
		11.5			6	16	33			
3	15.0	16.5	1.5		1.0	27	45			
o.										

GROUND WA	TER OBSE	RVATIONS
DEPTH OF HOLE	25.0	
DEPTH TOWATER	20.0	
TIME OF OBSERV.	10:15 PM	3/20/62

HOLE NO. WC-64	DATE3/20/62	PAGE NO. 2 OF 3 PAGES
LOCATION Wilshire & Oxford Ave.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Singh	

GEOLOGIC NOTES						
Cla	ssifiçati	ion and Physical Character				
16.5	<u>- 20.0</u>	(SM)				
<u> </u>		Silty sand, dense, light				
<u> </u>		brown color, clayey, in-				
↓		organic, some coarse gravel				
		mixture, low plasticity				
20.0	<u>- 21.5</u>	(SM) WC-64-4				
		Silty sand, dense				
<u> </u>	·	III				
		II				
		<u>I</u> :				
 		/ \				
21.5	<u>- 25.0</u>					
		Silty sand, some medium				
<u> </u>	 	grained sand about 20%,				
 		light brown color, dense,				
		low plasticity				
1050	2/ /	(and the City				
25.0	<u>- 20.5</u>					
 		III				
		<u>II</u>				
		I				
26.5	= 30.0	(SM)				
		Silty sand, clayey, dense,				
T	· · · · · · · · · · · · · · · · · · ·	damp, inorganic, slight				
		plasticity				
30.0	- 31 . 5	(SM) WC-64-6				
		Silty sand becoming coarse				
	<u> </u>	gray wet sand at about 31.0				
		III				
		II				
		I				
1						
<u> </u>						
	20.0 21.5 25.0	Classification 16.5 - 20.0 20.0 - 21.5 21.5 - 25.0 25.0 - 26.5				

2021112 110750									
BORING NOTES									
Drilling MethodAuger									
Hole	e Siz	e 51	!						
l .				Bea	ring				
Ally	16			- Deu	iiiy				
FROM	то	INTERV.	RECOV.	% R E COV.	REMARKS				
			i ya esa						
					i				
					,				

	С	ASI	NG	NOTES	
FROM	то	SIZE	,	REMARKS	
-					
			.,		· · · · · · · · · · · · · · · · · · ·

SAMPLING NOTES									
TYPE SAMPLER DROP DROP									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L ()WS	24"	
4	20.0	21.5	1.5		6	15	31		
		26.5			6	17	32		
6	30.0	31.5	1.5		3	10	24		
,									
			1						
		1							

GROUND WA	TER	OBSERVATI	QNS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-64	DATE $\frac{3/20/62}{}$	PAGE NO. 3 OF 3 PAGES
LOCATION Wilshire & Oxford Ave.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Singh	

COLLAR	ELEV.	INSPECTOR_E	≀. Sin	gh	i	_					
	GEOLO	SIC NOTES		E	BORI	NĠ	NO.	TE	s		
Depth		ion and Physical Character	Ho	illing le Siz gle	e <u>5</u> °	1					
	31.5 - 35.0 35.0 - 36.5	(SW) Gravelly sand, sand is coarse grained and about 60%, small amount of silt, very damp, gray color, in- organic, non plastic (SW) WC-64-7 Same as above becoming clayey silt (ML), gray color at 36.5° III	FROM	Ť	1	RECOV.		,	REM	Ţ	
	36.5 - 40.0 40.0 - 41.5	II (ML) Clayey silt, damp, dense, gray color, micaceous, in- organic, low plasticity (ML) WC-64-8 III	FROM	то	SASI		R	EMARI	KS		
		II	1 [SAMPLER.		MER		DR	0 P		
		I ·	SMPL NO.	FROM	то	INTERV	REGOV.	6"	BL(WS	24"
	41.5 - 47.0 47.0 - 48.5	(ML) Clayey silt, damp, dense, gray color, micaceous, low- slight plasticity (ML) WC=64-9 Same as above but more damp III	7 8 9		36.5 41.5	1.5 1.5		10 9	1	40 40 47	
		I		OUNE		TER	OBS	ER	VA ⁻	<u> </u>	NS
			1 INCOTE	0E 401	•	1					

TIME OF OBSERV.

HOLE NO	DATE	March 7, 1962	PAGE	NO OF_	L PAGES
LOCATIONWilshire and Serrano					
COLLAR ELEV. 204.0	INSPECT	ORR. J. Sco	tt	<u>-</u>	

		INSPECTO					N G	NO.	ΓΕ		
Depth		on and Physical Charac	ter		ling		o d	Aug			
	0.0 - 0.5	Concrete						_ Bea	ring		
	0.5 - 5.0	(ML) Inorganic sandy s brown, damp, 10% sand, earthy odor, low consi ency		FROM	ТО	INTERV.	REGOV.	% R E GOV.		REM	ARKS
	5.0 - 6.5	(ML) WC-65-1 Inorganic silt, gray tyellow-green, slightly damp, dense, no consisency or dry strength III Disturbed II Disturbed I Disturbed I Disturbed									
	6.5 - 10.0	(SM) Sandy-silt mixtur light gray to gray, sl ly damp	ight	FROM	С	A S I			MAR		
	10.0 - 11.5	(SM) WC-65-2 Interbeded sand and silight gray to gray, sl	lt.		S A	MP	LIN	Nor G N		ES	
		ly damp.		TYPE SA	MPLER_	Sp.1 r. of hami	it ti MER IL	G N	DR:	op_3(<u>O11</u>
		Silt strata are almost clean silt and the san strata is coarse to fi weathered, angular grawith little fines III OK II OK I OK	d ne ,	1 2	FROM 5.0	το 6.5	INTÉRV.	REGOV.	9	25° 23	1e" 116 37

1									
1									
1									
1									
] '			L	L	<u> </u>		· · · · · · · · · · · · · · · · · · ·		
	GRC	UND	WA	TER	OBS	ER	VAT	ΓI <u>Ο</u>	NS
	DEPTH	OF HOLE	E	1					

DEPTH OF WATER TIME OF OBSERV.

HOLE NO. WC-65	DATEMarch 7, 1962 PAGE NO. 2 OF 4 PAG	ES
LOCATION Wilshire and Serrano	JOB NO. 6148-5	
COLLAR ELEV	INSPECTOR_R. J. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	15.0 - 16.5 (ML) WC-65-3
	Inorganic silt, olive-green
	to yellow-green, damp, no
	plasticity or dry strength
	III OK
	II CK
	I OK
	16.5 - 20.0 (ML) Same as above
	00 0 03 5 (MT) 110 (5)
	20.0 - 21.5 (ML) WC-65-4
	Inorganic sandy, silt, gra
	just slightly sandy (10%);
	damp, no plasticity, no
	dry strength
	III OK
	II OK
	I OK
	07 [07 0 (187) 0
	21.5 - 25.0 (ML) Same as above
	25.0 - 26.5 (ML) WC-65-5
	Inorganic silt; dark gray,
	damp, no plasticity, some
	light gray spots of silt i
	the darker gray mass
	III OK
	II OK
	I OK
	26.5 - 30.0 (ML) Same as above
	Total day as a series
	30.0 - 31.5 (ML) WC-65-6
	Inorganic dark gray silt
	and fine gray sand inter-
	beded, damp, no plasticity
	sand is clean
	III OK
İ	II OK
	I OK

ſ	BORING NOTES											
	Drilling MethodAuger Hole Size_6"											
l	Angle_Vertical Bearing											
	FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS						
						Auger						
ļ			ļ									
ļ	-		ļ									
l												
1	1											

	C	ASIN	G NOTES
FROM	то	SIZE	REMARKS

			<u> </u>	<u> </u>	ES								
SMPL FROM TO INTERVESCOU BLOWS													
FROM	то	INTÉRV.	REGOV.	6"	BLC 12"		24"						
15.0	16.5	1.5	1.5	5	11	22							
20.0	21.5	1.5	1.5	8	19	32							
25.0	26.5	1.5	1.5	7	18	30							
30.0	31.5	1.5	1.5	5	14	24							
	FROM 15.0 20.0 25.0	FROM TO 15.0 16.5 20.0 21.5 25.0 26.5	FROM TO INTERV. 15.0 16.5 1.5 20.0 21.5 1.5	FROM TO INTERV. RECOV. 15.0 16.5 1.5 1.5 20.0 21.5 1.5 1.5 25.0 26.5 1.5 1.5	FROM TO INTERV. RECOV. 6" 15.0 16.5 1.5 1.5 5 20.0 21.5 1.5 1.5 8 25.0 26.5 1.5 1.5 7	FROM TO INTERV. RECOV. BLC 15.0 16.5 1.5 1.5 5 11 20.0 21.5 1.5 1.5 8 19 25.0 26.5 1.5 1.5 7 18	FROM TO INTERV. RECOV. BLOWS. 6" 12" 18" 15.0 16.5 1.5 1.5 5 11 22 20.0 21.5 1.5 1.5 8 19 32 25.0 26.5 1.5 1.5 7 18 30						

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	18:
TIME OF OBSERV.	10.45 PM. 3-7-62

HOLE NOWC-65	DATE	March 7, 1962	PAGE NO	3 OF 4 PAGES
LOCATION Wilshire and Serrano	JOB NO	6148-5	_	
COLLAR ELEV.	INSPECTO	ORR. J. Sco	tt	

	GEOLOG	SIC NOTE'S
Depth	Classificati	on and Physical Character
	31.5 - 35.0	(ML) Same as above
	<u> 35.0 - 36.5</u>	(MH) VC-65-7
	 	Inorganic, blue-gray silt
		micaceous, damp, slight
		consistency
·		III Disturbed
		II OK
	-	I OK
	36.5 - 40.0	(SM) Silty sand, blue-gray
	70.0	color, 60% medium to fine
		sand, 40% silt, low
		plasticity
		<u> </u>
	40.0 - 41.5	(SM) WC-65-8
		Interbeded slightly silty
		sand and silt; blue-gray
		color, wet, loose, no con-
		sistency, sand is coarse to
		fine, angular to subangular
		grains not cemented, chief-
		ly quartz
		III OK
		II OK
		I OK
٠.	41.5 - 45.0	(SM) Same as above
	45.0 - 46.5	(SM) WC-65-9
		Sandy silt and silt inter-
	· · · · · · · · · · · · · · · · · · ·	beded, and same as above
	46.5 - 50.0	(SM) Same as above
	EO O E7 E	(SM) WC-65-10
	20.0 - 21.2	
		Same as above
		III Empty
		II ½ sample CK
L	<u> </u>	I OK

·	E	BORI	NĜ	NO.	TES
1	-	Meth e			
Ang	le			- Bea	ring
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS
		ļ			
		<u> </u>			
			ļ		
		 			
		ļ			
		<u> </u>			
<u> </u>	L				

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
			,		

TYPE SAMPLER DROP								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL0	WS	24"
7	35.0	36.5	1.5	1.3	6	15	25	
8	40.0	41.5	1.5	1.5	11	26	40	
9	45.0	46.5	1.5	1.5	10	25	47	
1.0	50.0	51.5	1.5	0.7	9	24	39	
							,	
							- 1	

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	N <u>Wilshire and Serrano</u> JOB NO. 6148- ELEV. INSPECTOR		. Sco	tt						
JOELAN	GEOLOGIC NOTES				N G	N O	TF!	<u>-</u>		
Depth	Classification and Physical Character	Dri Hol	lling e Siz	Meth e	o d	***************************************				
	51.5 - 56.0 (SM) Interbeded sand and	Ang	le			_ Bea	ring			
	silt; gray-green color, wet, sand is coarse to fine angular to subangular grains	-			T	% RECOV.		-		
	56.0 - 57.5 (SM) WC-65-11	-								
	Same as above III OK						<u> </u>			
	II OK	<u>-</u>	ļ	 	<u> </u>	 				
	I OK	<u> </u>				<u> </u>	ļ			
	T D. 57.5'				:		<u></u>			
			C	ASI	NĢ	NO T	ΓΕ	 S		
		FROM	то	SIZE		R	EMARK	(8		
· .									;	
			S /	AMP	LIN	G N	<u>0 T</u>	ES		
			AMPLER_	T. OF HAM	MER		DRI	OP		
		SMPL.				REGOV.	,	81.0	WS :	24
		11	56.0	57.5				17	29	
		 -	 	 						
Ţ										
						<u></u>	<u> </u>		<u>۔ ب</u>	
		GRO	DUND	W A	TER	OBS	ER	VAT	10	NS
			OF HOL		<u></u>					

HOLE NO. WC-66	DATE <u>3/21/62</u>	PAGE NO. 1 OF 4 PAGES
LOCATION Wilshire & Hobart Blvd.	JOB NO. 6148-5	_
COLLAR ELEV. 214.5	INSPECTOR R. Sectt	

	GEOLOGIC NOTES
epth	Classification and Physical Character
	0.0 - 0.9 Pavement & Concrete
	0.9 - 5.0 (ML)
	Light brown silt, slightly
	sandy
	5.0 - 6.5 (SM) WC-66-1
	Well graded sand and silt
*	mixture, compacted, damp,
	dense, tan to light brown
	6.5 ~ 8.0 (SM) Same as above
	8.0 - 10.0 (ML)
	Clayey silt, brown, damp
	10.0 - 11.5 (ML) WC-66-2
	Clayey silt, brown, damp,
	dense, no to low consistence
	III Disturbed
	II Disturbed
	I Disturbed
	11.5 - 15.0 (ML)
	Silt and clayey silt, brown
	damp, dense, no to low
	plasticity, few sand grains
	15.0 - 16.5 (ML) WC-66-3
	Same as above
	III OK
	II OK
	I O K
	16.5 - 20.0 (ML) Same as above
-	

BORING NOTES Drilling Method Rotary Hole Size 5" Angle Vertical Bearing REGOV. REMARKS								
0.9	66.0	65.0			Fish-Tail			
			•					
	·							
· []				

ŕ	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
0.0	3.0	5"	Surface

SAMPLING NOTES								
TYPE SAMPLER Split-Tube SIZE 2" WT. OF HAMMER 1/10 lb DROP 30"								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"			24"
1	5.0	6.5	1.5	1.0	10	25	52	
2	10.0	11.5	1.5	1.0	5	16	29	
ŋ	15.0	16.5	1.5	1.0	11	30	56	
	SMPL. NO.	TYPE SAMPLER_ SIZE 291 WT SMPL FROM 1 5.0 2 10.0	TYPE SAMPLER SDI SIZE 28 WT. OF HAM SMPL FROM TO 1 5.0 6.5 2 10.0 11.5	TYPE SAMPLER Split.—To SIZE 281 WT. OF HAMMER 17 SMPL FROM TO INTERV. 1 5.0 6.5 1.5 2 10.0 11.5 1.5	Type sampler Split-Tube size 2 *** wt. of hammer 1/0 lb SMPL FROM to interv. recov. 1 5.0 6.5 1.5 1.0 2 10.0 11.5 1.5 1.0	TYPE SAMPLER Split-Tube SIZE 2! WI OF HAMMER 1/10 1b DRO SMPL FROM TO INTERV RECOV. 6" 1 5.0 6.5 1.5 1.0 10 2 10.0 11.5 1.5 1.0 5	TYPE SAMPLER Split-Tube SIZE 281 WT. OF HAMMER 1/10 1b DROP 3: SMPL FROM TO INTERV. RECOV. 6" 12" 1 5.0 6.5 1.5 1.0 10 25 2 10.0 11.5 1.5 1.0 5 16	TYPE SAMPLER Split—Tube SIZE 281 WT OF HAMMER 1/10 lb DROP 3081 SMPL FROM TO INTERV. RECOV. 6" 12" 18" 1 5.0 6.5 1.5 1.0 10 25 52 2 10.0 11.5 1.5 1.0 5 16 29

GROUND WA	TER	OBSERVATION	S
DEPTH OF HOLE	671		
DEPTH OF WATER			
TIME OF OBSERV.			

OLE N	5			FAGE	. IV ().	. <u> </u>	F_4 PA		
OLLAR		INSPECTOR_	н. <u>s</u>	COLT		OODI	- N.Ć	N O 1	rec
Depth		OIC NOTES on and Physical Character	1.6		ling		od	Rota	
			$\prod_{i=1}^{n}$	Ang	le	Vertic	al	_ Bea	ring
	20.0 21.5	(ML) WC-66-4 Same as above		ROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
		III Disturbed	┦┢				<u> </u>		
		II Disturbed I Disturbed	北						
	21.5 - 25.0	(ML) Same as above							
	25.0 - 26.5	(ML, SW) WC-66-5	1						-
		Clayey silt, brown, damp, dense, changing to well-	\dashv						
		graded sand at 26; loose							
		angular to subangular, din	≒/ -			 			

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

26.5 - 30.0	(ML)
	Silt, brown, inorganic, dam
	medium firm, not dense,
 	micaceous
30.0 - 31.5	(ML) WC-66-6
	Same as above
	III OK
	II OK
	I OK
31.5 - 35.0	(ML) Same as above
35.6 - 36.5	(ML) WC-66-7
	Clayey silt, brown, damp,
	micaceous, dense, with poor
	graded sand, medium grain,
	loose, clean interbedded
	with the silt
	III OK

III OK OK

OK

II

type sampler Split-Tube Size 211 wt. of hammer 140 1b drop 3011									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC	WS	24	
4	20.0	21.5	1.5	1.0	6	15	30		
5	25.0	26.5	1.5	1.0	6	1.6	32		
6	30.0	31.5	1.5	1.0	5	12	24		
7	35.0	36.5	1.5	1.0	5	13	26		
			·	<u>,</u>					

GROUND WA	TER	OBSER	VATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-66	DATE <u>3/21/62</u>	PAGE NO. 3 OF 4 PAGES
LOCATION Wilshire & Hobart Blvd.	JOB NO. 61.48-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

TIME OF OBSERV.

COLLAR	ELEV	INSPECTOR_R	. Scot	it							
	GEOLO	GIC NOTES			30RI	NĠ	NO.	TES)	1	
Depth		ion and Physical Character	Ho	le Siz	Meth	ĭ					_
	36.5 - 40.0		And	gle	Vertic	al.	_ Bea	ring_			_
		Sandy silt, brown, damp	FROM	то	INTERV	REGOV.	% R E GOV.	1	REMAR	KS	
	40.0 - 41.5	(ML) WC-66-8	├ ─	 	+	-	 	 		□ #	
		Sandy silt; brown to orange	┫┣──	ļ	 	}	<u> </u>	╁			
ļ		brown color, clayey, damp,	∤}		ļ	ļ	ļ	ļ			
		micaceous, medium firm; no	┨┋	ļ	<u> </u>		<u> </u>	<u> </u>			
		consistency	 								
			4								
	41.5 - 45.0		↓		1	 	 	<u> </u>			
<u> </u>		Silt; grayish-green with	∤ }──	 	 	 	<u> </u>	 			
		some brown spots, dense,	↓		1	<u> </u>	-	 			
		damp, micaceous	┨┠	ļ			<u> </u>	<u> </u>			
·			↓			<u> </u>					
	45.0 - 46.5	(ML) WC-66-9									
ļ		Sandy silt; dark gray-green	7		 		4: 			******	
		color, very dense, micaceou	∤ {	С	ASI	NG	NO.	T F S			
ļ		10-15% medium grain sand;	FROM	То	SIZE			EMARKS			
		no consistency					 				
	46.5 - 47.5	(ML) Same as above]	<u> </u>		<u> </u>				 -	
		(m)	┨╒┈┈	S	AMP	IIN	G N	OTE	= S		
	47.5 - 48.5		TYPE S	AMPLER.	Spl	.it-T	ibe				
 		Hard sand-silt streak	SIZE_	211 w	T. OF HAM	MER_]	dī Oı	DRO			
	48.5 - 50.0	(or)	SMPL.	FROM	то	INTERV	RECOV.	6"	BLOW	8"	24
	40.5 = 50.0	(OL) Silty clay; brown to gray	8	10.0	41.5	1.5	1.0	11	29 1	52	
<u> </u>			9	15.0	46.5	1.5		24			
		color, damp	F	4	51.2				6	927	
	50.0 - 51.2	(SW) WC-66-10	1	1	T						
 	<u> </u>	Well graded sand with silt;	1	†						7	_
 		gray color, damp, well com-	1 1						\dashv		
	 	pacted; sand is angular to	1	1					\neg		
	 	subangular; micaceous	1	 	+	L	 			\dashv	
 		III OK	1	 	 		-	 	_	\dashv	
 		II OK	┧┗━━		1		L	<u> </u>			
			GD	TIME) WA	TED	OB C	EDI	/A T		10
 	 	T OK		OF HOL		1 5 17	UBS	<u> </u>	/ A	ו טָ וּ	<u> </u>
			1 [OF WAT		 -					
			1 ""	UT WAT	- N	<u> </u>					

HOLE NO. WC-66	DATE _3/22/62	PAGE NO. 4 OF 4 PAGES
LOCATION Wilshire & Hobart Blvd.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

COLLAR	ELEV	INSPECTOR_	R.	Scot	t							
	GEOLO	GIC NOTES			E	BORI	NĞ	NO	TES	5		
Depth	Depth Classification and Physical Character			Drilling Method Rotary Hole Size 5"								
	51.2 - 55.0	(SW)		Ang	jle	<i>M</i> ertic	al	_ Bea	ring			
		Well graded sand; grayish- green, damp, very micaceou loose, fairly clean, angul to subangular grains	us,	FROM	то	INTERV.	REGOV.	% R E GOV.		REMA	RKS	
	55.0 - 56.5	(SW) WC-66-11 Same as above III OK II OK I OK										
	56.5 - 60.0	(ML) Gravish-green silt, sandy, damp, micacecus	9									
	60.0 - 61.5	(ML) WC-66-12 Same as above III OK II OK		FROM	то	ASI	NG		ΓE S			
		I OK				AMP	I N.	e N				
	61.5 - 66.0	(ML) Same as above with well graded sand streaks. loose	- e «	SIZE_	AMPLER	T. OF HAM!	MER		_ DR0	O P	WS	
		angular to subangular graisilt is dense, grayish-grawith some brown spots	ins ,	11 12	60.0	56.5 61.5 67.0	1.5	1.0 1.0	12 15	12" 48 40	100)
	66.0 - 67.0	(ML, SW) WC-66-13 Same as above III NF II OK I OK										
		T.D. 67.03			OF HOL) WA	TER	OBS	ER	VAT	101	NS

HOLE NO. WC-67	DATE 3-29-62	PAGE NO. 1 OF 5 PAGES
LOCATION Wilshire & Kingsley Dr.	JOB NO. 6148-5	•
COLLAR ELEV. 221.5	INSPECTOR R. Scott	

GEOLOGIC NOTES								
Depth	Classification and Physical Character							
	0.0 - 5.0 (MI) Sandy silt; dark							
	brown, damp, 20% sand							
	(top soil), organic matter.							
	5.0 - 6.5 (SM) WC-67-1							
	Sand-silt mixture, brown,							
	dense, damp, 60-70% silt.							
	III OK							
	II OK							
	I OK							
	6.5 - 7.5. (SM) Same as above							
	7.5 -10.0 (SP) Poorly graded sand;							
	fine grain, damp & silty,							
	becoming less silty with							
	depth, also becoming damp							
	to wet, locse fine sand,							
	light brown color.							
	10.0 - 12.0 (SW) WG-67-2							
	Well graded sand, light							
	brown color, wet, loose,							
	/ III OK							
	II OK							
	I OK							
	12.0 - 15.0 (SM) Sand-silt mixture,							
	light brown color, wet,							
	coarse to fine sand at 70%							
	with some weathered coarse							
	sand grains, 30% silt.							
	1							

1	BORING NOTES										
Hole Size 5" Angle Vertical Region											
Ang	Angle_VerticalBearing										
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS						
0.0	67.0	67.0			Fish-tail						
					-						
ŧ											
i.											

CASING			NG NOTES
FROM	TO	SIZE	REMARKS
			None

	SAMPLING NOTES							
	TYPE SAMPLER DROP DROP							
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"		18"	24"
ı	5.0	6.5	1.5	1.5	6		73	
2	10.0	11.5	1.5	1.5	12	31	51	
-1								

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE] L16"
DEPTHTO WATER	11'
TIME OF OBSERV.	3:00 AM 3-29-62

HOLE NO	WC-67	DATE <u>3-29</u>	-62	PAGE NO. 2 OF 5 PAGES
LOCATION	Wilshire &	Kingsley DrJOB NO. 61	₄ 8 - 5	
COLLAR ELE	EV	INSPECTOR	R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	15.0 - 16.5 (SM-ML) WC-67-3
	Sand-silt mixture as abov
	changing to a sandy silt
	at 16 feet; silt is brown
	to red-brown color, damp
	with 25-30% well graded
	sand.
	III OK
	II OK
	I OK
	16.5 - 20.0 (SM) Sand-silt mixture,
	dark brown, dense, damp,
	45-50% well graded sand,
	50% silt well compacted
	Water level is at 9'6" (3:45 A.M.)
	20.0 - 21.3 (ML) WC-67-4
	Sandy silt; brown to
	orange-brown color, dense
	damp; 20% sand; no con-
	sistency, slight dry
i	strength.
	III NF
	II CK
	I OK
	21.3 - 25.0 (ML) Same as above
	25.0 - 26.5 (ML) WC-67-5
	Same as above except
	40-50% fine to coarse,
	angular to subangular
	grain sand.
	III OK
	II OK
	I OK
	26.5 - 27.0 (ML) Same as above

BORING NOTES Drilling Method							
	Angle Bearing						
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS		
	<u></u> .						
-							

	С	ASI	NG	NOTES
FROM	TO	SIZE		REMARKS
y .				

	SAMPLING NOTES							
	TYPE SAMPLER DROP							
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8L0	0WS	24"
3	15.0	16.5	1.5	1.5	21	61	122	
4	20.0	21.3	1.3	1.0	20	60	120	
5	25.0	26.5	1.5	1.5	22	59	95	
		-						
						····		
							-	

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	,
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-67	DATE 3-29-62	PAGE NO. 3 OF 5 PAGE
LOCATION _Wilshire & Kingsley Dr.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTE'S							
Depth	Classificat	ion and Physical Character						
	27.0 - 30.0	(SM) Sand-silt mixture,						
		brown, damp; 65% sand and						
		as above.						
	30.0 - 31.5	(SW) WC-67-6						
		Well graded sand; silty,						
		angular to subangular						
		grains, damp, well com-						
		pacted.						
		III OK						
		II OK						
		I OK						
	31.5 - 35.0	(SW & SP) Well graded,						
		silty sand grading into a						
		poorly graded sand at 33-						
		34 feet; loose, damp, sub-						
		angular grains, tan color.						
	35.0 - 36.5	(SP) WC-67-7						
		Poorly graded sand; tan						
		color, medium grain size,						
		wet, loose, not cemented.						
		III OK						
		II OK						
		I OK						
	<u> </u>							
	36.5 - 40.0	(SP) Same as above.						
·]	40.0 - 41.5	(SW) WC-67-8						
	_	Well graded sand; tan						
		color, silty, loose, wet,						
		angular to subangular						
		grains.						
		III OK						
		II OK						
		I OK						
	1.3 E 1.C O	(CU) Same as chart						
	41.5 - 45.0	(SW) Same as above.						
	1							

i	BORING NOTES						
Hole	Drilling Method <u>luger</u> Hole Size 5" Angle <u>Vertical</u> Bearing						
FROM	то	INTERV. RECOV. REMARKS					
	-						
<u> </u>	·	······································					

	С	ASI	NOTES	
FROM	TO	SIZE		REMARKS

	SAMPLING NOTES							
1	TYPE SAMPLER							
SIZE	<u> </u>	T. OF HAM	MER		_ DR	0 P	,	
SMPL. No.	FROM	то	INTERV.	REGOV.	6"	12"	JIB"	24"
6	30.0	31.5	1.5	1.5	20	61	112	
7	35.0	36.5	1.5	1.0	4	38	58	
8	40.0	41.5	1.5	1.3	2	16	51	
			;					
L	L	L,	L		Ц			

GROUND WA	TER	OBSERV	<u> ATIONS</u>
DEPTH OF HOLE	I		
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-67	DATE $\frac{3/29-30/62}{}$	PAGE NO. 4 OF 5 PAGES
LOCATION Wilshire & Kingsley Dr.	JOB NO. 6148-5	· •
COLLAR ELEV.	INSPECTOR R. Scott	·

Depth	Classification and Physical Character					
	45.0 - 46.5	(SW) WC-67-9				
		Same as above.				
		III OK				
		II OK				
		I OK				
	46.5 - 47.5	(SW) Same as above				
	47.5 - 50.0	(SM) Sand-silt mixture,				
		brown color, 70% well				
		graded sand, angular to				
		subangular grains, damp,				
		30% silt.				
	50.0 - 51.5	(SW) WC-67-10				
		Well graded sand, tan cold				
		wet, loose.				
		III NF				
		II NF				
		I OK $(\frac{1}{2}$ Tube)				
	51.5 - 53.0	(SW) Same as above.				
	53.0 - 54.0	(SM) Sand-silt mixture,				
		dark brown, clayey, damp,				
		dense, low to medium				
		plasticity, 35-40% well				
		graded sand, micaceous				
		mixture.				
·						
	54.0 - 55.0	(SM) Sand-silt mixture;				
		tan color, 75% medium and				
		coarse sand; 25% silt;				
		damp, compacted.				
	55.0 - 55.8	(SM) WC-67-11				
	1	Same as above.				
	1	III NF				
		II NF				
		I OK				

ť	8	ORI	NG	NO.	ΓES		
Drilling Method/uger Hole Size_5" Angle_Vertical Bearing							
FROM	то	INTERV.	RECOV.	% REGOV.	REMARKS		
<u>ar</u>	-						

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES							
TYPE SAMPLER								
	w	. OF HAM	MER		_ DR	0P		
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	12"	WS 18"	24"
9	45.0	46.5	1.5	1.0	2	4	8	40
10	50.0	51.5	1.5	0.4	4	11	21	
11	55.0	55.8	1.8	0.3	47	1009	•	
						1		
						† 		
						\dagger	 	<u> </u>
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					 	+-	ļ	
<u> </u>		L	L	L	<u> </u>	1	L	

GROUND WAT	<u> TER OBSERVATIONS</u>
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-67	DATE 3-29-62	PAGE NO. 5 OF 5 PAGES
LOCATION Wilshire & Kingsley Dr.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Scott	

-	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	58.0 - 61.0 (ML) Inorganic silt,						
	brown, damp, slightly						
	sandy, low plasticity,						
	micaceous.						
	61.0 - 62.5 (ML) WC-67-12						
	61.0 - 62.5 (ML) WC-67-12 Inorganic, sandy silt,						
	orange-brown color with						
-	black flecks, damp, dense,						
	micaceous, 30% sand.						
· · · · · ·	III NF						
	II NF						
	I OK						
	Tip OK NF						
	62.5 - 66.0 (ML) Inorganic silt,						
	sandy, brown color, damp,						
	30% well graded sand, some						
	orange with flecks of black.						
-	DIACK.						
	66.0 - 67.0 (ML) WC-67-13						
	Sandy silt, orange-brown						
	color with black flecks,						
	dense, damp, 30% sand.						
	III NF						
	II NF						
	I OK						
	T.D. 67'						
	Note: Water level is 9'8" down from						
	surface upon completion of						
	drilling.						
····							

	BORING NOTES								
Hole	Drilling Method_Auger Hole Size5"								
Ang	le_ ^{Ve}	rtica	ıl	_ Bea	ring				
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
, , , , , , , , , , , , , , , , , , ,									
a.									

CASING				NOTES	
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES							
	TYPE SAMPLER							
SIZE	w1	. OF HAM	MER		_ DR			
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	8 L C	WS	24"
12	61.0	62.5	1,5	0.4	7	16	31	
13	66.0	67.0	1.0	0.3	36	110		
			*					
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i,			:					
				<u> </u>	·			
								
<u> </u>	L			L., ., .,	Ц	L		L

GROUND W	ATER OBSERVATIONS
DEPTH OF HOLE	671
DEPTH TOWATER	91811
TIME OF OBSERV.	4:00 AM 3-30-62

HOLE NO. WC-68	DATE	PAGE NO. 1 OF 5 PAGES
LOCATION Wilshire & Ardmore	JOB NO. 6148-5	-
COLLAR ELEV. 227.2	INSPECTOR_R. Scott	

COLLAR	ELEV	.2 INSPECTOR	R	Sco ⁻	tt		_					
	GEOLO	GIC NOTES			E	ORI	NĞ	NO.	TE:	S		
Depth	Classificat	tion and Physical Characte	r	1	lling e Siz			Auger	2			
	0.0 - 0.7	Pavement and concrete		ı				_ Bea	ring			_
	0.7 - 5.0	(ML) Inorganic silt, tan		FROM	то	INTERV.	RECOV.	% RECOV.		REMA	ARKS	
		color, slightly sandy and	1		0.7	0.7			т.			_
		damp, earthy odor, no			T	<u> </u>			1	i-c		_
		<pre>consistency; slightly dry strength</pre>		0.7	-				F1	sh-	tal1	-
												_
	5.0 - 6.5	(ML) WC-68-1	\dashv				_					
	-	Same as above				T						
	- 	III Disturbed			 		 					
	<u> </u>	II Disturbed		ļ	 	ļ	 	ļ			+-	
		I Disturbed		<u> </u>								_
	6.5 - 10.0	(ML) Same as above		-							· · · · · ·	_
		becoming more sandy with		L	<u></u>		L	·	·			
		depth			С	ΆSΙ	NG	NOT	ГΕ:	S		
	1300 33 6	(ax) tra (0 0	-	FROM	то	SIZE		R	EMARI	(S		
	10.0 - 11.5	(SM) WC-68-2					None					_
		Silty fine sand, tan to										
		olive green color, pyriti	c,									
		damp, no consistency III Disturbed			SA	MP	LIN	G N	0 T	ES		_
		II Disturbed II Disturbed		SAMPLING NOTES TYPE SAMPLER Split-tube SIZE 211 WT. OF HAMMER 1/10 1b DROP 30'				_				
	<u> </u>	I Disturbed	\dashv									=
		I DIS curbed		SMPL. NO.	FROM	TO	INTĖRV.	REGOV.	6"	BL(18"	2
	11.5 - 15.0	(ML) Same as below			1		ſ	1.0	L.	l .		-
					1		1	1.5			37	_
	15.0 - 16.5	(ML) WC-68-3		13	15.0	16.5	1.5	1.5	5	16	31	-
		Inorganic sandy silt, tar		<u></u>			. :				<u> </u>	-
		to greenish-brown color.		<u> </u>								-
		damp, pyritic, no consis-								<u> </u>		<u>—</u>
		tency								ļ		
		III Disturbed								<u> </u>		_
	<u> </u>	II Disturbed		<u></u>					L			Ĺ.
		I Disturbed		<i></i>								
		A 3	_	_			TER	OBS	ER	VA7	<u>ΓΙΟ</u>	N
	16.5 - 20.0	(ML) Same as above			OF HOL							_
					OF WAT							
				TIME C	F OBSER	٧.						

HOLE NO	DATE3-6-62	PAGE NO. 2 OF 5 PAGES
LOCATION Wilshire & Ardmore	JOB NO. 6148=5	_
COLLAR ELEV.	INSPECTOR_R. Scott	

GEOLOGIC NOTES Depth Classification and Physical Character					
	20.0 - 21.5 (SM) WC-68-4				
	Silty sand, tan, pyritic,				
	damp, no dry strength or consistency				
	III Disturbed				
	II Disturbed				
	I Disturbed				
	2 210 001 000				
	21.5 - 23.0 (SM) Same as above				
	Exert Exert (Sity Same as above				
	23.0 - 25.0 (ML) Silt, brown, slightly				
	damp and sandy, low				
	plasticity and dry strength				
	inorganic silt				
	25.0 - 26.5 (SM) WC-68-5				
	Sand-silt mixture, gray;				
	medium and fine sand,				
	angular to subangular				
	grains, no consistency and				
	dry strength, damp (40% san				
	III OK				
	,II OK				
	I OK				
	26.5 - 30.0 (SM) Same as above				
	30.0 - 31.5 (SM & GP) WC-68-6				
	Same as above with tip of				
	sampler being (GP) well				
	graded sand, medium grain,				
	white to tan, loose, only				
	slightly damp, some finer				
	sand, trace of silt,				
	micaceous				
	III OK				
	II OK				
	I OK				

	В	ORI	NG	NO	ŢES			
	Drilling MethodAugerHole Size_5"							
				Rea	ring			
Ally				_ Deu	1111y			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
:								
^								
				<u> </u>	¥			

CASING			N G	NOTES	
FROM	то	SIZE		REMARKS	

	S A	MP	LIN	G N	0 T	ES	· · · · · · · · · · · · · · · · · · ·	
TYPE SA	type sampler Split-tube size 2" wt. of hammer 140 lb drop 30"							
SMPL. No.	FROM	TO	INTERV	RECOV.	6"	BL(18"	24"
4	20.0	21.5	1.5	1.5	9	21	41	
5	25.0	26.5	1.5	1.5	13	30_	43	
6			1.5		14	32	65	
*								
							Ť	
			i.			<u> </u>	-	
			1					

GROUND WAT	ΓER	OBSE	RVAT	IONS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO. WC-68	DATE	PAGE NO. 3 OF 5 PAGES
LOCATION Wilshire & Ardmore	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

GEOLOGIC NOTES						
Depth	Classificat	ion and Physical Character				
	31.5 - 35.0	(SM) Sand-silt mixture with				
	<u> </u>	some clean sand layers -				
		As above				
	<u> </u>					
	35.0 - 36.5	(SM) WC-68-7				
<u></u>		Same as above				
		II OK				
		1 OK				
	36.5 - 40.0	(SM) Sand-silt mixture,				
		tan to greenish-brown				
	 	color, damp, micaceous,				
	†	no consistency; zones of				
		cleaner sand interbedded, coarse to fine grain,				
	<u> </u>	weathered				
		wea die 16d				
	110-0 - 117-5	(SM) WC-68-8				
	1 4000 - 410	Same as above (60% sand)				
		III OK				
		II OK				
		I OK				
		Water at 41.0'				
ļ	41.5 - 45.0	(SM) Same as above				
	· · · · · ·	(7-1)				
	45.0 - 46.5	(SM) WC-68-9				
		Silty sand, tan to off-				
-	 	white color, micaceous, damp, no consistency or				
	1	dry strength, chiefly				
		quartz grains, coarse to				
	1	fine, weathered, angular				
		grains				
		III OK				
		II OK				
		I CK				
	46.5 - 50.0	(SM) Same as above				

•	<u> </u>	ORI	NĠ	NO.	TFC
Dri		Meth		Aug	
Hole	e Siz	e	5"		
Ang	le_Ve	ertic	al	_ Bea	ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS
:					
	l				

CASING NOTES									
FROM	TO	SIZE	REMARKS						

TYPE SAMPLER Split-tube SIZE WY. OF HAMMER 140 16 DROP 30"								
SMPL. NO.	FROM	TO	INTÉRV.	RECOV.	6"	12"	18"	24
7	35.0	36.5	1.5	1.5	14	33	60	
8	40.0	41.5	1.5	1.5	7	20	46	
9	45.0	46.5	1.5	1.5	12	3 8	85	
			·					

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH to WATER	411
TIME OF OBSERV.	2:45, 3-7-62

HOLE NO. WC-68	DATE3-8 & 9-62	PAGE NO. 4 OF 5 PAGES
LOCATION Wilshire & Ardmore	JOB NO. 6148-5	.
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	50.0 - 51.5 (SM) WC-68-10						
	Silty sand, tan color,						
	same as above;						
	60% sand - coarse to fine;						
	40% silt						
	III OK						
	II OK						
	I OK						
	51.5 - 55.0 (SM) Same as above						
	55.0 - 56.5 (SM) WC-68-11						
	Silty sand, tan color,						
	micaceous, damp, sand						
	coarse to fine, weathered						
	angular grains, no						
<u>·</u>	consistency						
	III OK						
	II OK						
	I OK						
	74 7 70 7 (SW) Ciltural annual con-						
	56.5 - 59.5 (SM) Silty sand, greenish-						
	gray, slightly damp, dense,						
	70% fine quartz sand, no consistency						
	Consistency						
	59.5 - 60.0 (SM) Same as above						
	60.0 - 61.5 (SM) WC-68-12						
	Same as above						
	61.5 - 63.0 (SP) Poorly graded clean						
	quartz sand; fine, sub-						
	rounded grains; yellowish-						
	tan color, wet, loose						
							

BORING NOTES								
Drilling Method_Auger								
l				_ Bea	ring			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
	-							
					<u> </u>			

	С	ASIN	G NOTES
FROM	то	SIZE	REMARKS

SAMPLING NOTES								
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 lb DROP 30"								
FROM	то	INTERV.	REGOV.	6"	B L (18"	24"	
50.0	51.5	1,5	1.5	15	35	58		
55.0	56.5	1.5	1.5	12	32	64		
60.0	61.5	1,5	1.5	12	30	58		
		,						
	MPLER- W1 FROM 50. 0 55. 0	MPLER Sp1 WT. OF HAM FROM TO 50. 0 51. 5 55. 0 56. 5	MPLER Split tu WT. OF HAMMER 14 FROM TO INTERV.	MPLER Split	MPLER Split Lube MT OF HAMMER 140 1b DRI	NPLER Split Lube	NPLER Split tube	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	71.21
DEPTH to WATER	41.0
TIME OF OBSERV.	

HOLE NO. WC-68	DATE3-8 & 9-62	PAGE NO. 5 OF 5 PAGES
LOCATION <u>Wilshire & Ardmore</u>	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Scott	
GEOLOGIC NOTE	S	BORING NOTES

OCATIO	N <u>Wilshire & Ardmore</u> JOB NO. 6148-5	<u> </u>							
	ELEV INSPECTORI		tt		_				
· · · · · · · · · · · · · · · · · · ·	GEOLOGIC NOTES		В	ORI	NĞ	NOT	ES		
Depth	Classification and Physical Character	1 1	lling e Siz			Auger			
	63.0 - 65.0 (SP) Same as above	Ang	jle_V	ertic	al	_ Bea	ring_		
	65.0 - 66.5 (SP) WC-68-13 Same as above	FROM	то	INTERV.	REGOV.	% RECOV.	F	EMARKS	
	III Empty								
	II 3/4 of tube full - OK I OK								
	66.5 - 70.0 (SP) Same as above with grains angular to sub-							· · · · · · · · · · · · · · · · · · ·	
	angular; some biotite and]	<u> </u>						· · · · · · · · · · · · · · · · · · ·
	a few gray, yellow and green grains of quartz,	7							· · · · · · · · · · · · · · · · · · ·
	wet, loose	 [
	70.0 - 71.2 (SP) WC-68-14								
	Same as above]		Λςι	NG	NOT	. E 0		
	III OK	FROM	То	SIZE	140		MARKS		
	I OK				1-			· · · · · · · · · · · · · · · · · · ·	
]	<u> </u>		ļ !				
		 F	SA	AMP	LINO	G N	0 T E	S	
		SAMPLING NOTE TYPE SAMPLER Split-tube SIZE 211 WT. OF HAMMER 1/10 1b DRO			2011				
		CMDI				BLOWS 24"			
		13				0.7	_		
		14	1	71.2			20	13 22 62 15	
		 	<u> </u>						
		 			<u> </u>				+
		 							
			<u> </u>	L					Т
		GRO	DUND	WA	TER	OBS	ERV	ATIC	NS
			OF HOL			1.21			

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	71.2'
DEPTH TO WATER	41.01
TIME OF OBSERV.	

HOLE NO	WC-69	DATE March 2, 5, 1962	PAGE NO OF_4 PAGES
LOCATION	Wilshire and No	rmandieJOB NO. 6148-5	-
COLLAR ELE	V215.1	INSPECTOR R. J. Scott	and Nercessian

	C NOTES
Classification	and Physical Character
0.0 - 0.5	Concrete
٥٢ ٢٥	<u> </u>
0.5 = 5.0	
5.0 - 6.5	(CL) WC-69-1
	Gray, medium plasticity,
· · · · · · · · · · · · · · · · · · ·	silty clay
<u> </u>	III CL
	ll CL
	I CI.
5.0 - 10.0	(CL) WC-69-2
2.00 - 10.0	Clay, medium plasticity,
	micaceous
	III Disturbed
	II Disturbed
·	I NF Disturbec
	(AST.) T
10.0 - 15.0	
	brown, damp, slightly sandy, slight plasticity,
	earthy odor, dull surface
15.0 - 16.5	(GW) WC-69-3
	Well graded sand, light
	tan to brown color, some
	fines, loose, damp, clean
	some zones of poorly grad
	ed sand (fine); inorganic
	II OK
	I OK
16.5 - 20.0	(ML) Sandy silt, tan,
	damp, earthy odor
·	
	Classification 0.0 - 0.5 0.5 - 5.0 5.0 - 6.5 10.0 - 15.0

BORING NOTES								
Drilling MethodAugerHole Size5"								
Ang	ie	ertic	a <u>l</u>	_ Bea	ring			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
0.0	. 5	•5			Tri-cone			
		······						
		-						
٠								
		<u> </u>	L	<u> </u>				

	С	ASI	NG NOTES	
FROM	TO	SIZE	REMARKS	
			·	
				_

	SAMPLING NOTES							
TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 140 10 DROP 30".								
SMPL.	FROM	то	INTÉRV.	RECOV.	6"	8 L	OWS	24"
1	5.0	6.5	1.5		3	8	14	
2	10.0	11.5			3	8	15	
3	15.0	16.5	1.5		17	36	60	
-								

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	4

March 2, 1962

HOLE NO	WC-69	DATE _	March 5	5, 1	.962 P	AGE	NO. 2 0	F_4	PAGES
LOCATION	Wilshire and	Normandie JOB NO.	6148-5	····					
COLLABELE	- \/	INCDECT	TOP R	т.	Scott	and	Nercessian	1	

	GEOLOGI	C NOTES
Depth		n and Physical Character
	20.0 - 21.5	(SM) WC-69-4
		Silty fine sand, tan colo
		damp, loose, no consist-
		ency and dry strength
		III OK
		II OK
		I OK
	07.0 05.0	(CM)
	21:0 - 25.0	
		Same as above becoming
		clayey at 24'
	25.0 - 26.5	(ML) WC-69-5
		Clayey silt, tan, damp,
		low plasticity, slightly
		dry strength
		III CK
		II OK
		I OK
	26.5 - 30.0	(ML) Sandy silt, brown,
		damp, earthy odor, low
		dry strength and plasti-
		city
		(201) 110 (0)
	30.0 - 31.5	(MH) WC-69-6
		Silt, dark brown, damp,
		dense, micaceous, low
		consistency, low dry
		strength, earthy odor,
		dull surface
		III Disturbed
		II Disturbed I Disturbed
	,	T DIS out bod
	31.5 - 35.0	(MH) Same as above
	<u> </u>	,,
		<u> </u>

	BORING NOTES							
Dri	Drilling Method Auger							
Hol	e Siz	е		5"	· · · · · · · · · · · · · · · · · · ·			
Ang	Angle_Vertical Bearing							
FROM	то	INTERV	REGOV.	% RECOV.	REMARKS			
		<u> </u>						
		ļ						
1								

CASING NOTES							
FROM	TO SIZE REMARKS						
			None				

SAMPLING NOTES							
TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"							
FROM	то	INTERV.	REGOV.	6"	BL()WS	24"
20.0	21.5	1.5	1.5	17	44	75	
25.0	26.5	1.5	1.5	2	6	15	
30.0	31.5	1.5	1.5	10	25	45	
			-				
	#PLER_ 211 W FROM 20.0	MPLER SPLI WT. OF HAM FROM TO 20.0 21.5 25.0 26.5	MPLER Split tut 2" WT. OF HAMMER FROM TO INTERV. 20.0 21.5 1.5 25.0 26.5 1.5	MPLER Split tube 2" wt. of HAMMER 140 1 FROM TO INTERV. RECOV. 20.0 21.5 1.5 1.5 25.0 26.5 1.5 1.5	Split tube 2" wt. 0F HAMMER 140 1b DR(FROM TO INTERV. RECOV. 6" 20.0 21.5 1.5 1.5 1.7 25.0 26.5 1.5 1.5 2	Split tube 2" wt. 0F HAMMER 140 1b DROP BLC FROM TO INTERV. RECOV. 6" 12" 20.0 21.5 1.5 1.5 1.7 44 25.0 26.5 1.5 1.5 2 6	Split tube 21 WT. OF HAMMER 140 16 DROP 30

GROUND WATER OBSERVATIONS							
DEPTH OF HOLE	31.51						
DEPTH TO WATER	30.01						
TIME OF OBSERV.	11:20 PM	3-5-62					

HOLE NO	WC-69	DATE	March 5, 19	62 PAGE	NO. 3 OF_	H PAGES
LOCATION	Vilshire a	nd NormandieJOB NO	6148-5			
COLLAR ELE	. V	INSPECT	OR_R.J.	Scott		

	1	C NOTES	<u> </u>	111
Depth	Classificatio	n and Physical Character	1 3	llin e S
	35.0 - 36. 5	(ML) WC-69-7		gle_
		Same as above, with a fine	1 1	
		tan sand strata at 34.5'-	FROM	TO
		35.0¹		
		IN OK	 	
		II OK	 	
		I OK	 	
			<u> </u>	ļ
	36.5 - 40.0	(ML) Sandy silty, gray-	ļ	ļ
		brown, micaceous, damp,		
		dense, no consistency,		
		low dry strength, dull		
		surface, earthy odor		
				†
	40.0 - 41.5	(ML) WC-69-8	L	ــــــــــــــــــــــــــــــــــــــ
		Silt, gray-green, slight-		***************************************
	<u> </u>	ly sandy, dense, slightly	1 5004	то
	<u> </u>	damp, micaceous, dull sur		
		face, no consistency and		<u> </u>
	 	dry strength		<u> </u>
		III OK	l F	S
		I OK	TYPE S	
		1 0k	3122	2"
	47.5 - 45.0	(MH) Same as above	SMPL. NO.	FRO
	7,00	(100)	7	<u>35.</u>
	45.0 - 46.3	(MH) WC-69-9	8	40.
		Same as above, looks like	9	15°
<u> </u>		some bedding dipping at	 	ļ
		60°, slightly damp	L	<u> </u>
		III OK	<u> </u>	
		II CK		ļ
		I OK		<u> </u>
	46.5 - 50.0	(ML) Same as above	L	
	4-12 20.0	() States at 80010	GRO)UN
	A Company		DEPTH	
			DEPTH	
l	1 .	,	TIME (OF OBS

<u> </u>	BORING NOTES							
Dri	Drilling Method_Auger							
i .	Hole Size5"							
1	Angle Vertical Bearing							
FROM	то	TO INTERV. RECOV. % REMARKS						
					-			
<u> </u>		ļ						

CASING NOTES							
FROM	то	SIZE	REMARKS				

	SAMPLING NOTES							
type sampler Split tube size 2" wt. of hammer 140 lb drop 30"								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L (18"	24"
7	35.0	36.5	1.5	1.5	14	40	72	
8	10.0	41.5	1.5	1.5	18	45	98	
9	45.0	46.3	1.3	1.3	21	6И	119	
			,					

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATEMarch	5, 1962	PAGE NO.	14 OF 14 PAGES
LOCATIONWilshire and Normandie	JOB NO. 6148-	<u>5</u>	-	
COLLAR ELEV.	INSPECTOR	к. J. S	cott	
GEOLOGIC NOTE	S		BORING	NOTES

COLLAR	ELEV INSPECTOR_	ĸ.	J. Sc	ott					
,	GEOLOGIC NOTES			BORI	NĠ	NO.	T E	S	
Depth	Classification and Physical Character	1 1	-	Meth		Auge: 5"	r		
	50.0 - 51.5 (ML) WC-69-10	And	gle <u> </u>	Tertic	al	_ Bea	ring		
	Same as above with a 30°	<u> </u>		INTERV.	1	%		•	
	dip on a bedding plane III OK	FROM	TO	INTERV.	REGOV.	REGOV.		REMAR	4 S
	II CK	1							
	I OK								
							<u> </u>	1	
	51.5 - 55.0 (ML) Same as above								
	55.0 - 56.0 (ML) WC-69-11]				<u> </u>			
<u></u>	Same as above]							
	III Discarded	↓	ļ	ļ		ļ			
	II CK	∤	ļ						
		┨	-						
	56.0 - 58.0 (ML) Same as above	 L	<u> </u>	ļ			<u></u>		
·		↓ ┌──	C	ASI	NG	NO.	T F	<u> </u>	
· · · · · · · · · · · · · · · · · · ·	58.0 - 59.2 (ML) WC-69-12	FROM		SIZE			EMARI		·····
	Same as above	-							
	T. D. 59.2	 							
		1	S	AMP	LIN	G N	0 T	ES	
		TYPE S	AMPLER.	АМР Sf t. of ham	lit ·	tube Uno T	h	37	711
		SHE	w	T. OF HAM	MER	1 1	≅ DR	BLOW:	
		1		TO		_	_	12" [8" 2
				51.5 56.0			11	3510	"
				59.2		1.2	26	115 60 ⁸	
		┨┝┷╧	50.0	179.2	1,2	1.0	20	00	[5
·		┨┠──	 	<u> </u>		<u> </u>			
		+					-	1	+
<u> </u>		1	<u> </u>				 		-
		1	†				 		+-
		1	1	†					+
					· · · · · · · · · · · · · · · · · · ·	<u> </u>			
		GR(DUNC) WA	TER	OBS	ER	VATI	ON:
		1	OF HOL						

TIME OF OBSERV.

HOLE NO	DATE <u>2-27-62</u>	PAGE NO. 1 OF 3 PAGES
LOCATION Wilshire & Mariposa	JOB NO. 6148-5	- -
COLLAR ELEV. 213.1	INSPECTOR Nercessian	

Depth	Classificat	ion and Physical Character
	0.0 - 1.0	Concrete
	1.0 - 3.0	Gravelly sand, fine gravel, brown colored
	3.0 - 5.0	(GM or SP) WC-70-1
		Light brown, loose, silty
		sand and gravel, non-plasti
	 	III Disturbed, discarded
		II OK
		I OK
	5.0 - 10.0	(ML) WC-70-2
	700 2000	Gray, clayey silt, micaceous
		damp
	<u> </u>	III ML
		II ML
		I ML
-,		<u> </u>
	10.0 - 15.0	(ML) WC-70-3
		Gray-yellow, cohesive,
		clayey silt, slightly
		plastic, micaceous, as
		abc ve
		III NF
		II OK
		I OK
	15.0 - 20.0	(ML) WC=70=4
		Gray-yellow, micaceous,
		clayey silt, dense
		III ML
		II ML
		I ML
	1	

<u> </u>	Е	ORI	NG	NO.	TES
ŀ	•	Meth e	od 5"	Auger	
Ang	le <u>Ve</u>	rtica	1	_ Bea	ring
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS
0.0	1.0	1.0			Tri-cone
1.0	5.4	5.3			Auger
-					
				<u> </u>	
:					

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			No casing

	S A	MP	LIN	G N	0 T	ES		
TYPE SA	MPLER	OF HAM	t-tub	e 40 11	DR	O P	30"	
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6"	BL(18"	24"
l	5.0	6, 5	1.5		8	17	26	
2	10.C	11.5			4	8	13	
3	15,0	16.5	1.5		5	14	29	
4	20.0	21.5	1.5		10	25	57	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	54.0
DEPTH TO WATER	(54-30) = 24 feet
TIME OF OBSERV.	2:30 A.M., 2-27-62

HOLE NO. WC-70	DATE	PAGE NO. 2 OF 3 PAGES
LOCATION Wilshire & Mariposa	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	20.0 - 25.0 WC-70-5
	Gray colored, dense, clayey
	silt
	III ML
	II ML
	I ML
	25.0 - 30.0 (ML) WC-70-6
	Light brown, gray, micaceous
	silt, dense
	III ML
	II ML
	I ML
	30.0 = 35.0 WC=70=7
	Same as above
	III ML
	II ML
	I ML
	35.0 - 40.0 (ML) WC=70-8
	Same as above, dense, gray
	and light brown clayey silt
	micaceous
	III NF
	II ML
	I ML
	40.0 - 45.0 (ML) WC-70-8
	Same as above
	III ML
	II ML
	I ML
	45.0 - 50.0 WC-70-10
	Same as above
	III NF
	II ML
	I ML

	В	ORI	NG	NO	ΓES
Hole	e Siz	e5	11		
Ang	lev	ertic	al	_ Bea	ring
FROM	Т0	INTERV.	REGOV.	% REGOV.	REMARKS
	· · · · · · · · · · · · · · · · · · ·				
-					n.:
<u> </u>					

	C	ASIN	IG NOTES
FROM	TO	SIZE	REMARKS

	S A	MP	LIN	3 N	0 T	ES		
TYPE SA	MPLER_	Spli of hami	tetub MER 14	e .0 1b	_ DR	OP	30"	
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"	B L (18"	24"
5	25.0	26.5	1.5		13	35	88	
6	30.0	31.5	1.5		20	52	110	
7	35,0	36.4	1.4		17	60	100	
8	40.0	41.0	1.0		21	73		
9	45.0	46.4	1.4		20	62	102	
10	50.0	51. C	1,0		25	75		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	54.0
DEPTH TO WATER	54-30 = 24 feet
TIME OF OBSERV.	2:30 A.M., 2-27-62

LOCATIO	N Wilshire & Mariposa	JOB NO.	6148-5			PAGE	E NO.	<u>3</u> ()F_	3	ΡΑ	GES
COLLAR	GEOLOGIC NOTE		10KN	erces		IORI	– N G	N O	TF	5		
Depth	Classification and Physics 50.0 - 54.0 Same as above	sical Cha	racter	Hol	lling le Siz gle Ve	Meth	o d^	uger				
1	Sampler lost No samples	t in the	hole.	FROM	то		RECOV.			REMA		

		-		FROM	С	ASI SIZE	NG		T E			
				TYPE S	AMPLER_	Spli	LIN (e				
	,			SIZE	FROM	TO TO	·	REGOV.		BLC		24"
				11	54.0	55, 3	1.3		27	T	110	
							,				;	
				DEPTH	OF HOL	E	5)4.					NS

TIME OF OBSERV.

2:30 A.M., 2-27-62

HOLE NO. WC=71

DATE 3=1=62

PAGE NO. 1 OF 2 PAGES

LOCATION Wilshire & Kenmore

JOB NO. 6148=5

COLLAR ELEV. 226.1

INSPECTOR Nercessian

	0.0 = 1.0 Concrete 1.0 = 5.0 (MH) WC-71-1 Inorganic silt, micaceous fine sandy or silty soil, gray and yellow colored III MH II MH I MH
	Inorganic silt, micaceous fine sandy or silty soil, gray and yellow colored III MH II MH
	Inorganic silt, micaceous fine sandy or silty soil, gray and yellow colored III MH II MH
	fine sandy or silty soil, gray and yellow colored III MH II MH
	gray and yellow colored III MH II MH
	III MH II MH
	II MH
	<u> </u>
	5.0 = 10.0 (MH) WC=71=2
	Same as above
	III NF, disturbed,
	discarded
	II MH
	I MH
	700 750 (20) 110 77 2
	10.0 - 15.0 (ML) WC-71-3
	Yellow clayey silt, low
	plasticity, micaceous III ML
	II ML
	I ML
	15.0 - 20.0 WC=71=4
	Same as above; yellow and
	some gray clayey silt, der
	III ML II ML
	I ML
	T M
	20.0 - 25.0 WC-71-5
	Same as above
	IV CL & ML
-	III ML
	II ML
	I ML
	I PE

		001	N Å	110	T
		ORI	NG	NO	IES
Dri	lling	Meth	od_A	uger	
	в Siz				
A = =	J. Vei	rtica	1.	Da =	-!
Ang	16			- Bea	ring
FROM	TO	INTERV.	REGOV.	% R E GOV.	REMARKS
		ļ			

5.	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
	_		No casing

•		MP			<u>0 T</u>	ES		
TYPE SA	MELER-	Spli OF HAMI	t Tub		_ DR	OP	3O 11	
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"	BL(18"	24"
1	5.0	6.5	1.5		5	14	29	
2	10.0	11.5	1.5		5	14	24	
3	15.0	16.5	1.5		7	20	34	
14		21.5	1.5		7	19	54	
5	25.0	26.5	1.5		8	21	111	
			,					

GROUND WA	TĘR	OBSERVATIONS
DEPTH OF HOLE	55.0	
DEPTH to WATER	55.0	-12.0 = 43.0 ft
TIME OF OBSERV.	9:00	P.M. 3-2-62

HOLE NO. WC=71	2-28-62 DATE <u>3-1-62</u>	PAGE NO. 2 OF 2 PAGES
LOCATION Wilshire & Kenmore	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	· ·

]	
Depth	Classification and Physical Character
	25.0 - 30.0 (ML) WC-71-6
	Yellow-brown clayey silt,
<u>_</u>	more plastic in tube III
	III ML
	II ML
	T MI:
	30.0 - 35.0 WC-71-7
	Clayey silt, brown micaceou
	damp and cohesive
	III ML
	II MI
	I ML
	35.0 - 40.0 WC-71-8
	Same as above; clayey silt,
	cohesive, brown & yellow
	III ML II ML
	I ML
	THE THE
	40.0 - 45.0 WC-71-9
	Same as above
	III ML
	II ML
	I ML
	115 0 50 0 (15) 115 57 30
	45.0 = 50.0 (ML) WC-71-10
	Same as above, very cohesiv
	clayey silt gray colored ML
	III ML
	I ML
-	***************************************
	50.0 - 55.0 (ML) WC-71-11
	Same as above
	III NF, discarded
	II ML
	I ML

	[BORI	NĠ	NO.	TES			
			Method					
Ang	le			_ Bea	ring			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
	<u></u>	<u> </u>						
	ļ 							
	[, ,			

	С	ASINO	SNOTES
FROM	TO	SIZE	REMARKS

		MP		3 N	0 T	E S		
TYPE SA	MPLER_	OD HAM	t Tub	e O 1b	_ DR	OP	3011	
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	B L (18"	24"
6	30.0	31.5	1.5		8	26	71.	
.7	35.0	36.5	1.5		14	32	63	
8	40.0	41.5	1.5		16	35	74	
. 9	45.0	46.5	1,.5		19	60	80	
10	50.0	51 ' 3"	1'-3"		21	70	100 215	
11	55.0	56.0	1.0		25	70		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	55.0
DEPTH TO WATER	55 - 12 = 43 ft
TIME OF OBSERV.	9:00 P.M. 3-2-62

HOLE NO. WC-72	DATE <u>2-24 & 26-62</u>	PAGE NO. 1 OF 3 PAGES
LOCATION Wilshire & Catalina	JOB NO. 6148-5	_
COLLAR ELEV. 237.5	INSPECTOR Nercessian	

	Classification and Physical Character
	0.0 - 0.4 Concrete
	J. J. JOHOLOGO
	0.4 - 5.0 Brown, damp, hard, slightly
	coarse, sandy silt; low
	plasticity (ML)
	5.0 - 6.5 (ML) WC-72-1
	Brown, damp, homogenous
· ··	silt, low plasticity
	III ML
	II ML
	I ML
	6.5 ~ 7.0 (ML) Same as above
	Joseph Jame as above
	7.0 - 10.0 Brown, damp, moist, slightl
	sandy, silty clay
	10.0 - 11.5 (SM) WC-72-2
	Brown, damp, silty, medium-
	coarse sand
	III SM
	II SM
	I SM
	33 f 35 0 (01) 0 1
	11.5 - 15.0 (SM) Same as above
	15.0 - 16-5 (SM) WC-72-3
	Brown, damp, silty sand
	coarse; no plasticity
	III SM
	II SM
	I SM
	16.5 - 18.0 (SM) Same as above
	18.0 - 20.0 Sandy silt, damp-moist
· ·	

	В	ORI	NĞ	NO.	TES
	lling e Siz		od	Auger	2
Ang	le	ertic	al	_ Bea	ring
FROM	то	INTERV.	RECOV.	% R E COV.	REMARKS
0,0	5 ء	5			Tri-cone
۶5	55	54.5			Auger
				1	
			<u> </u>		
1					

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
			No casing

	S A	MP	LIN	3 N	0 T	ES		
TYPE S	AMPLER_	Spl : OF HAMI	it-tu MER_l	be 40 lb	2 DR	OP	30"	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BL(18"	24"
l	5.0	6,5	1.5		5	12	21	
2	1	11.5			12	28	54	
3	15.0	16.5	1.5		9	28	ţ	
				-				
			-					

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	55 feet
DEPTH TO WATER	55.0 - 33 = 22 feet
TIME OF OBSERV.	11:00 P.M. 2-26-62

HOLE NO. WC-72	DATE	PAGE NO. 2 OF 3 PAGES
LOCATION Wilshire & Catalina	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	

COLLAR	ELEV.	INSPECTOR_	Nerces	sian							
	GEOLO	GIC NOTE'S	7	E	ORI	NG	NO.	ΓΕ			
Depth		ion and Physical Character	_ Но	illing le Siz	e6	5'					
	20.0 - 21.5	(ML) WC-72-4	_ An	gle V	<u>ertic</u>	al	_ Bea	ring			
-		Brown, damp-moist, some gray, blue gray sandy silt	FROM	то	INTERV.	RECOV.	% RECOV.		REMAR	₹KS	
		slightly plastic	<u> </u>	+	 					 -	·
		III ML	⅃ ├──		_	ļ		 			
		IJ ML	_	<u></u>			ļ	L			
		I ML	_								
			_	1							
	21.5 - 25.0	(ML) WC-72-5]				 				
		Light brown, blue	□				ļ				
		sandy clayey silt, slight				 					
		plasticity, micaceous, dam	11								
		III ML									
		II ML									
		I ML	│ ├──	 	 					:	
			¬ L	1		<u> </u>	<u> </u>				
											
	25 0 - 30 0	(ML) WC-72-6		<u>C</u>	ASI	NG	NO.	<u>ΓΕ</u> :	<u>S</u>		
	29.0 2 30.0		FROM	TO	SIZE		R	EMARI	KS		
		Light gray, yellowish-gray sandy clayey silt; fine									
		sand, slightly plastic	⊣		l	·					
		III ML - More clayey	<u> </u>		A MAD	1 1 41	C N	$\overline{\wedge}$			
		II ML	_	3/	Split	LIN	U N	<u>U I</u>	<u> </u>		
		I ML	SIZE	SAMPLER.	T. OF HAM	MER_1	0 lb	_ DR	op_301	11	
				FROM							0
	33.0	Wet, clayey silt	_ 	.,					τ		24"
			<u> </u>		1	1.5	1	7	13		
	33.5	Water	5	1		1.5	T	8	-		
] 6	-	1			4	15		
	33.0 - 35.0	(ML) WC-72-7	_	35, 0	36.5	1.5	_	7	18	38	
		Light gray, very fine sand	ـــا لــ		ļ				\bot		
		clayey silt. slight plas-							$oxed{oxed}$		
		ticity, damp-moist, as] [
		above] [
		III ML									
		II ML	7 —			·	<u></u>	<u></u>			·
		I ML	GR	OUND) WA	TER	OBS	ER	VAT	101	NS
				OF HOL		<u> </u>				<u>· 7.'</u>	

DEPTH OF WATER TIME OF OBSERV.

HOLE NO	DATE	PAGE NO. 3 OF 3 PAGES
LOCATION Wilshire & Catalina	JOB NO. 61148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	·

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	35.0 - 40.0 (ML) WC-72-8 Same as above, soft mica- ceous, clayey silt III ML II ML I ML I ML A ML LO.0 - 45.0 (ML) WC-72-9 Dark gray, heavy H ₂ S odor, dense, micaceous silt, a piece of 3 in. diameter siltstone seen in tube No. II
	III NF - Disturbed II Discarded, siltstone I ML
	45.0 - 50.0 (ML) WC-72-10 Gray-brown, dense, clayey silt; H ₂ S odor; fine sandy silt; micaceous Same as above III ML
	II ML. I ML.
	50.0 - 55.0 (ML) WC-72-11 Same as above III NF, ML II ML I ML

ć .	E	BORI	NĠ	NO.	TES
	-	Meth			
Ang	le			_ Bea	ring
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER Split-tube SIZE 211 WT. OF HAMMER 140 1b DROP 3011							
SMPL. No.	FROM	то	INTERV.	REGOV.	6"	B L C	18"	24"
8	40.0	41.5	1.5		6	Ш	29	
9	45.0	46.0	1.0		46	100		
10	50.0	51.5	1,5		13	40	97	
11	55.0	55.8	。8		27	81		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WG-73	DATE 2-23, 24, 1962	PAGE NO. 1 OF 1 PAGES
LOCATION Wilshire & Berendo	JOB NO. 6148-5	-
COLLAR ELEV. 244.5	INSPECTOR Nielson	

GEOLOGIC NOTES					
Depth	Classificati	on and Physical Character			
	0.0 - 0.4	Concrete			
	0.4 - 5.0	Brown, slightly sandy,			
		moist, clayey silt, (or silty clay) high plasticity			
		(MH or CH)			
	5.0 - 6.5	WC-73-1			
		Brown, moist, silty, med- ium to very coarse sand (SM			
		slightly gravelly (fine)			
		II OK			
		I OK			
	6.5 = 7.0	Brown, moist-damp, silty,			
		medium-very coarse sand,			
		angular-slightly gravelly (fine), no plasticity (SM)			
	7.0 - 8.0	Brown, moist, sandy (med-			
		ium∞coarse), slightly			
		<pre>clayey silt; high plasti= city (MH)</pre>			
	8.0 = 10.0	Brown, moist, silty,			
		slightly clayey, medium-to			
		very carse sand; medium			
		plasticity (SM-SC)			
	10.0 - 11.5				
	 	Brown, moist, silty, gravel			
	 	<pre>ly; medium-very coarse sand no plasticity (SM): quartz</pre>			
		pebbles to 2", 30% rounded,			
		some flat			
		III OK			
		TT OK			
		T OK			

BORING NOTES						
	Е	ORI	N G	NO.	T E S	
Dri	Drilling Method Auger					
	•	e5"				
				D	-1	
Ang	le			_ <u>Bea</u>	ring	
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS	

	С	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	

SAMPLING NOTES							
MPLER	T. OF HAMI	MER_]	10 lb	_ DR			
FROM	TO	INTERV.	REGOV.	6"	BL(WS	24"
5.0	6,5	1.5		8	19	28	
10.0	11.5	1.5		8	22	42	
	FROM	MPLER	## WT. OF HAMMER 11 FROM TO INTERV. 5.0 6.5 1.5	MPLER 110 1b MT. OF HAMMER 110 1b TO INTERV. RECOV. 5.0 6.5 1.5	MPLER MT. OF HAMMER 110 1b DRI	MPLER	MPLER 1

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-73	DATE 2-23. 24. 1962	PAGE NO. 2 OF 4 PAGES
LOCATION Wilshire & Berendo	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_Nielson	

GEOLOGIC NOTES					
Depth	Classifica	tion and Physical Character			
	11.5 - 15.0	(SM) Same as above, more			
		sandy, less gravelly from			
		141 . 151			
	15.0 - 16.5	WC-73-3			
		Brown, damp, silty, very			
		sandy gravel; no plasticity			
		quartz peobles to $\frac{1}{4}$ ", some			
		to 2" decomposed (GM)			
		III OK			
		II OK			
		I OK			
		· · · · · · · · · · · · · · · · · · ·			
	16.5 - 17.5	White clean quartz gravel;			
		some silt, pebbles coming			
		over clean and dry, $\frac{1}{2}$ " - 1"			
		rounded			
	17.5 - 20.0	Brownish gray slightly			
		damp to dry sandy silt, low			
		plasticity (ML), some medium			
		plasticity, more damp zones			
	_ 				
	20.0 - 21.5	WC-73-4			
	- 	Brown, wet-moist, silty, fir			
	_ _	sand: low-no plasticity.			
		(SP-SM) some rounded pebbles			
		5%			
		III OK			
	<u> </u>	II OK			
		I OK			
	21.5 - 23.0	(SP-SM) Same as above			
	23.0 - 25.0	Brown, moist, slightly			
		sandy, slightly clayey silt,			
		high plasticity (MH)			
1					

		ORI	NG	NO.	TES		
Dri	Drilling Method Auger						
	Hole Size 5"						
			al	_ Bea	ring		
FROM	то	INTERV.	RECOV.	% REGOV.	REMARKS		

CASING			NG	NOTES
FROM	ROM TO SIZE			REMARKS
		1	·	
		1	<u> </u>	

9 9
2
- 1
1

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-73	DATE
LOCATION Wilshire & Berendo	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	25.0 - 26.5 WC-73-5
	Brown, damp, dense, slightly
	micaceous silt or very fine
	sand; low plasticity (ML)
	III OK
	II OK
-	I OK
	26.5 - 30.0 (ML) Same as above
	
	30.0 - 31.5 WC-73-6
	Brown, damp to nearly dry
	fine sandy silt; low -
	medium plasticity (ML)
├	III OK
	I OK
	T QN
	Bedding laminations visible; high angle dip.
	31.5 - 35.0 Cuttings coming over as
	thick mud - probably some
	sidewall
	35.0 - 36.5 WC-73-7
	Thin laminations of gray to
	tan sandy silt and silty
	very fine sands - overall
 	(ML):low - medium plasticity
	III OK
	II OK
	I OK
<u> </u>	
	36.5 - 40.0 No cuttings coming out of hole
1	

	В	ORI	NG	NO.	ΓES
Drilling Method Auger Hole Size 5" Angle Vertical Bearing					
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
<u>-</u> .					
	l		<u> </u>		

	С	ASI	NG	NOTES	
FROM	ROM TO SIZE		REMARKS		
					·

	SAMPLING NOTES							
TYPE SAMPLER								
SMPL. NO.	FROM	то	INTERV.	REGOV.	4"	\$ LC	W8	24"
	25.0	26.5	1.5	÷	6	_	22	
	T	31.5		·	10	23	48	
		36.5			10	211	50	

GROUND WA	TER	OBSER	VATIONS
DEPTH OF HOLE			•
DEPTH OF WATER			
TIME OF OBSERV.			2

HOLE NO. WC-73	DATE 2-23, 24, 1962	PAGE NO. 4 OF 4 PAGES
LOCATION Wilshire & Berendo	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nielson	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	40.0 - 41.4 WC-73-8
	Brown to tan to gray
	laminations as above (ML);
	some micaceous and reddish
	III OK
	II OK
	I OK
2-24.25	
	41.4 - 45.0 No cuttings coming out of
	hole
	45.0 - 46.4 WC-73-9
	Thin laminations of various
	gray, sandy silts and silty
	very fine sand; (ML); 250
•	dip, low plasticity
	III OK
	II OK
	I OK
	46.4 - 50.0 No cuttings coming out of
	hole
	50.0 - 51.0 WC-73-10
	Dark gray, damp, slightly
	sandy, dense silt; low
	plasticity (ML); dip of 40°
	III OK
	II OK
	I OK

	BORING NOTES					
Dri	Drilling Method Auger					
Hol	e Siz	e	5"			
				_ Bea	ring	
FROM	TO	INTERV.	REGOV.	% RECOV.	REMARKS	
_						

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
		1	

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER							
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	8 L (18"	24"
8	40.0	41.4	1.4		13	42	110	
9	45.0	116.11	1.4		25	60		
10	50.0	51.0	1.0		22	86	110	
L	L	ļJ			L	L	L	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-74	DATE E. R. H. 1963	PAGE NO. 1 OF 4 PAGES
LOCATION Wilshire & N	Wew Hampshire JOB NO. 6148-5	-
COLLAR ELEV. 249.5	INSPECTOR Nielson	

sandy, slightly clayey silt (ML) 5.0 - 6.5 WC-74-1 Brown, damp, fine - sandy	·	GEOLOGIC NOTES
0.5 - 1.0 Concrete 1.0 - 5.0 Brown, damp, slightly fine-sandy, slightly clayey silt (ML) 5.0 - 6.5 WC-74-1 Brown, damp, fine - sandy silt; no plasticity (SM-ML) III OK II OK I OK 6.5 - 8.0 (SM-ML) Same as above 8.0 - 10.0 Slightly gravelly, damp, sandy silt; no plasticity (SM) 10.0 - 11.5 WC-74-2 Brown, fine gravelly, medium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK I OK 11.5 - 13.5 (SM-SW) Same as above	Depth	Classification and Physical Character
1.0 - 5.0 Brown, damp, slightly fine- sandy, slightly clayey silt (ML) 5.0 - 6.5 WC-74-1 Brown, damp, fine - sandy silt; no plasticity (SM-ML) II OK I OK 6.5 - 8.0 (SM-ML) Same as above 8.0 - 10.0 Slightly gravelly, damp, sandy silt; no plasticity (SM) 10.0 - 11.5 WC-74-2 Brown, fine gravelly, medium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK 11.5 - 13.5 (SM-SW) Same as above		.0.0 - 0.5 Asphalt
sandy, slightly clayey silt (ML) 5.0 - 6.5 WC-74-1 Brown, damp, fine - sandy silt; no plasticity (SM-ML) III OK II OK I OK 6.5 - 8.0 (SM-ML) Same as above 8.0 - 10.0 Slightly gravelly, damp, sandy silt; no plasticity (SM) 10.0 - 11.5 WC-74-2 Brown, fine gravelly, medium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK II OK II OK 11.5 - 13.5 (SM-SW) Same as above		0.5 - 1.0 Concrete
Brown, damp, fine - sandy silt; no plasticity (SM-ML) III OK II OK I OK 6.5 - 8.0 (SM-ML) Same as above 8.0 - 10.0 Slightly gravelly, damp, sandy silt; no plasticity (SM) 10.0 - 11.5 WC-74-2 Brown, fine gravelly, medium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK I OK 11.5 - 13.5 (SM-SW) Same as above 13.5 - 15.0 Brownish gray, damp to nearly dry, silty, medium		1.0 - 5.0 Brown, damp, slightly fine sandy, slightly clayey silt (ML)
6.5 - 8.0 (SM-ML) Same as above 8.0 - 10.0 Slightly gravelly, damp, sandy silt; no plasticity (SM) 10.0 - 11.5 WC-74-2 Brown, fine gravelly, medium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK I OK 11.5 - 13.5 (SM-SW) Same as above 13.5 - 15.0 Brownish gray, damp to nearly dry, silty, medium		Brown, damp, fine - sandy silt; no plasticity (SM-ML) III OK II OK
sandy silt; no plasticity (SM) 10.0 - 11.5 WC-74-2 Brown, fine gravelly, medium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK I OK 11.5 - 13.5 (SM-SW) Same as above 13.5 - 15.0 Brownish gray, damp to nearly dry, silty, medium		
Brown, fine gravelly, med- ium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK I OK 11.5 - 13.5 (SM-SW) Same as above 13.5 - 15.0 Brownish gray, damp to nearly dry, silty, medium		sandy silt; no plasticity
13.5 = 15.0 Brownish gray, damp to nearly dry, silty, medium		Brown, fine gravelly, med- ium - very coarse sandy, damp silt; gravelly, damp medium - very coarse sand; no plasticity (SM-SW) III OK II OK
nearly dry, silty, medium		11.5 - 13.5 (SM-SW) Same as above
plasticity (SP)		nearly dry, silty, medium to very coarse sand; no

	8	ORI	NG	NO.	TES
Drilling MethodAuger Hole Size5" Angle_VerticalBearing					
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS
 					
				_	

	C	ASIN	G NOTES
FROM	TO	SIZE	REMARKS

301	
BLOWS	24"
28	
	2" 10" 114 28

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NOWC-74	DATE Fat. 22, 1962	PAGE NO. 2 OF 4 PAGES
LOCATION Wilshire & New I	Hampshi re JOB NO. 51148-5	The state of the s
COLLAR ELEV.	INSPECTORNielson	-

	GEOLOGIC NOTES				
Depth	Classification and Physical Character				
	15.0 - 16.5 WC-74-3				
	Grayish tan, silty, damp,				
	fine - medium sand; ten -				
	brown, damp, gravelly sand				
	(SW-SM)				
	III OK				
	II OK				
	I OK				
	16.5 = 18.0 Tan to gray, slightly damp,				
	silty, powdery, very fine -				
	medium sand; no plasticity				
	(ML)				
	10.00.00.00.00.00.00.00.00.00.00.00.00.0				
	18.0 - 20.0 Light gray, damp, silty,				
	slightly clayey, fine sand;				
	low plasticity (SM)				
	20.0 - 21.5 WC-74-4				
	Light gray, moist - wet,				
	silty, very fine sand; no				
	plasticity (ML), got wet				
	at about 18.0				
	III OK				
·	II OK				
	I OK				
	21.5 - 24.5 (SM) Same as above				
	24.5 - 25.0 Brown, moist - damp, fine				
	sandy silt; medium - high				
	plasticity (ML MH)				
	25.0 - 26.5 WC-74-5				
	Light grayish tan, moist,				
	fine, sandy silt; no plas-				
 	ticity (ML)				
	III OK				
	II OK				
	_ OK				

			_						
	В	ORI	NG	NO.	TES				
Drilling MethodAuger									
Ang	le	Verti	cal	_ Bea	ring				
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS				

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	S A	MP	LIN	G N	0 T	ES		
TYPE SAMPLER								
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BL(WS	24"
3	15.0	16.5	1.5		9	27	1,6	
يُغُ	20.0	21.5	1.5		11	26	1,6	
		26.5	1.5		5	15	31	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	0. <u>WC-74</u>	DATE	Feb. 21, 2	2 <u>, 1962</u> PAGE	NO. $3 \text{ OF } \frac{14}{}$	PAGES
LOCATIO	N Wilshire	& New HampshireJOB N	10. <u>6148-5</u>	Printer to the Administration of the Administration of		
COLLAR	ELEV	INSPE	CTORNiel	son	_	

	GEOLOGIC NOTES
epth	Classification and Physical Character
	26.5 - 30.0 Light grayish tan, thick
	mud, slightly sandy
	30.0 - 31.5 WC-74-6
	Tan to reddish brown,
	slightly damp, slightly very fine sandy silt; lov
	plasticity, compact (ML)
	bedding plane; contacts
	about 30° dip
	III OK
	II CK
	I OK
	31.5 - 35.0 Same as above
	25 0 26 5 NO 71. 7
	35.0 - 36.5 WC-74-7 Light gray to dark gray.
	slightly clayey, damp,
	slightly fine sandy silt;
	low plasticity (ML); some
	thin 1/8" reddish lamina-
	tions - about 200 dip
	III OK
	II OK
	I OK
	36.5 - 40.0 Same as above, water from
	above causes mud to form
	in hole
	

					<u> </u>
	<u> </u>	ORI	N G	NO.	TES
Dril	lling	Meth	o d	Aug	ger
1	•	e			
1					ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS
·					

CASING NOTES								
FROM	то	SIZE	REMARKS					
		ļ.,,,						

SAMPLING NOTES										
TYPE SAMPLER 140 1b DROP 30"										
8LOWS V. 6" 12" 18" 24"	REGOV.	INTERV.	TO	FROM	SMPL. NO.					
11 27 43		1.5	31.5	30.0	6					
8 28 38			36.5		7					
		·								
		٠								

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-74	DATE Pero. 2	<u>1, 27,1</u> 962	PAGE NO	OFPAGE	:S
LOCATION Wilshire & New Har	moshir=JOB NO. 6148	3			
COLLAR ELEV.	INSPECTOR_	Nielson	· · · · · · · · · · · · · · · · · · ·		
GEOLOGIC N	IOTES		BORING	NOTES	

JULLAR	ELEV	INSPECTOR				_					
	GEOLO	GIC NOTES		E	ORI	NG	NO.	TES	<u>`</u>		
Donah		in and Bharlant Observation	Dri	lling	Meth	od	Au	ger			
Depth	Classificati	ion and Physical Character			e						
	40.0 - 41.5	WC-74-8	4 I		ertic						
		Interbedded tan, light gray	11 -		1		1				
		and dark gray silts of more	1 I	то	INTERV.	RECOV.	% RECOV.	İ	REMA	RKS	
		or less sandy content;]	<u> </u>							
		compact, slightly damp, low]								
		to medium plasticity (ML)	11								
		overall; petroliferous									
		odor in fresh break in dark	11	<u> </u>	<u> </u>			<u> </u>			
		gray zones; clear bedding	1				-	ļ			
		lamination - moderate dip	1		-						
		III OK	1								
		II OK	11					<u> </u>			
		I OK									
			1								
	41.5 - 44.0	Same as above	1	 							
] L	L	<u>.</u>						
	44.0 - 45.4	WC-74-9]		A C I	NG	1107				
		Dark gray, slightly damp,]		ASI	NO					
		slightly fine sandy silt;	FROM	ТО	SIZE		R	EMARK	<u> </u>		
		dense; low plasticity (ML);]		ļ						
		no visible bedding]			<u> </u>					
		III CK]	· · · · · · · · · · · · · · · · · · ·							
		II OK]		AMP						
		l CK	TYPE S	AMPLER. 211	T. OF HAM	M E B	1/10 1	b neo		30	
			SMPL.		1	1		<u> </u>	BLO	ws	_
				FROM	ТО	INTERV.	REGOV.	6"		18"	24"
			8	40.0	 	1.5			34	68 302	
			1 2	7474.0	45.1	1.4		14	64 ^l	2 5	
			Į 	<u> </u>			ļ				
			↓					 			
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			 	<u> </u>	<u> </u>						
			I L	.							

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-75	DATEFeb. 19, 20, 1962PAGE NO OF PAGES
LOCATION 3173 Wilshire	JOB NO. 6148-5
COLLAR ELEV. 254.8	INSPECTOR_Nielson

	GEOLOGIC NOTES							
Depth	Classification and Physical Character							
	0.0 = 5.0 Brown, damp, homogeneous							
	silty clay (CH); high							
	plasticity							
	5.0 - 6.5 (CH) WC-75-1							
	Same as above							
	IV No tube							
	III OK							
	II OK							
	I OK							
	6.5 - 8.0 Tannish brown, slightly							
	sandy, damp, slightly silty							
	clay; fat clay (CH) , high							
	plasticity							
	8.0 - 10.0 Gray-brown, damp, silty							
	clayey sand; low - medium							
	plasticity (SC); fine =							
	nedium subangular sand							
	70 0 11 ° 10 7 ° 0							
	10.0 - 11.5 WC-75-2 Tan. slightly clayey sand							
	to sand, no plasticity (SP)							
	III OK							
	II OK							
	I OK							
·····	11.5 - 15.0 (SP) Same as above with							
	some interbedded, slightly							
	clayey sand zones							
	15.0 - 16.5 WC-75-3							
	Tan, silty, gravelly sand;							
	moist, quartz and black							
	shale, gravel pebbles							
	rounded; 40% ½" maximum							
	III CK							
	II OK							
	I OK							

				11 0						
		BORI								
Dri	lling	Meth	od	Aug	er					
1	Drilling MethodAuger									
	Angle Vertical Bearing									
Ally	16		1001	- Deu	ring					
FROM	то	TO INTERV. RECOV. REMARKS								
<u> </u>		ļ <u>.</u>								
<u> </u>					-/					
		ļ			···					
	<u> </u>									
		-								
	<u> </u>									
<u></u>										

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

SAMPLING NOTES TYPE SAMPLER									
SIZE WT. OF HAMMER DROP									
SMPL. NO.	FROM	TO	INTERV.	REGOV.	RECOV. 6" 12" IE				
1	5.0	6.5	1.5		one	_	25	24"	
2	10.0	11.5	1.5		9	5ao	51		
3		16.5			16	31	70		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	An aquifer or perched
DEPTH to WATER	water between 10 and
TIME OF OBSERV.	15'

HOLE NO. WC-75	DATE Feb. 19, 20, 1962 PAGE NO. 2 OF 1 PAGES
LOCATION 3173 Wilshire	JOB NO. 6348-5
COLLAR ELEV.	INSPECTOR_Nielson

GEOLOGIC NOTES						
Depth	Classification and Physical Character					
	16.5 - 20.0 Clayey sand, low plasticity to gravelly, silty sand (SW = SM)					
	20.0 = 21.5 WC-75=4 Tan, wet, silty, gravelly, medium to coarse sand; quartz pebbles, rounded to angular, 40% 1/8"; some 1½" granite rounded III OK II CK					
	I OK 21.5 = 25.0 Tannish = brown, grayish brown, moist, silty, clayey, to very clayey, medium sand; medium = high plasticity (SC)					
	25.0 - 26.5 WC-75=5 Yellowish tan, moist to uamp to nearly dry very fine sandy silt; low plasticity (ML = CL?) III OK I OK I OK					
	26.5 = 30.0 (ML = CL) Same as above 30.0 = 31.5 WC-75-6 (ML-CL) Same as above; some more sandy zones; compact .ard; one 2" gran.pebble III NF II OK I Ck					

	E	ORI	NG	NO.	ΓES				
Dri	Drilling MethodAuger								
Hole	Hole Size5"								
Ang	le_V	ertic	al	_ Bea	ring				
FROM	FROM TO INTERV. RECOV. RECOV. REMARKS								
,									

	С	ASI	NG NOTES	
FROM	TO	SIZE	REMARKS	

SAMPLING NOTES TYPE SAMPLER									
SIZE WT. OF HAMMER DROP									
FROM	то	INTÉRV.	REGOV.	BLOWS					
20.0	21.5	1.5		17	40	67	24"		
25.0	26.5	1.5		12	33	75			
				18	49	82			
					<u> </u>				
	FROM 20.0	WPLER WT. OF HAM FROM TO 20.0 21.5 25.0 26.5	MPLER WT. OF HAMMER	### ### ##############################	MPLER	MPLER	NPLER		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-75	DATEFeb. 19, 20, 1962PAGE NO3 OF _4 PAGES
LOCATION 3173 Wilshire	JOB NO. 6148-2
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTE'S
Depth	Classification and Physical Character
	31.5 - 35.0 Tan to gray, damp, silty,
	very fine sand; low
	plasticity (SM)
	35.0 - 36.5 WC-75-7
	Tan silt, damp, and gray,
	silty, very fine sand, damp,
	low plasticity friable
	(SM-ML)
	III OK
	II OK
	I OK
	Pretty clear bedding contacts - high
	dip. Also, unconformity contact =
	Quartziferous alluvium above 351.
	36.5 - 40.0 (SM-ML) Same as above;
	Some more clayey zones;
	coming up mostly as thick
	mud
	40.0 - 41.5 WC-75-8
	Interbedded, tan, damp,
	fine sandy silt and gray
	and black silty clay; both
	low - medium plasticity;
	no odor, ML-CL 20° dip
	III OK
	1I OK
	I OK
	41.5 - 45.0 Tan, fine - medium, sandy,
	thick mud
· · · · · · · · · · · · · · · · · · ·	
	The second secon
	
	

	BORING NOTES								
Drilling MethodAuger Hole Size5"									
Ang	le	Vertj	cal	_ Bea	ring				
FROM	FROM TO INTERV. RECOV. REMARKS								

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
·.			

	SAMPLING NOTES								
TYPE SAMPLER BYT. OF HAMMER DROP									
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L C	WS 18"	24"	
7	35.0	36.5	1.5		9	23	Ш		
8			1.5		9	24	48		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-75	DATE Feb. 19, 20, 1962PAGE NO. 4 OF 4 PAGES
LOCATION 3173 Wilshire	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson
OFOLOGIO NOT	DODING NOTES

	GEOLO	GIC NOTES			ВО	RI	NG	NO.	TES	S	
Depth	Classifica	tion and Physical Cha	ITACTOT II	rillir lole S	•		o d	Aug 5"	er		
	45.0 - 46.4		1 1	ingle.	Ve	rti	cal	_ Bea	ring		
		Dark gray, damp, fine sandy in zones, silt; some possible shell for ments; strong petrolicerous odor (fresh breezons odor)	rag-	T MC	O INT	ERV.	REGOV.	% R E GOV.		REMA	RKS
		10° dip (ML) 111 OK 11 OK T OK									
	46.4 - 48.0	Tan thick mud, slight sandy	ly								
	48.0 - 49.4	Same as above			C A	SI	NG	NO	T E S	3	
		I OK	FRO	OM T	0 51	ZE		R	EMARK	s	
				E SAMPL	ER		LIN(
							INTERV.		6"	BLO	WS
			10				1.4		18 17	63 60	110
	<u> </u>		—— -	\dashv							

DEPTH OF HOLE DEPTH OF WATER TIME OF OBSERV.

HOLE NO. WC-76	DATE	PAGE NO. 1 OF 5 PAGES
LOCATION Wilshire & Westmoreland	JOB NO. 6148-5	-
COLLAR ELEV. 258.1	INSPECTOR R. J. Scott	<u> </u>

GEOLOGIC NOTES					
Depth	Classification and Physical Character				
	0.0 - 0.7 Pavement & Concrete				
	0.7 - 5.0 (SM) Sand-silt mixture,				
	light brown color, clayey,				
	damp, low consistency, 40%				
	sand				
					
	5.0 - 6.5 (SM) WC-76-1				
	Same as above				
	III Disturbed				
 	II Disturbed				
	I Disturbed				
	6.5 - 7.0 (SM) Same as above				
	20 300 (CD) Boomly ameded fine				
	7.0 - 10.0 (SP) Poorly graded fine				
	sand, tan color, damp,				
	loose, clean (little fines)				
	angular to subangular				
	grains				
	10.0 - 11.5 (SP) WC-76-2				
	Same as above				
	III Disturbed				
	II Disturbed				
	I Disturbed				
	Water at 14.0°				
	11.5 - 15.0 (SP) Same as above				
	15.0 - 16.5 (SP) WC-76-3				
	Same as above but wet				
	III OK				
	II OK				
	I OK				

	BORING NOTES								
Drilling Method									
Ang	le	ertic	ат	_ Bea	ring				
FROM	TO INTERV. RECOV. RECOV. REMARKS								
0.0	0.7				Tri-cone				
0.7					Auger				
Samp.	Le ev	ery 5	feet						

CASING			NOTES
FROM	то	SIZE	REMARKS
			None

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 140 lb DROP 30"							
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L C	18"	24"
1	5.0	6.5	1.5	1.5	8	18	29)
2	10.0	11.5	1.5	1.5	6	15	21	
3	15.0	16.5	1.5	1.5	7	17	29	
			-					
1								
<u> </u>	L				<u> </u>		لسبسا	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	14'
TIME OF OBSERV.	9:30 PM, 3-12-162

HOLE NO. WC-76	DATE <u>March 9, 1962</u>	PAGE NO. 2 OF 5 PAGES
LOCATION Wilshire & Westmoreland	JOB NO. 6148-5	•
COLLAR ELEV.	INSPECTOR R. J. Scott	*************************************

	GEOLOGIC NOTES					
Depth	Classification and Physical Character					
	16.5 - 20.0 (SW) Well graded sand, yel-					
	low-tan color, wet, loose,					
	angular grains; 80% sand,					
	20% silt					
	20.0 - 21.5 (SW) WC-76-4					
	Same as above					
	III OK					
	II OK					
	I OK					
	1 00					
	Tube I and tip is (GM) gravel-sand-silt					
	mixture, tan to mustard color, loose,					
	damp, 75% gravel and sand angular to					
	subrounded grains; 25% silt					
	21.5 - 25.0 (SW) Well graded tan col-					
	ored sand interbedded with					
	½" stringers of yellow-					
	tan colored gravel-sand-					
	silt mixture; loose, wet,					
	fine gravel is rounded;					
	sand is angular to sub-					
	angular; stringer is 10%					
	fine gravel, 65% sand and					
	25% silt					
<u> </u>	25.0 - 26.5 (SW) WC-76-5					
	Same as above					
 -	_II OK					
	II OK					
	I OK					
	2(f 20 0 (ml) g					
	26.5 - 28.0 (SW) Same as above					
	28.0 - 30.0 (ML) Very fine sand, yel-					
	low-tan to white, damp,					
	dense					

f	BORING NOTES								
Drilling Method Auger Hole Size 5"									
Ang	le	ertic	al	_ Bea	ring				
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
	ļ								
					· · · · · · · · · · · · · · · · · · ·				
		ļ							
		ļ							

	С	ASIN	IG NOTES	
FROM	то	SIZE	REMARKS	

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER Split tube SIZE WT. OF HAMMER 140 Lb DROP 3011							
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L (IB"	24"
4	20.0	21.	1.5	1.5	11	23	39	
5	25.0	26.5	1.5	1.5	16	39	57	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-76	DATE March 12, 1962	PAGE NO. 3 OF 5 PAGES
LOCATION Wilshire & Westmoreland	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR R. J. Scott	

Depth Classification and Physical Character					
	30.0 - 31.5	(ML) WC-76-6			
		Same as above			
		III OK			
		II OK			
		I OK			
	31.5 - 35.0	(ML) Same as above, with			
		fine gravel and sand, 20%			
		of mass			
	25 0 26 0	(MT) NO 74 7			
	35.0 = 30.0	(ML) WC=76=7			
		Yellow-tan, clayey silt,			
	 	with light to dark gray			
		clayey spots which are			
		abundant in gypsum crystals; damp, dense, no consist-			
		ency			
		III CK			
		II OK			
		I OK			
	36.5 - 40.0	(ML) Clayey silt, yellow-			
		tan to brown, damp, dense,			
		with some rust colored fine			
		sand stringers, no consist-			
	-	ency, earthy odor			
	40.0 - 41.5	(ML) WC-76∞8			
	42000 420	Same as above			
		III OK			
		II OK			
		I OK			
····	41.5 - 43.0	(ML) Same as above			
	1				

	BORING NOTES							
Drilling MethodAuger Hole Size5"								
Ang	le	ertic	al	_ Bea	ring			
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS			
					Auger			

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
		<u> </u>	 -	······································	

	S A	MP	LIN	3 N	0 T	ES		
TYPE SA	type sampler Split tube size 2" wt. of hammer 140 lb drop 30"							
SMPL. No.	FROM	то	INTERV.	RECOV.	6"	8 L (W\$	24"
6	30 . 0	31.5	1.5	1.5	6	16	26	
7			1.0		9	45		
8	40.d		1.5		1 <i>L</i> i	39	87	
							.,	

GROUND WA	TER	OBSE	RVAT	IONS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO. WC-76	DATE <u>March 13, 19</u> 62	PAGE NO. 4 OF 5 PAGES
LOCATION Wilshire & Westmoreland	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR_R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	43.0 - 43.0 (ML) Inorganic black silt; micaceous, damp; with light gray fine ½" sand stringers about 3" apart and having a dip of 20°, no consistency and slight dry strength
	45.0 - 46.5 (ML) WC-76-9 Same as above III OK II OK I OK
	16.5 - 50.0 (ML) Dark brown silt, mi- caceous, damp, dense, no consistency, sligh, H ₂ S odor
	50.0 - 51.5 (ML) WC-76-10 Same as above with a light gray 1 sand stringer and a light brown 1 silt stringer dioping at 20° through the sample; also, a one inch fine gray sand strata with a strong H2S odor III OK II OK I OK
	51.5 - 55.0 (ML) Same as above 55.0 - 56.5 (ML) WC-76-11 Same as above with H ₂ S odor III OK II JK 1 OK

	E	ORI	NG	NO.	ΓES	
Dril	Drilling Method Auger					
		e		5"		
Ang	leV	erti	cal	_ Bea	ring	
FROM	ТО	INTERV.	RECOV.	% RECOV.	REMARKS	
					Auger	
		ļ				
					-	

	C	ASI	NG	NOTES
FROM	TO	8126		REMARKS

	S	AMP	LIN	G N	0 T	ES		
TYPE S	2h w	T. OF HAM	MER	Spl 40 lb	it t	ube	30"	
SMPL. NO.	FROM	10	INTERV.	RECOV.	8"	BLC	WS	84"
9	45.0	46.5	1,5	1.5	7	17	31	
10	50.0	51.5	1.5	1.5	18	55	11:	
11	55.0	56.5	1.5	1.5	17	50	110	
				L			,	
		·						

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	N <u>Wilshire &</u> ELEV			NO. 6148-5		+.							
COLLAR		GIC NOT		PECTUR			ORI	n G	NO.	TE			
Depth		tion and Ph		Character	1	lling e Siz							
	56.5 - 60.0			ve except	Ang	jle <u>Ve</u>	rtica	al	_ Bea	ring			
	60.0 - 61.2	(MI) Dark		nicaceous	FROM	то	INTERV.	RECOV.	% RECOV.		REM	ARKS	
	00.0 - 01.2	silt, damp											
		H ₂ S odor,	slight	consist-		<u> </u>		ļ	ļ				
		ency III OK					<u> </u>	<u> </u>	<u> </u>				
		II OK	-		<u> </u>			1					
		I OK											
	T.D. 61.2										w.		
	1.D. OL.2	 								<u> </u>			
		-											
 													
					FROM		ASI	NG				·	
<u> </u>	<u> </u>				FROM	TO	SIZE		R	EMARI	(8		
			<u>-</u>										
ļ					TYPE S	AMPLER		LIN		OT it †			
					SIZE 2	₩1	. OF HAMI	MER	140 1	b DRO	op_3	O ¹¹	
					SMPL. NO.	FROM	TO		RECOV.	-	15.	18"	24
					12	60.0	61.2	1.2	1.2	30	76	114	
<u> </u>		, 	 										
	 												
ļ		· · · · · · · · · · · · · · · · · · ·			<u> </u>	ļ							
			W1							ļ	<u> </u>		
													
L	L								1 .	1	1		

TIME OF OBSERV.

HOLE NO. WC-77	DATE _3-13-62	PAGE NO. 1 OF 4 PAGES
LOCATION Wilshire and V	Wilshire Pl.JOB NO. 6148-5	·
COLLAR ELEV. 259.7	INSPECTOR R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 5.0 Pavement and Concrete
	1.0 = 5.0 (ML) Inorganic, sandy
	silt, light brown, damp,
	no consistency
ļ	
ļ	5.0 = 6.5 (ML) WC-77-1
	Inorganic silt; brown to
	yellowish brown color,
	slightly damp, crumbles
	III OK disturbed
 	II OK disturbed
	I OK disturbed
	(f 70.0 (cw) 5::31
	6.5 - 10.0 (SM) Fine silty sand,
	red-brown color, dry,
	loose, fine to very fine
	grain
	10.0 - 11.5 (SM) W C-77-2
	Very fine, silty sand,
	red-brown turning to dark
	reddish-brown at 11 ft.,
	loose, dry, no consistency
	III OK
	II OK
	I OK
	11.5 - 15.0 (SM) Very fine silty
	reddish-brown to black
	sand, same as above with
	some fine sand grains,
	petroliferous odor
	Water at 15.0
	15.0 - 16.5 (SM) WC-77-3
	Same as above
	III Empty
	II Empty
	I Part of Tube (Oily)

<u> </u>	В	ORI	NG	NO	ΓES
Drilling Method_Auger Hole Size5" Angle_Vertical Bearing					
Ang	le_ve	SL.C.T.C.	3.1.	_ Bea	ring
FROM	TO	INTERV.	REGOV.	% REGOV.	REMARKS
0.0	1.0				Tri-cone
1.0	Ç.NO				Auger
	ļ				·
					744

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

SMPL.						BLO	OWS_	
NO.	FROM	TO	INTERV.	REGOV.	6"	12"	18"	24
1	5.0	6.5	1.5	1.5	9	23	45	
2	10.0	11.5	1.5	1.5	12	25	58	
3	15.0	15.2	0.2	0.2	37/2			
						ļ	 	<u> </u>

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-77	DATE	PAGE NO. 2 OF 4 PAGES
LOCATION Wilshire & Wilshire Pl.	JOB NO. 6148-5	_
COLLAR ELEV. 259.7	INSPECTOR_R. Scott	

	GEOLOGIC NOTES	· · · · · · · · · · · · · · · · · · ·
epth	Classification and Physical Cha	racter
	16.0 - 17.0 Hard layer	
	16.5 - 18.0 (SM) Dark red-brown	
	sand-silt mixture, t	
	loose, petroliferous	s odor,
	slightly sticky	
	18.0 - 20.0 (SM) Oil-sand; black	c with
	petroliferous odor,	
	than above, angular	
	subangular grains, s	
-	(Repetto formation)	OTOWA 9
	(neperto formation)	· · · · · · · · · · · · · · · · · · ·
	20.0 - 20.5 (SW) WC-77-4	
	Well graded sand, da	ark
	brown color, petroli	
	oder, sticky; (oil s	
	III Empty	
	II OK	<u> </u>
	I OK	
	20.5 - 25.0 (SM) Dark red-brown,	
	silty sand, 60% sand	
	petroliferous odor,	
	(oil sand) loose	
	1	
	25.0 - 26. (SP) WC-77-5	
	Oil Sand - poorly gr	aded
	sand; dark red-brown	
	mostly fine grain so	
	grain sand and fine	
	Petroliferous odor,	
	IV OK	D OLORY
	III OK	
	I OK	
	I OK	
	200 (07)	
	26.5 - 30.0 (SP) Same as above	

	E	ORI	NG	NO.	TES
Drilling Method Auger Hole Size 5" Angle Vertical Bearing					
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS
					Auger
				i	

	С	ASING	NOTES
FROM	TO	SIZE	REMARKS

TYPE S	MPLER_	Spli	LIN(е			20.11	
	V1 W1	OF HAM	MER	40 It	<u> DR</u>			
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	12"	IS"	24"
4	20.0	20.5	0.5	0.5	85			
5	25.0	26.5	1.5	1.5	17	45	92	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-77	DATE _3-13-62	PAGE NO. 3 OF 4 PAGE
LOCATION Wilshire & Wilshire Pl.	JOB NO. 6148-5	-
COLLAR ELEV. 259.7	INSPECTOR_R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	30.0 - 31.5 (ML) WC-77-6
	Green silt, micaceous,
	with inclusions of
	asphaltic sand as above;
	damp
	III OK
	II OK
	I OK
	31.5 - 35.0 (MH) Blue-gray, micaceous
ļ	silt, damp, with $\frac{1}{4}$ " to $\frac{1}{2}$ "
 	brown silt and red-brown
	fine sand (asphaltic)
	strata dipping at 25°
	running through the blue-
	gray silt, silt is dense
 	with no consistency,
	(sand is micaceous)
	35.0 - 36.5 (MH) WC-7?-7
	Same as above
	III OK
	II OK
	I OK
	36.5 - 40.0 (MH) Same as above
	40.0 - 41.5 (MH) WC-77-8
	Same as above, bedding
	plane dipping at 250 and
	breaks along fine sand
ļļ	stringers dipping at 25°
	III OK
ļ	II OK
	I OK
	
]	

-		BORI	NG	NO	TES
Dril Hole	lling		od		
Ang	le			_ Bea	ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS
					Auger
		<u> </u>			

	C	<u>; A S I</u>	NG	NOTES	
FROM	TO	SIZE		REMARKS	

TYPE S	SAMPLING NOTES YPE SAMPLER Split—tube 1ZE 211 WT. OF HAMMER 1/10 1b DROP 3011							
SMPL.	FROM	то	INTERV.	· · · · · · · · · · · · · · · · · · ·	6"	BLC		24
6	30.0	31.5	1.5	1.5	19	40	71	
7	35.0	36.5	1.5	1.5	15	T	72	
8	40.0	41.5	1.5	1.5	17	40	82	
							,	
	<u> </u>		<u> </u>					

GROUND W	ATER OBSERVATIONS
DEPTH OF HOLE	
DEPTH to water	Water dripping in at
TIME OF OBSERV.	15

HOLE NO. WC-77	DATE 3-13-62	PAGE NO. 4 OF 4 PAGES
LOCATION Wilshire & Wilshire Pl.	JOB NO. 6148-5	
COLLAR ELEV. 259.7	INSPECTOR_R. Scott	· ·

	GEOLOGIC NOTES					
Depth	Classification and Physical Character					
	41.5 - 45.0 (MH) Greenish-gray,					
,	micaceous silt, slightly					
	damp with some fine sand					
	stringers, dipping at					
	about 25°; no consistency,					
	earthy odor					
	45.0 - 46.5 (MH) WC-77-9					
	Same as above					
	III OK					
	II OK					
	I OK					
	46.5 - 50.0 (MH) Same as above with					
	fine fractures with fine					
	sand; slightly damp					
	50.0 - 51.5 (MH) Same as above					
····	III OK					
	II OK					
	I OK					
	51.5 - 55.0 (MH) Same as above					
	55.0 - 56.5 (MH) WC-77-11					
	Greenish-gray, micaceous					
	silt; slightly damp, with					
	fine sand stringers dipp-					
	ing at 25°, no consistency					
	III OK					
	II OK					
	I OK					
	1 011					
	T.D 56.5					
	Note: Fluid level was at 51' upon					
	completing hole but water is					
	dripping in at about 15' and					
	will fill the hole to at least					
	this level					
	OTITO TOACT					

	BORING NOTES					
Hole	Drilling Method Auger Hole Size 5" Angle Vertical Bearing					
Ang	le	2 010	*	_ Bea	ring	
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS	
					·	
	· · · · · · · · · · · · · · · · · · ·			***		

	С	ASIN	IG NOTES
FROM	TO	SIZE	REMARKS

	S A		LIN		0 T	E S		
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL0	IS"	24"
9	45.0	46.5	1.5	1.5	18	76	110	5
10	50.0	51.5	1.5	1.5	19	45	107	
11	55.0	56.5	1.5	1.5	21	55	149	
			,					
						1		······································
						1		
L	<u> </u>						لسيبيا	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	1
TIME OF OBSERV.	

HOLE NO. WC-78	DATE 3-14-62	PAGE NO. 1 OF 3 PAGES
LOCATION Wilshire & Commonwealth	JOB NO. 6148-5	_
COLLAR ELEV. 215.2	INSPECTOR_R. Singh	

	GEOLOGIC NOTES				
Depth	Classificati	on and Physical Character			
	0 - 1.0	Concrete-asphalt			
		(-2) 2-			
	1.0 - 5.0	(SC) Clayey sand, grayish-			
		brown color, gravelly, damp, inorganic, no			
		consistency			
		·			
	5.0 - 6.5	(ML) WC-78-1			
		Clayey silt, dark gray			
		color, damp, inorganic,			
		gravelly			
		III Empty.			
_ _		II Disturbed			
		I Disturbed			
	65 - 70.0	(ML) Clayey silt, dark			
	0.7 - 10.0	gray to brownish color,			
		gravelly, damp, inorganic,			
		low plasticity			
	10.0 - 11.5	(ML) WC-78-2			
		Clayey silt, dark gray,			
		slight plasticity			
		III Disturbed			
		II Disturbed			
		I Disturbed			
	11.5 - 15.0	(ML) Clayey silt, dark			
·	11.07 - 17.00	Clayey silt, dark gray			
		color, micaceous, in-			
		organic, damp, slight			
		plasticity			
	15.0 - 16.5	WC-78-3 No sample			
	16.5 - 20.0	(ML) Clayey silt with			
		coarse sand mixture; sand			
		is about 30% inorganic,			
		damp, well graded, medium			
		hard			

	В	ORI	NG	NO	TES	
Drilling Method_Auger Hole Size_5** Angle_Vertical_Bearing						
FROM	TO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	% RECOV.		

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			None

	S A	MP	LIN	G N	0 T	E S		
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 110 1b DROP 30"								
SMPL. NO.	FROM	TO	INTÉRV.	RECOV.	6"	B L (OWS	24"
1	5.0	6.5	1.5		3	6	9	
2	10.0	11.5	1.5		3	4	7	
3	15.0	16.5	1.5		2	6	14	NS

GROUND W	ATER OBSERVATION	S
DEPTH OF HOLE	40.0	
DEPTH TO WATER	17.0	
TIME OF OBSERV.	11:00 PM 3-14-62	

HOLE NO. WC-78	DATE 3-14-62	PAGE NO. 2 OF 3 PAGES
LOCATION Wilshire & Commonwealth	JOB NO. 6148-5	-
COLLAR ELEV. 245.2	INSPECTOR_R. Singh	

GEOLOGIC NOTES							
Depth	Classificati	on and Physical Character					
	20.0 - 21.5	WC-78-4 No sample					
		(10 01) 07 × 71					
	20.0 = 25.0	(ML-SW) Clayey silt with					
		coarse sand mixture, sand					
		is about 30% damp, in-					
		Of ganic					
<u> </u>	25.0 - 26.5	(ML) WC-78-5					
	1	Clayey silt, light brown to					
		grayish color, brown					
		vertical bedding, dense					
		III					
		II NF					
		I					
	26.5 - 30.0	(ML) Clayey silt, dark					
		gray color, micaceous,					
		damp, slight plasticity,					
ļ		inorganic					
 	20 0 23 5	WC-78-6 No sample					
	30.0 - 31.5	MC=10=0 NO Sample					
 -	31.5 - 33.0	(ML) WC-78-6A					
 	<u> </u>	Clayey silt, gray color,					
		micaceous, pungent odor,					
		probably minute organic					
		matter, damp					
		III					
		II					
		I					
 -	33.0 - 35,0	(ML) Clayey silt as above					
		with strong pungent odor					
	1						
	35.0 - 36.5	WC-78-7 No sample					
 	25 0 10 0	(not) ()					
 	35.0 - 40.0	(ML) Clayey silt, gray color, micaceous, pungent					
		odor, minute organic mat-					
 		ter, slight plasticity, damp					
		ner 2 strain brasereres orgit					

	lling	BORI Meth	od		TES
					ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
		<u> </u>	

TYPE SA	MPLER	Split	L I″N (≃t₁ube	;				
SIZE SMPL. NO.	FROM	TO	MER	RECOV.		BLC	WS	
<u>но.</u> Д		21.5		REGOV.	6" 5	13	23	NS
5		26.5			3	8	13	
6	30.0	31.5	1.5		12	30	75	NS
6A	31.5	33.0	1,5		21	64	122	
7	35.0	36.5	1.5		32	54	75	NS
					<u> </u>			
			!		ļ	ļ		
			L	<u> </u>		<u> </u>		<u> </u>

GROUND W	TER	OBSERVA	<u>TIONS</u>
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

	ELEV. 215.2						11 0				
1	GEOLOGIC NOTES	<u> </u>		<u> </u>					_		
Depth	Classification and Physi	cal Character	Uri Hai	lling e Siz	Metn	0 a	····	·			
	40.0 - 41.5 (ML) WC-78-8		Δnc	312 31e	·		Bea	rina			
	Same as abov										
	III		FROM	то	INTERV.	RECOV.	REGOV.	Į	REM	IRKS	
	II					<u> </u>		 		 -	
	<u> </u>			 			<u> </u>				
				 			l				
		·		 		<u> </u>	 	 			
								ļ			
						<u> </u>	<u> </u>	<u> </u>		*	
<u> </u>							<u> </u>				
				 		<u> </u>					
			· · · · · · · · · · · · · · · · · · ·			<u> </u>					
				<u>. </u>		ļ 	l	<u> </u>			
ļ				С	ΔSI	NG	NO	ſ F	S		
			FROM	то	SIZE			EMARI			
								-			
					MP	LIN	G N	<u>0 T</u>	E S		
			SIZE	AMPLER	OF HAM	MER		_ DR			
			SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	B L C		24
			8	40.0	41.5	1.5		10	45	93	
											_
				ļi					ļ	ļ	-
				ļ							-
 -									l		
-				 		*					
					L						_
			·								
											
				DUND		TER	OBS	ER	VA	[10	N S
			DEPTH	OF HOLE		TER	OBS	ER	<u> </u>	<u> </u>	NS

TIME OF OBSERV.

HOLE NO. WC-79	DATE <u>3-15-62</u>	PAGE NO. 1 OF 3 PAGES
LOCATION Hoover and Sunset Pl.	JOB NO. 6148-5	
COLLAR ELEV. 259.1	INSPECTOR R. Singh	· ·

GEOLOGIC NOTES						
Depth	Classification and Physical Character					
	0 - 1.0	Concrete-Asphalt				
						
	1.0 - 5.0	(SW) Sand-gravel mixture,				
		brown color, inorganic				
 		loose, dry, no consistency				
	5.0 - 6.5	(SC) WC-79-1				
		Clayey sand, brown color				
		with slight gravel mixture.				
		petroliferous				
		III Disturbed				
		II Disturbed				
	<u> </u>	I Disturbed				
	1 700	(00) 07				
	6.5 = 10.0	(SC) Clayey sand, brown				
		color, little gravel				
		mixture, gravel is coarse,				
	_	petroliferous				
	10.0 - 11.5	(SC) WC-79-2				
		Clayey sand, petroliferous,				
		dark brown color, slight				
		to zero plasticity, dry				
		III Disturbed				
		II Disturbed				
		I Disturbed				
	11.5 - 15.0	(SC) Clayey sand highly				
	<u> </u>	petroliferous, dry, non-				
		plasti c				
	15.0 - 16.5	WC-79-3				
	15.0 - 10.5					
		III				
		I				
		-				
	 					
	 					
	<u> </u>					

BORING NOTES Drilling MethodAuger Hole Size_5" Angle_Vertical Bearing						
Ang	ieve	FULC	1T	_ Bea	ring	
FROM	то	INTERV.	REGOV.	% RECOV. REMARKS		
0	1.0	1.0			Tri-cone	
1.0	54.0	53.0			Auger	
	<u></u>	<u> </u>				
	ļ					
······					•	
	ļ		-			
 .						

CASING NOTES					
FROM	TO	SIZE	REMARKS		
			No casing		

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER Split-tube SIZE 2!! WT. OF HAMMER 11:0 1b DROP 30!!							
SMPL. NO.	FROM	т0	INTERV.	REGOV.	6"	15.)WS	24"
1	5.0	6.5	1.5		5	14	25	
2		11.5			15	34	72	
3	15.0	16.5	1.5		10	31	55	
								

GROUND WA	TĘR	OBSE	RVATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.	No	water	observed

HOLE NO. WC-79	DATE <u>3-15-62</u>	PAGE NO. 2 OF 3 PAGES
LOCATION Hoover and Sunset Pl.	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR_R. Singh	

	GEOLOGIC NOTES					
Depth	Classificat	ion and Physical Character				
	16.5 - 20.0	(SC) Clayey sand, less				
		petroliferous, dry, dark				
		gray color, dense				
	20.0 - 21.5	WC-79-Li				
		III				
		II				
		I				
	21.5 - 25.0	(ML) Clayey silt, dense,				
		dry, visible vertical				
		beddings in sample at 25.0				
		dry, petroliferous				
	25.0 - 26.5	(ML) WC-79-5				
		III				
		II				
		I				
	,	(200)				
	26.5 - 30.0	(ML) Same as above				
	30.0 - 37.5	(ML) WC-79-6				
	JU - JI 65	III				
		II				
		I				
	31.5 - 35.0	(ML) Clayey silt, dense,				
		dry, faint petroliferous,				
		beddings visible, hard				
		non-plastic				
	25 0 26 0	LIC 70 7				
	35.0 - 36.0	WC-79-7 III				
		II				
		I				
-						
	36.0 - 40.0	(ML-SC) Clayey silt~sand				
		mixture, sand is medium				
		grained, dry, non-plastic				

	BORING NOTES						
Hol	Drilling Method_Auger Hole Size5" AngleVertical Bearing						
Ang	16	CT OT	Jal	- Rea	ring		
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS		
0	1.0	1.0			Tri-cone		
1.0	54.0	53.0			Auger		
				ļ			

CASING				NOTES	
FROM	то	SIZE		REMARKS	
	-	 			

	MPLER	OF HAMI	VER	· ·	_ DRC	P		_
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"		WS	24
4	20.0	21.5	1.5		11	40	86	
5	25.0	26.5	1.5		25	70	121	
6	30.0	31.5	1.5	•	34	71	217	
7	35.0	36.0	1.0		20	97		

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

	O. WC-79 ON Hoover and						PAGI	E NO.	<u>3</u> (OF_	3_	PAG	3ES
	ELEV					1							
		SIC NOT					BORI	NG	NO	T E	S		
Depth		on and Phy		racter		lling e Siz	Meth	od					
	40.0 - 41.1	(ML) WC-79-	-8		Ang	gle			_ Bea	ring			
		Same as abo	ove		FROM	то	INTERV.	REGOV.	% R E GOV.		REMA	RKS	
		I		····									
	41.1 - 45.0	(ML) Clayey		ense,									
		micaceous,	petrolife	erous,									
		dry		-						<u> </u>			
	45.0 - 46.0	(ML) WC-79	<u>_</u> 0										
		II											
}					<u> </u>	<u> </u>	<u> </u>			<u> </u>			
	46.0 - 50.0	(ML)			ſ	C	ASI	NG	NO.	TE	S		
	50.0 = 51.0	(ML) WC-79	-10		FROM	то	SIZE		*****	EMAR			
		III				<u> </u>	ļ		·····				
		II			L	1	<u> </u>	L		.=i	*****		
	_	I				S	AMP	LIN	G N	0 T	ES		
	51.0 - 54.0	(ML)				AMPLER.							
	54.0 - 54.7	(ML) WC-79	_17		SMPL.	FROM	то	INTERV.	REGOV.	6"	8 L C	18"	24"
	54.0 = 54.1	III				40.0		1.1		17		100	
		II					46.0				100		<u> </u>
		I			10		50.8				100	 	
					11	154.0	54.5	0.5	 -	100	-	. >	

GROUND W	ATER	OBSERVATI	ONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-80	DATE	PAGE N	0. <u> </u>	5_	PAGES
LOCATION Rampart & 7th Street	JOB NO. 6148-5	•			
COLLAR ELEV. 269.6	INSPECTOR_R. Singh	 			

*	GEOLO	GIC NOTES
Depth	Classificat	ion and Physical Character
	0.0 - 0.4	Concrete
	0.1: 5.0	(SC) Clayey sand, brown,
	0.4 - 5.0	sand is coarse with little
		gravel, inorganic, damp
		graver, intreamine, damp
	5.0 - 6.5	(SM) WC-80-1
		Silty sand, light brown
		color, damp, inorganic,
		low consistency
		III Discarded
	1	TT Disturbed
		I
	 	4
	6.5 - 10.0	(ML) Silty clay, dark gray
		color, dense, micaceous,
	1	inorganic, little mixture
		of gravel, slight consist-
		ency
	10.0 - 11.5	(ML) WC-80-2
	1.110.11 4.10.2	Silty clay, dark gray,
		dense - as above
		III
		II
		<u>I</u>
	11.5 - 15.0	(ML) Silty sand with small
		amount of clay, dark gray
 -		color with layer of gravel
		at 12.0' - 13.0', maximum
		size of gravel is l"
1		

Dei	BORING NOTES						
Drilling Method Rotary Hole Size 5" Angle Vertical Bearing							
FROM	TO	INTERK	REGOV.	REGOV.	REMARKS		
0.0	0.4	0.4			Tri-Cone		
0.4	66.0	65.3			Fish-Tail		
		. :	*		·		
		, , , , , , , , , , , , , , , , , , , ,					

CASING NOTES							
FROM	TO	BIZE	REMARKS				
0.0	2.5	511	Surface Collar				

TYPE S	S A	MP Spli	LIN(G N	0 T	ES		
SIZE	211 WT	OF HAM	t The	0 lb	_ DR		30 ''	
SMPL. No.	FROM	TO	INTERV.	RECOV.	4"	12"	18"	14"
1	5.0	6.5	1.5		4	8	14	
2	10.0	11.5	1.5		8	8	36	
							2	
							3	
							*	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

LOCATIO	OWC-80 ONRampart & 7th Street. ELEV	DATE3-13-6 JOB NO611/8	5		PAGE -	E NO.	_2_ OF	5_ PAGES
	GEOLOGIC NOTE	S			BORI	NĠ	NOT	ES
Depth	Classification and Phy	sical Character	Hol	e Si	z e			
	15.0 - 16.5 (ML) WC-80-		Ang	jle			_ Beari	ng
		yellowish and	FROM	то	INTERV.	REGOV.	R E GOV.	REMARKS
		cal stratifi = organic, low						

16.5 - 20.0 (ML) Clavey silt. small

III II

sistency

20.0 - 21.5 (ML) WC-80-4

amount of clay, light gray color with brown streaks. inorganic, dense, micaceous

Clayey silt as a bye

,	C	ASI	NG	NOT	FS
		T	,,,,		
FROM	TO	8122		AE	MARKS
		1			

21.5 - 25.0	(ML) Clayey silt, dark gray color with streaks of brown inorganic, damp, dense,	SIZE_	S A Ampler 211 wt	Sp.	LIN Git '' Mer 1	ibe _		OP	_	
	micaceous, low consistency	SMPL. NO.	FROM	TQ	INTERV	REGOV.	•	18")WI	84"
25 0 26 5	(ML) WC-80-5	3	15.0	16.	1.5		6	17	35	
25.0 = 20.5	Same as above	4	20.0	21.5	1.5		9	25	712	
	III	5	25.0	ء 26	1.5		6	19	35	
	IT							ļ		
AND THE RESERVE OF THE PARTY OF	T						ļ			
26.5 - 30.0	(ML) Clayey silt, dark gray									
	color, dense, damp, inor- ganic, micaceous, low con-									

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

Depth Classification and Physical Character 30.0 - 31.5 (ML) MC-50-6 Same as above TIT		GEOLO	GIC NOTE	S		E	ORI	NG	NO.	TES	<u> </u>		
Same as above	Depth	Classificat	ion and Physi	ical Character	Dri Hol	liing e Siz	Meth	od					
TIT		30.0 - 31.5			Ang] 0	<u>.</u>		_ Bea	ring.			
II						70	INTERV	PFOOU	% ************************************		a # M /	4 8 X 8	-
31.5 - 35.0 (ML) Same as above					7101		INIBAN	RECOV.	N E GGV.		N 10 10 10 10 10 10 10 10 10 10 10 10 10		
31.5 - 35.0 (ML) WC-80-7 Same as above TIT TI 36.5 - 10.0 (ML) Same as above, no change TIT II II II II II II II II													
35.0 - 36.5 (ML) WC-80-7 Same as above TIT TI TI			<u> </u>									P-00	
35.0 - 36.5 (ML) WC-80-7 Same as above TIT TI TI	,	31.5 - 35.0	(ML) Same as	above		 						·	
Same as above TIT TI TI TI TI TI TI					-	 				ļ			
Same as above TIT TI TI TI TI TI TI		35.0 - 36.5	(ML) WC-80-7			 				-			
TIT TI TI TI TI TI TI T							<u> </u>			 			
T 36.5 - 40.0 (ML) Same as above, no change										ļ			
36.5 - 40.0 (ML) Same as above, no change			II			ļ							
CASING NOTES			I							<u> </u>			
CASING NOTES													
10.0 = 11.5 (ML) WC-80=8 FROM TO SIZE REMARKS		T		above, no								•.	
			change				1						
No. 0 = 11.5 (ML) WC-80-8 Same as above no change TII TI TI TI TI TI TI						C	ASI	NG	NO	E S	Š		
TIT TIT		40.0 = 41.5			FROM	_							
TT T T T T T T T T				· · · · · · · · · · · · · · · · · · ·									
SAMPLING NOTES 11.5 - 1.5 .0 (ML) Clayev silt as above becoming more dense dark grav color, micaceous 6 30.0 31.5 1.5 11 31 88 7 35.0 36.5 1.5 11 412 73 8 40.0 11.5 1.5 27 50 100 9 15.0 16.1 1.1 18 10 100 15 18 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 10 100 15 18 1													
1.5 = 1.5 \(0 \) (ML) Clayer silt as above becoming more dense dark gray color, micaceous 1.5 \(0 - \) 1.6 \(1 \) (ML) WC=80=9 Same as above 1.11 \\ \text{TIT}													
1.5 - 1.5 0 (ML) Clayey silt as above				K TANK THE PARTY OF THE PARTY O		S/				OT	ES		
Decoming more dense dark Fram To INTERN RECOV TO INTERN TO INT		1,1.5 = 1,5.0	(M.) Clavev	silt as above	TYPE S	AMPLER.						208	
Miles Mile										_			
15.0 - 16.1 (ML) WC-80-9 7 35.0 36.5 1.5 114 12 73 117			grav color.	micaceous			_						84"
Same as above					The second section is a second	Commence of the Party of the Pa	Name of Street, or other Party of Street, or other Party or other		THE RESERVE OF THE PARTY OF THE	CV / Carrier / Carrier			
Same as above 9 5.0 16.4 1.4 18 100 160 1 1 1 1 1 1 1 1 1		15.0 = 1.6.11	(ML) WC-80-9		- CANADALITA			CJ:44		-	-	-	
II II 146.4 - 50.0 (ML) Clayey silt, dark gray dense, inorganic, micaceous,			Same as above		FR	4 00,1010				- Allowed Street	50	TOO	
I 46.4 - 50.0 (ML) Clayey silt, dark gray dense, inorganic, micaceous,				State and the st	9	_0_5نا	46.4	1.4		18	70	16"	
46.4 - 50.0 (ML) Clayey silt, dark gray dense, inorganic, micaceous,			The state of the s										
dense, inorganic, micaceous,	Account to the second s		I			<u> </u>						\longrightarrow	
dense, inorganic, micaceous,		161 500	(MT) (7)	- 2 7 4 1		ļ							
		40.4 - 50.0			·								
I I I I I I I I I I I I I I I I I I I							<u></u>			<u></u>			

DEPTH OF HOLE DEPTH OF WATER TIME OF OBSERV.

HOLE NO. WC-80	DATE3-13-62	PAGE	NO. <u>4</u> OF <u>5</u>	_ PAGES
LOCATION Rampart & 7th Street	JOB NO. 6148-5			
COLLAR ELEV.	INSPECTOR_R. Singh			*

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	50.0 - 51.3 (ML=GM) WC-80-10 Clayev silt with hard layer of gravel at 51.08
	III I
	51.3 - 55.0 (GM) Silty gravel, gravel is approximately 1" in size angular to rounded & sub- rounded interbedded with silt lavers
	55.0 = 56.5 (GM=ML) WC=80-11 Silty gravel = clavey silt. dark gray color, dense III II
	I 56.5 = 60.0 (ML) Clavev silt with a very thin layer of sand at 58.0 = 59.0%, sand is med=
	ium grained, damp, inor- garic, some pebbles sub- rounded 2" in size
	60.0 - 60.5 WC-80-12 III Empty II Discarded I Disturbed
	60.5 - 66.0 (ML) Clayey silt, more clay than above, dense, inore ganic, damp, micaceous, low to medium consistency

	ling	Meth	o d	NOT	
					ng
FROM	то	INTERV.	RECOV.	REGOV.	REMARKS
					
			·		
	Č	ASI	NG	NOT	ES

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

MPL.	FROM	TO	INTERN	RECOV.			JWI	_
NO,	PROM	TO	INTERV.	REDOV.	4"	18"	18"	_
10	50. d	51.	1 I.3		19	53	250	
11	55.0	56,	1.5		18	45	76	
12	60.0	60.	5 0, 5		50	Ref	บรล	
<u>. * 11. 80 (01.0</u>		Ac. : 1000 31111111111111111111111111111111						
Complete Company				A	*******			
**********	***********			200				-
		-			in a second second		-	_

GROUND WA	TER	OBSER	VATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV:			

	N Rampart & 7th Street					PAGE	E NO.	<u>5</u> 0	F_ <u>5</u> _	, PA (èΕ
OLLAR	GEOLOGIC NOTE						– N G	NOT	res		_
Depth	Classification and Phys	sical Charac		Dril	ling	Meth	o d		ring		
	66.0 - 67.0 WC-80-13 III II						-	- Bea		iARKS	
											_
							NG	NOT			
				FROM	TO	8126		RE	MARKS		_
			1 1		MALER_ 200 W	Sp) r. of hami to	it T) MER	G N (1be 40 1b	B (30"	_ = =
				上	56. U	67.0	1.0		24 72		_
					UND		TER	OBS	ERVA	TIO	<u></u>

HOLE NO. WC-81	DATE 2-6-62	PAGE NO. 1 OF 5 PAGES
LOCATION 7th & Carondelet Sta.	JOB NO. 6148-5	.
COLLAR ELEV. 278.h	INSPECTOR R. Singh	

Depth	Classification and Physical Character
	0.0 = 0.4 Concrete
	0.4 - 2.5 Brown sandy-gravel-clay
	mixtures
	•
	2.5 - 5.0 (GM) Gravelly sand-silt mix-
	ture, brown, low plasticity,
	damp, some angular gravel
	5.0 = 6.5 (SM) WC-81-1
	Silty fine sand, brown, in-
	organic, moist, medium dense
	III Discarded
	II
	<u>T</u>
	6,5 - 10.0 (SM) Silty fine sand, light
	brown, inorganic, medium
	dense, moist, slight
	plasticity
	10.0 - 11.5 (SM) WC-81-2
	Same as above
	III
	II
	I
	11.5 = 15.0 (SM=GM) Silty sand, light
	brown color, infrequent
	gravel mixture, damp, slight
	to low consistency, well
	graded
	15.0 - 16.5 (SM-GM) WC-81-3
	Same as above
	III
	II
	I

		001	NC	N O	TEC				
		ORI		NO.					
Dri	lling	Meth	o d	Rotar	У				
Hol	e Siz	e5	19						
	Angle_Vertical Bearing								
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS				
0	0.4				Tri-cone				
0.4	66.0				Fish-tail				
<u></u>									
			ļ						

CASING NOTES								
MARKS	TO SIZE	τo	FROM					
ollar	2.5 5"	2.5	.0_					
	2.5 511	2.5	C					

	S A	MP	LIN	3 N	0 T	ES		
TYPE SA	MPLER_ 38 w1	S) LOF HAMI	olit- mer_l	tube 40 1b	_ DRO	OP	30 ^{po}	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L	0WS	24"
1	5.0	6.5	1.5			22	44	
2	10.0	11.5	1.5			40	69	
3	15.0	16.5	1.5		L	40	64	
			-				ļ	
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			<u> </u>	
							ļ	
<u> </u>		L					L	

GROUND WA	TER	OBSER	VATI	QNS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO. WC-81	DATE 2-6-62	PAGE NO. 2 OF 5 PAGES
LOCATION 7th & Carondelet St.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR_R. Singh	

	GEOLO	DGIC NOTES						NO.		3		
Depth	Classifica	ition and Physical Characte						Rotar	У	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		 -
		(SM-ML) Light brown sand w	'			e		_ Bea				-
	10.2 = 20.0	infrequent gravel at 17.0	-	Tily				_ Deu	rilig.			_
		(ML) , dark gray silty cla		OM	то	INTERV.	REGOV.	% RECOV.		REMA	RKS	
		dense, micaceous, inorgani		. 0	0.4				Ψr:	i - co	ne	-
	20 0 27 5	(ML) WC-81-4		$\overline{}$	66.0		<u> </u>			sh-t		_
	20.0 - 21.0	Dark gray clayey silt	$\dashv \vdash$, 0 4	00.0							-
		III	1 }					-				
		II	$\neg \vdash$									_
		T							L			
												_
	21.5 - 25.0	(ML) Dark gray clayey silt	, L									
		dense, inorganic, micaceou										
		low to medium plasticity				!						_
	25.0 - 26.5	(ML) WC-81-5	\dashv L							-		
		Same as above	╗┌			A C I	NC	NOT				,
		III		1		SIZE		N O 1				-
		II		OM	TO =				EMARK			
		I .	0		2.5	_ '^'	bui	face	COT	<u> </u>		
			-11	- 1			4.7					
	26.5 - 30.0	(ML) Dark gray clayey silt										
	26.5 - 30.0	(ML) Dark gray clayey silt	1		S A	MP	LIN	G N	0 T	E S		
		same as above	1	PE SA	S.A	MP Sp	L I N	G N tube	O T	ES	30"	
		same as above'	TYI	PE SAIZE	MPLER	Sp OF HAM	MER	tube 140 11	D DRO	ρ	WS	
		same as above' (ML) WC-81-6 III	TYI	PE SAZE	MPLER WT	Sp OF HAM	MER	tube L40 11 REGOV.	D DRO	B L O	MS.	_
		same as above' (ML) WC-81-6 III II	TYI	NO.	FROM	Sp OF HAM TO	MERINTERV	tube L40 11 RECOV.	D DRO	BLO 12" 29	ws 1g" 61	
		same as above' (ML) WC-81-6 III	TYI	NO.	FROM 20.0	50 HAM TO 21.5	INTERV. 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32	ws 16" 61 73	
	30.0 - 31.5	same as above (ML) WC-81-6 III II	TYI SIZ	4 5	FROM 20.0 25.0 30.0	TO 21.5	INTERV. 1.5 1.5 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32 31	ws 1e" 61 73 58	
	30.0 - 31.5	same as above' (ML) WC-81-6 III II	TYI SIZ	4 5	FROM 20.0 25.0 30.0	TO 21.5	INTERV. 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32 31	ws 16" 61 73	
	30.0 - 31.5	same as above (ML) WC-81-6 III II (ML) Dark gray clayey silt same as above	TYI SIZ	4 5	FROM 20.0 25.0 30.0	TO 21.5	INTERV. 1.5 1.5 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32 31	ws 1e" 61 73 58	
	30.0 - 31.5	same as above (ML) WC-81-6 III II (ML) Dark gray clayey silt same as above WC-81-7	TYI SIZ	4 5	FROM 20.0 25.0 30.0	TO 21.5	INTERV. 1.5 1.5 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32 31	ws 1e" 61 73 58	
	30.0 - 31.5	same as above (ML) WC-81-6 III II (ML) Dark gray clayey silt same as above WC-81-7 Dark gray clayey silt,	TYI SIZ	4 5	FROM 20.0 25.0 30.0	TO 21.5	INTERV. 1.5 1.5 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32 31	ws 1e" 61 73 58	
	30.0 - 31.5	same as above (ML) WC-81-6 III II (ML) Dark gray clayey silt same as above WC-81-7 Dark gray clayey silt, same as above, no change	TYI SIZ	4 5	FROM 20.0 25.0 30.0	TO 21.5	INTERV. 1.5 1.5 1.5	tube L40 11 REGOV.	D DRO	BLO 12" 29 32 31	ws 1e" 61 73 58	
	30.0 - 31.5	same as above (ML) WC-81-6 III II (ML) Dark gray clayey silt same as above WC-81-7 Dark gray clayey silt,	TYI SIZ	5 6 7	FROM 20.0 25.0 30.0	21.5 26.5 31.5	Interv 1.5 1.5 1.5 1.5	tube L40 11 REGOV.	O DRO	29 32 31 31	%3 61 73 58 72	

37.5 - 41.0 (ML) Same as above, no chang

	S A	MP	LIN	3 N	0 T	ES			
TYPE SA	rype sampler Split tube size 2" wt.of hammer 140 lb drop 30tt								
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"	BLC	WS	24"	
4	20.0	21.5	1.5			29	61		
5	25.0	26.5	1.5			32	73		
6	30.0	31.5	1.5			31	58		
7	36.a	37.5	1.5			31	72		
		, 							

	GROUND WATE	R OBSERVATIONS
.	DEPTH OF HOLE	
	DEPTH OF WATER	
3	TIME OF OBSERV.	

HOLE NO. WC-81	DATE2-6-62	PAGE NO. 3 OF 5 PAGES
	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Singh	· ·
GEOLOGIC NOTE	S	BORING NOTES

	GEOLO	GIC NOTES
Depth	Classificat	tion and Physical Character
	41.0 - 42.5	(ML) WC-81-8
	<u> </u>	No change
		III
		II
		I
	1.2 5 - 1.1. 6	(ML) WG-81-9
	42.0 - 44.0	Same as above, micaceous,
		inorganic
		III (CL-MH) same as above
		II (CL_MH) same as above
	 	I (CL_MH) same as above
		1 (Charti) Same as acove
	44.0 - 45.5	(ML) WC-81-10
		Same as above, no change
		III
		II I
		I
	45.5 - 47.0	(ML) WG-81-11
		Same as above, seems to be
		getting more dense, higher
		plasticity
		III
		II
		I
	47.0 - 48.	(ML) WC=81=12
	47.0 = 40.	Same as above
		III
		II
		T
		<u> </u>
	48.5 - 49.5	(ML) WC-81-13
	<u> </u>	Samé as above, samples
		discarded
		III Discarded
		II Discarded
		I Discarded

	<u> </u>	BORI	NG	NO.	ΓES
Hole	e Siz	e			
Ang	le			- Rea	ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS
					<u> </u>

	C	ASI	NG NO	OTES	
FROM	то	SIZE		REMARKS	

	SAMPLING NOTES							
	TYPE SAMPLER DROP							
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L	0WS	24"
8	41.0	42.5	1.5			40	88	
9	42.5	44.0	1.5			42	96	
10	44.0	45.5	1.5			42	80	
11	45.5	47.0	1.5			39	92	
11 12	47.0	48.5	1.5			Įį.	80	
13	48.5	49.5	1.0		15	45		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	0. <u>WC-81</u>			2-6-26			PAGE	E NO.	_4 C)F_	5	РΑ	GE
OCATIO	N 7th & Caro	ndelet Sts.	JOB NO	6148-5									
	ELEV					gh							
	GEOLO	GIC NOTE	S			E	BORI	NG	NO.	ΤE	S		
Depth	Classificat	ion and Phys	ical Cho	aracter		lling e Siz							
	49.5 - 50.5	(Mr.) WC-81-11			Ang	jle			_ Bea	ring			
		Same as above III Discarde		ange	FROM	то	INTERV.	REGOV.	% REGOV.		REMA	ARKS	
		II				 	-	· · · · · · · · · · · · · · · · · · ·	<u> </u>				
		I				ļ							
	50.5 - 51.5	(ML) WC-81-15)										
		Same as above											
		<u> III </u>								<u> </u>			
		II				<u> </u>				_			
		I								ļ			
2-9-62	ONE COES COES COES COES COES COES COES COE												
	51.5 - 52.5	(ML) WC-81-16	·										
	_	Same as above	<u> </u>										
		III Discarde	ed		L	<u> </u>		l		<u> </u>			
		<u>II</u>				C	ASI	NG	NOT	ſ E			
		<u>I</u>			FROM	то	SIZE			EMARI			
	52.5 - 53.5	(ML) WC-81-17				<u> </u>							
		Same as above			L		<u></u>						
		III											
		II						LIN	G N	<u>0 T</u>	<u>E S</u>		
		I			SIZE	AMPLER W1	. OF HAMI	MER	·	_ DR(
	1			-	SMPL.				RECOV.		BLC		
	53.5 - 54.5					49.5			-	14	12" 41	18	2.
		Same as above) 			50.5				13	37		
	 		·····			51.5				<u></u> 15	59		
		I				52.5				25	56		
	 	<u>,L</u>				53.5				26	60		
	54.5 - 55.0	(ML)				55.0				26	82		
		Same as above	but mo	ore					-				
		dense, inorga											
	77 0 76 0		·····										
	55.0 - 56.0				65	\ .	1111		0.5.5				
	 	IlI Discarde	<u>a</u>			OUND		IER	OBS	<u>ER</u>	<u> </u>	10	<u> </u>
	 	II			DEPTH	OF HOLE	:						

TIME OF OBSERV.

GEOLOGIC NOTES Classification and Physical Characteristics 56.0 - 61.0 (ML) Same as above. dense than above 61.0 - 62.0 (ML) WC-81-20 III II 62.0 - 66.0 (ML) Same as above, much change in consi 66.0 - 67.0 (ML) WC-81-21 Same as above III II II II II II II II II	Hol	illing le Size	Meth e	o d	···			
dense than above 61.0 - 62.0 (ML) WC-81-20 III II 62.0 - 66.0 (ML) Same as above, much change in consi 66.0 - 67.0 (ML) WC-81-21 Same as above III II	S And	gle			_ Bea			
61.0 - 62. (ML) WC-81-20 III II 62.0 - 66.0 (ML) Same as above, much change in consi 66.0 - 67. (ML) WC-81-21 Same as above III II	FROM	то	INTERV.			ring.		
III II 62.0 - 66.0 (ML) Same as above, much change in consi 66.0 - 67.c (ML) WC-81-21 Same as above III II				RECOV.	% RECOV.		REMAR	KS
II 62.0 - 66.0 (ML) Same as above, much change in consi 66.0 - 67.0 (ML) WC-81-21 Same as above III II		+	1 !					
62.0 - 66.0 (ML) Same as above, much change in consi 66.0 - 67.0 (ML) WC-81-21 Same as above III III		1						
much change in consi 66.0 - 67.c (ML) WC-81-21 Same as above III II								
much change in consi 66.0 - 67.c (ML) WC-81-21 Same as above III II								
66.0 - 67.0 (ML) WC-81-21 Same as above III								
Same as above III II	y							
III								
II								
		 						
								
		C	ΔSI	NG	NOT	FS		
	FROM	- T	SIZE			EMARK		
								
		5.4	MPI	ING	G N	1 T O	- 5	
	TYPE S	SAMPLER.						
	SIZESMPL.		OF HAMA	INTERV.		_ DRO	BLOW	
	j į NO.	61.0			 		12" 1 52	6" 24"
			67.0			19	52 52	
	20							
	20 21			<u>.</u>				
			 		 	 		
			, 1			\longrightarrow		
				,				+-
				- 				
					 	;	l	

DEPTH OF WATER

HOLE NO. WC-82	DATE2-13-62	PAGE NO. 1 OF 5 PAGES
LOCATION 7th Street & Park View	JOB NO. 6148-5	_
COLLAR ELEV. 272.5	INSPECTOR_R. J. Scot	t

Depth	Classificat	tion and Physical Character
	0.0 - 0.3	Red brick
	0.3 - 1.0	Concrete
	1.0 - 3.0	Sand; coarse to fine grain, largely quartz, damp, tan
		color, inorganic, no dry strength or consistency
	3.0 - 5.0	(SM) Silty sand, tan color, medium to fine, little wet, inorganic, no consistency
	5.0 - 6.5	(SM) WC-82-1 Silty sand, light tan with
		coarse sand grains of meta- morphic rocks, very fine to medium grain
		III ok II ok
		I ok
	6.5 - 8.0	(SM) Silty sand, fine to medium grain with more coarse grain sand of meta-
		morphic origin; also a few of fine gravel size, wet, inorganic
	8.0 - 10.0	(SM) Same as above, about 10% fine gravel
	10.0 - 10.5	(SM) WC-82-2 Silty sand, fine to medium
		grain, wet, no odor , inor- ganic III ok
		II ok

Dri		OR I Meth		NO Auger				
Hole Size 5" Angle Vertical Bearing								
FROM	то	INTERV.	REGOV.	% REGOV.	R E M ARKS			
0.0	2,0				Tri-cone			
2.0	5.0				Auger			

CASING NOTES							
FROM	ΤO	SIZE	REMARKS				
			No casing				

	SAMPLING NOTES								
TYPE SA	TYPE SAMPLER Split Tube SIZE 211 WT. OF HAMMER 110 1b DROP 3011								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL(WS	24"	
1	5.0	6.5	1.5	12"	11	27	51		
2		11.5	1.5	12"	10	16	24		
, , , , , , ,									
L						L	L		

GROUND WA	TER	OBSE	RVAT	IONS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

	0. <u>WC-82</u>		DATE 2-13-62			PAGE	E NO.	2 ()F_:	<u>2</u>	PA	GES
LOCATIO	ON 7th Street	& Park View	JOB NO. 6148-5			,						
COLLAR	ELEV		INSPECTOR_R.	J, S	<u>cott</u>		_					
	GEOLO	GIC NOTE	S		E	BORI	NG	NO	TE	S		
Depth	Depth Classification and Physical Character				lling	Meth	od_A	uger				
	10.5 - 12.5	(CL) Silty cl	lay, light blue			rtica			ring			
			250 dip, damp,	FROM	то	INTERV.	RECOV.	% R E GOV.		REMA	ARKS	
		inorganic, ea	arthy odor, med- acy									
	12.5 - 14.0	(CL) Clay, da	ark brown, wet medium con-									
		sistency, inc	rganic									
	14.0 - 15.0	(ML) Clayey s	silt, gray green, nic									
	15.0 - 16.5	(ML) WC-82-3							<u> </u>			
			gray-green, nic, dense, low tency, slight		<u> </u>			<u> </u>	<u> </u>			
			dull surface,			ASI	NG	NO	ΓE:	<u>s</u>		
		micaceous (mu		FROM	TO	SIZE	ļ	R	EMARI	K 8		
		III ok		<u> </u>	 	 	 					
		II ok		L	<u> </u>	<u> </u>		··············				
		I ok			S Į	AMP	LIN	G N	ΟT	ES		
	16.5 - 20.0	(ML) Same as	above, cuttings	SIZE -	AMPLERS	Split T. of ham	TUDE	0 lb	DR	0P_3	On	
		feel a little	sandy	SMPL.		то		RECOV.		BLO	W8	24
 	10000 07 1	(MT) 140 90 1.				16.5			+	25		$\overline{}$
<u> </u>	20.0 - 21.5	(ML) WC-82-4 Same as above	<u> </u>			21.5				38	91	7
		III ok										
		II ok										
		I ok										<u></u>
	Ţ				<u> </u>	<u> </u>			<u> </u>	↓ _	<u> </u>	-
	21.5 - 25.0	(ML) Same as	above		<u> </u>	<u> </u>		ļ	ļ		<u> </u>	-
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GROUND WATER OBSERVATIONS

DEPTH OF HOLE DEPTH OF WATER

HOLE NO. WC-82	DATE 2-13-62	PAGE NO. 3 OF 5 PAGES
LOCATION 7th Street & Park View	JOB NO. 6148-5	•
COLLAR ELEV.	INSPECTOR R. J. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	25.0 - 26.5 (ML) WC-82-5
· ·	Clayey silt, gray-green,
····	dense, micaceous, low con- sistency, slightly damp
	III ok
	III ok
	I ok
	1 OK
	26.5 - 30.0 (ML) Same as above
	20.5 = 50.0 (rm) baine as above
· · · · · · · · · · · · · · · · · · ·	30.0 - 31.5 (ML) WC-82-6
<u> </u>	
	Clayey silt; green gray & dark brown strata in about
	60°-70° dip through the sam-
	ple tubes, contacts are very
	micaceous, slightly damp,
	strata are about 3/4% wide,
	dense, low consistency,
	light gray sandy spots in
	the mass
	III ok
	II ok
	I ok
	31.5 - 35.0 (ML) Clayey silt, dense,
	slightly damp and same as
	above
	35.0 - 36.5 (ML) WC-82-7
	Clayey silt, gray-green,
	very dense, micaceous
	slightly damp, low consist-
	ency, muscovite flakes, dull
	surface, 60° dip
	III . ok
	II ok
	I ok
	36.5 - 40.0 (ML) Same as above

BORING NOTES								
Drilling Method. Auger Hole Size 5"								
Angle_Vertical Bearing								
FROM	FROM TO INTERV. RECOV. REGOV. REMARKS							
31.5					Auger			
	Core	eve:	ry 5°					
					· · · · · · · · · · · · · · · · · · ·			
					· · ·			

CASING				NOTES	
FROM	ΤO	BIZE		REMARKS	

SAMPLING NOTES								
SIZE 289 WT. OF HAMMER 140 1b DROP 3018								
FROM	TO	INTERV.	RECOV.	6"	18"	0W8	24"	
25.0	26.5	1.5	12"	11	3 2	66		
30.0	31.5	1.5	12"	15	39	80		
35.0	36.5	1.5	12"	13	35	72		
	FROM 25.0 30.0	FROM TO	FROM TO INTERV. 25.0 26.5 1.5 30.0 31.5 1.5	FROM TO INTERV. RECOV. 25.0 26.5 1.5 121 30.0 31.5 1.5 128	# wt. of HAMMER 140 1b DRC FROM TO INTERV. RECOV. 6" 25.0 26.5 1.5 12" 11 30.0 31.5 1.5 12" 15	## WT. OF HAMMER 140 1b DROP 1 FROM TO INTERV. RECOV. 6" 18" 25.0 26.5 1.5 12" 11 32 30.0 31.5 1.5 12" 15 39	FROM TO INTERV. RECOV. 6" 18" 16" 25.0 26.5 1.5 12" 11 32 66 30.0 31.5 1.5 12" 15 39 80	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	No water
TIME OF OBSERV.	

HOLE NO. WC-82	DATE	PAGE NO. 4 OF 5 PAGES
LOCATION 7th Street & Park View	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR R. J. Scott	<u> </u>

· · ·	GEOLOGIC NOTES
Depth	Classification and Physical Character
	40.0 - 41.5 (ML) WC-82-8
	Clayey silt; gray-green to
	brown strata dipping at 60°
	very dense, micaceous,
	slightly damp, earthy odor,
	strata ½" to 3/4" wide; ver
	micaceous on bedding plane,
	low consistency, sandy in
	spots - small
	III ok
	II ok
	I ok
2-14-62	pag pag gag dag dag gan dan gan dan gan dan gan dan dan dan dan dan dan dan dan dan d
	41.5 - 45.0 (ML) Clayey silt, green-
	gray, very dense, slightly
	damp, micaceous (muscovite)
	low consistency
	45.0 - 46.5 (ML) WC-82-9
	Same as above
	III ok
	II ok
.]	I ok
	46.5 - 50.0 (ML) Same as above
	50.0 - 51.5 (ML) WC-82-10
	Same as above
	51.5 - 55.0 (ML) As above
	55.0 - 56.5 (ML) WC-82-11
	Same as above
	III ok
·····	II ok
-	I ok
	
	<u></u>

J, 5			_						
	BORING NOTES								
Drilling Method_Auger Hole Size_5" Angle_Vertical Bearing									
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS				
					Drive sample				
					taken every				
					51				

	С	ASI	NG	NOTES
FROM	το	SIZE		REMARKS

SAMPLING NOTES								
TYPE SAMPLER SPLIT Tube SIZE 299 WT. OF HAMMER 1/10 1b DROP 3018								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL(18"	2 4"
8	40.0	41.5	1.5	12"	16	49	100	
9	45.0	46.5	1.5	12"	15	37	69	
10	50.0	51.5	1.5	12"	15	38	75	
11	55.0	56.5	1.5	16"	17	45	84	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	No water
TIME OF OBSERV.	

HOLE NO. WC-82	DATE 2-14-62	PAGE NO. 5 OF 5 PAGES
LOCATION 7th Street & Park View	JOB NO. 6148-5	•
COLLAR ELEV.	INSPECTOR_R. J. Scott	
CEOLOGIC NOTE	c	ROPING NOTES

COLLAR	ELEV INSPECTOR_R	. J. S	Scott	 ,	_				
	GEOLOGIC NOTES			BORI	NĞ	NO.	TES		
Depth	Classification and Physical Character	1	•	Meth e_ <u>5"</u>		uger			
	56.5 - 60.0 (ML) Clayey silt, gray-green	Ang	jle <u>∀e</u> :	rtica	1	_ Bea	ring		
	with some gray strata (\frac{1}{2}") 600 dip, very dense, mica-	FROM	то	INTERV.	REGOV.	% R E GOV.	R	MARKS	
	ceous		 	-		-	Dani zza		
	60.0 - 61.5 (ML) WC-82-12					1	1	sampl every	
	Same as above, slightly damp, low consistency, some						51		
	gray silty spots in the mass (small in size)								
	61.5 - 64.0 (ML) Same as above								
	64.0 - 65.5 (ML) WC-82-13 Same as above with good								
	bedding visible, 60° dip; gray-green with brown lamin-		С	ASI	NG	NO	ΓFS		
	ations, very hard, slightly	FROM	то	SIZE			EMARKS		
	damp, micaceous, low consistency								
	TD 65.5°	-	ļ.,		L.,				
			S	A MP	LIN	G N	OTE	S	
	Note: No water found in this hole.						_ DROP_		
							6" 12	BLOWS 2" 18"	24
		1		61.5			16 5	0 91 6 16	
		13	64.0	65.5	1.5	14"	17 4	5 16	
					i 			-	
					TER	OBS	ERV	ATION	15
		DEPTH	OF HOL	E					

DEPTH OF WATER

HOLE NO. WC-83	DATE1-29-62	PAGE	NO. <u>1</u>	OF_4	PAGE
LOCATION 2228 7th St. Los Angeles	JOB NO. 6148-5	-			
COLLAR ELEV. 265.7	INSPECTOR Nercessian		•		

		GIC NOTES
Depth	Classifica	tion and Physical Character
	0.0 - 0.5	Concrete
		(20)
		Clayey sands (SC), yellowish
		brown
	4.0 -	More sandy
		(00) 170 00 7
		(SC) WC-83-1
		Sandy clay, yellowish-brown,
		damp
		III Disturbed II OK
		I OK
		ı OA
	65 - 85	Becoming more clayey and
	0.5 - 0.5	more plastic
		INDIE PLASTIC
····	10.0 - 11.5	(SC) or (CL) WC-83-2
	10.0	Sandy clay, becoming more
		clayey, damp, yellowish
		brown
		III NF
		II OK
		I OK
		Tip: Wet clay
	11.5 - 15.0	Clay, sand becoming wet and
		almost muddy
	15.0 - 16.5	(ML) WC-83-3
		At 15.0, H ₂ O drippings
		slightly off samples
		clayey silt, low plasticity,
		dark yellow and brown, damp,
	<u> </u>	slightly organic
	<u> </u>	III OK
		II OK
	_	I OK
	16.5 - 19.0	(ML) Clayey silt

BORING NOTES							
Drilling Method_Auger Hole Size6" Angle_VerticalBearing							
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS		
0.0	0.5	0.5			Tri-cone		
0.5	49.0	48.5			Auger		
.,							
*							
,							

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			No casing

SAMPLING NOTES								
TYPE SA	TYPE SAMPLER Split-tube SIZE 21 WY. OF HAMMER 140 1b DROP 30"							
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L (WS 18"	24"
1	5.0	6.5	1.5		3	5	8	
2	10.0	11.5	1.5		2	4	6	
3	15.0	16.5	1.5		4	10	18	
<u> </u>		<u> </u>					<u> </u>	<u> </u>

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	49.0
DEPTH TO WATER	38.0
TIME OF OBSERV.	11:45 PM

HOLE NO. WC-83	DATE <u>1-29 & -30, -62</u>	PAGE NO. 2 OF 4 PAGES
LOCATION 2228 7th St., Lo	s Angeles JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	19.0 - 20.5 (ML) WC-83-4
	Clayey silts and fine sands,
	micaceous, traces of organic
	materials, slightly plastic
	III OK
	II OK
	I OK
	20.5 - 24.0 Same as above
	24.0 - 25.5 (ML) WC-83-5
	Clayey silts and fine sands,
	bluish gray, damp, more
	cohesive, traces of organic
	material in tube III
	III OK
	II OK
	I OK
	25.5 - 26.5 (ML) WC-83-6
	Same as above
	III OK
	II OK
	I OK
	26.5 - 27.5 (ML) WC-83-7
	Becoming very dense
	III OK
	II OK
	I OK
	27.5 - 29.0 (ML) WC-83-8
	Same as above
	III OK
··	II OK
	I OK
	1 On
1-30-62	
<u></u>	
	30.0 - 32.5 Same as above

	BORING NOTES									
	Drilling Method									
					ring					
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS					
		ļ								
~		ļ								
		ļ								
-										
	**	-								
		1								
	-									
<u>:</u>										

CASING NOTES									
FROM	ТО	SIZE		REMARKS					

	SAMPLING NOTES								
TYPE SA	TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"								
. SMPL. No.	FROM	то	INTERV.	RECOV.	6"	B L (0WS	24"	
4	19.0	20.5	1.5		4	10	18		
5	24.0	25.5	1.5		7	20	46		
6		26.5	1.0		4	30			
7	26.5	27.5	1.0		14	36			
8	27.5	29.0	1.5		12	28	57		

GROUND W	ATER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE N	10. <u>WC-83</u> DATE <u>1-30-62</u>	2		PAGI	E NO.	. <u>3</u> (DF <u>4</u> PAGI
	ON 2228 7th St., Los Angeles JOB NO. 6148-5						
COLLAF	R ELEV INSPECTOR_Ne	rcess	sian				
	GEOLOGIC NOTES		E	30RI	NG	NO.	TES
Depth	Classification and Physical Character		-				
	32.5 - 34.0 (ML) WC-83-9	An	gle			_ Bea	ring
	Silt to fine sand, micaceous,	}	1		T :		T
	dense, bluish gray	FROM	то	INTERV	REGOV.	RECOV.	REMARKS
	III OK	<u> </u>	 	 			
	II OK		ļ	<u> </u>	<u> </u>	ļ	
	I OK						
				T			
	32.5 - 35.0 Same as above				<u> </u>		
			 	 	 	 	
	35.0 - 36.5 (ML) WC-83-10	<u>;</u>	 	 	 	ļ	
	Silt to fine sand, micaceous		 		 	 	
	dense, bluish gray			ļ	<u> </u>		
	III OK				<u> </u>		
	II OK		T				
	I OK						·
	36.5 - 38.0 (ML) WC-83-11			4 0 1	110	***	
	Same as above				NG		
	III OK	FROM	TO	SIZE	 	R	EMARKS
	II OK		 	ļ	ļ		
	I OK	L	<u> </u>	<u> </u>	<u> </u>		
	38.0 - 39.5 (ML) WC-83-12		SI	AMP	LING	G N	OTES
	Silt to fine sand, micaceous,	TYPE S	AMPLER		it-tu		2011
	dense, gray	2175	<u> </u>	T. OF HAMI		40 lb	DROP3011
	III OK	, SMPL. NO.	FROM	то	INTERV.	RECOV.	6" 12" 18" 2
	II OK	9	32.5	34.0	1.5		13 40 87

OK

(ML) WC-83-13 Same as above

III II

9	32.5	34.0	1.5		13	70	87	
10		36.5	1.5		12	33	73	
 11	36.5	38.0	1.5		12	31	57	
 12	38.0	39.5	1.5		14	33	64	
 13		41.0	1.5		13	22	63	
GRO	DUND	WA	TER	OBS	ER	VAT	ΓΙΟΙ	NS I

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	·

	O. WC-83 DATE 1-30-62 ON 2228 7th St., Los Angeles JOB NO. 6148-5		•	PAGI	E NO.	<u>_4</u> (OF_	4	РΑ	GΕ
COLLAR	ELEV INSPECTOR_Ne	ercess	sian							
	GEOLOGIC NOTES		E	BORI	NG	NO	ΤE	S		
Depth	Classification and Physical Character	Dri Ho	lling le Siz	Meth e	od					
	44.0 - 45.5 (ML) WC-82-14	An	gle			_ Bea	ring	J		
<u> </u>	Inorganic silts, fine sands,				·	%			-	
<u> </u>	dense, micaceous, gray	FROM	TO	INTERV.	REGOV.	RECOV.		REM.	ARKS	
	III OK		 							
	II OK		 	ļ			 			
	I OK	<u> </u>	 	ļ	ļ	ļ	 -			
			ļ		<u> </u>	ļ	ļ			
	49.0 - 50.5 (ML) WC-83-15 Same as above	<u></u>		<u> </u>			<u> </u>			
									1	
	III OK									
	I OK			1						
	+ VI						1			
		 	 	 	 		-			
		<u> </u>		 			<u> </u>			
		L	1	<u> </u>		<u> </u>	<u></u>			
				A C I	NC	NO.				
			1		NG					
		FROM	TO	SIZE	<u> </u>	R	EMAR	KS		
-		<u> </u>	 							
		L	1	1	1					
			9	MP	LIN	G N	ΛΤ	FC		
		TYPE S	AMPLER	Spl:	it-tul	ое				
	<u> </u>	SIZE	<u> </u>	T. OF HAM	MER_1	10 lb	_ DR			
		SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC	0WS	24
		14	44.0	45.5	1.5		12	31	55	
		15	49.0	50.5	1.5		12	30	62	
								<u> </u>	<u> </u>	
									<u> </u>	
		<u></u>			<u> </u>					
		<u></u>	<u> </u>						<u></u>	ļ
		L	ļ					<u> </u>		<u> </u>
ļ			ļ				ļ			
		<u> </u>								
		<u> </u>								
	 		DUND		TER	OBS	ER	VA	<u> 10</u>	<u>NS</u>
			OF HOL		<u></u>					
<u> </u>			OF WAT							

	DATE <u>2-9-62</u>	PAGE NO. 1 OF 1
LOCATION West of Alvarado on 7th Street	JOB NO. 6148-5	•
COLLAR ELEV. 260.0	INSPECTOR R. J. Scott	<u>, </u>

	GEOLOGIC NOTES						
Depth	Classificat	ion and Physical Character					
	0.0 - 0.25	Pavement of Street					
	0.25- 3.0	(SM) Sandy Silt;					
		grey, damp, little clayey,					
		low dry strength and con-					
		sistency					
	3.0 - 5.0	(CL) Silty clay; brownish					
		grey, little sandy, damp,					
		inorganic, fine sand,					
		earthy odor, medium					
		plasticity					
	5.0 - 6.5	(CL) WC-84-1					
		Silty clay; grey-green with					
		a $\frac{1}{4}$ " vertical yellow-brown					
		streak, damp; low to medium					
		plasticity					
		III Disturbed					
		II Disturbed					
		T Disturbed					
	6.5 - 9.5	(CL)					
		Silty clay; grey-green,					
		damp, low consistency					
	9.5 - 11.5	(ML)					
	,	Clayey silt; very fine					
		grain, yellow-brown color,					
		micaceous, with yellower					
		streaks in mass; also brown					
	ļ	iron oxide streaks, Low to					
		medium plasticity					
	10.0 - 11.5	(ML) WC-84-2					
	<u> </u>	Same as above					
		III OK					
		II OK					
	<u> </u>	I OK					

1	BORING NOTES Drilling Method_Auger Hole Size5"									
Angle Vertical Bearing										
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS					
0.0	0.5				Tri-cone					
0.5					Auger					
					P. 4 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					

_ PAGES

	С	ASI	NĠ	NOTES	
FROM	TO	SIZE		REMARKS	
.]					

	SAMPLING NOTES								
type sampler Split tube 12" Sample size 2" wt. of hammer 140 1b prop 30"									
SMPL. NQ.	FROM	то	INTERV.	REGOV.	6"	8 L	OWS	24"	
1	5.0	6,5	1.5	12"	3	6	10		
2	10.0	11.5		12"	3	8	14		
3	15.0	16.5	1.5	12"	21	10	18		
,									

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	No Water
TIME OF OBSERV.	

HOLE NO. WC-84 West of Alvarado	DATE	PAGE NO. 2 OF 4 PAGES
	JOB NO. 6148-5	
COLLAR ELEV. 260.0	INSPECTOR_R. J. Scott	

Ī	<u> </u>	GIC NOTES						
Depth	Classificat	Classification and Physical Character						
	11.5 - 15.5	(ML) Same as above						
	י אר איי	(AT) 170 91 2						
	15.5 - 10.5	(ML) WC-84-3						
		Silt with some clay, gray-						
		green, H ₂ S odor, micaceous, slightly damp, low con-						
		sistency						
		III OK						
-		II OK						
		I OK						
	16.5 - 19.0	(ML) Silt, with little clay						
		green-gray, slightly damp,						
		micaceous, low consistency,						
		pungent H2S odor, fairly						
		dense, inorganic, slightly						
		dry strength, dull surface						
	19.0 - 20.5	(ML) WC-84-4						
		Same as above						
		III OK						
		II OK						
		I OK						
	20.5 - 22.0	(ML) WC-84-5						
		Same as above						
		III OK						
		II OK						
		I OK						
	22.0 - 24.0	(ML) WC-84-6						
	22.00 - 24.00	Same as above						
	1	III OK						
 		II OK						
		I OK						

BORING NOTES Drilling Method Auger Hole Size 5"							
AngleVertical_Bearing							
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS		
16.5	19.0	2.5			Auger		
19.0	25.5	6.5			Cone		
25.5	30.0	4.5			Auger		
30.0	31.5	1.5			Cone		
31.5	35.0	3.5			Auger		
<i>3</i> 5.0	3 6.5	1.5			Cone		
	40.0				Auger		
40.0	41.5	1.5			Cone		
41.5	44.q	2.5			Auger		
44.0	45.5	1,5			Cone		

CASING NOTES								
FROM	TO	SIZE	REMARKS					
			None					

	SAMPLING NOTES							
	TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 1/10 1b DROP 30"							
SMPL. NO.	FROM	то	INTERV.	RECOV.	6*	BLC	WS 18"	24"
4	19.0	20.5	1.5	12"	10	28	53	
5	20.5	22.0	1.5	12"	12	36	66	
6	22.5	24.0	1.5	12"	12	35	65	
7	24.0	25.5	1.5	12"	11	35	61	
8	30.0	31.9	1.5	12"	14	41	66	
9	3 5.0	36.5	1.5	12"	12	3 5	76	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	No water
TIME OF OBSERV.	

HOLE NO. WC-84	DATE <u>2-9-62</u>	PAGE NO. 3 OF 4 PAGES
West of Alvarado LOCATION on 7th Street	JOB NO. 6148-5	-
COLLAR ELEV. 260.0	INSPECTOR R. J. Scott	

GEOLOGIC NOTES						
Depth	CI	lassifica	tion and Physical Character			
	24.0	25.5	(ML) WC-84-7			
			Same as above			
			TTT OK			
			II OK			
			I OK			
2-12-5	,	 				
<u> </u>						
	25.5	- 30.0	(ML) Same as above, dense			
	30.0) = 31.5	(ML) WC-84-8			
			Silt with little clay,			
			greenish gray, dense,			
		·	micaceous, slightly damp,			
			inorganic, slight H2S odor,			
			dull surface, low consisten			
			and dry strength			
			III OK			
			II OK			
			I OK			
	31.5	- 35.0	(ML) Same as above			
	عد ೧	1 = 36 E	(ML) WC-84-9			
+	٠,٠٠٠	- <u>J</u> ∪• <u>J</u>	Same as abov			
	1		III OK			
- +						
- 	· ·					
			I OK Starting to change: seen in			
			tip: gray micaceous silt.			
1			dry, in the clayey silt as			
+	<u> </u>	 	above			
			above			
	36.5	- 40.0	(ML) Silt, with some clay			
			greenish gray or brown,			
			dense			
			5° dip			

		BORI	NĞ	NO.	TES
		Meth e			
Ang	le_			_ Bea	ring
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS
:	·				
·					
		ļ			

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	MPLER WT		MER		_ DR	O P		
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L C	W\$	24"
7	24.0	25.5	1.5	12"	11	35	61	
8	30.0	31.5	1.5	12"	ולנ	בע	66	
9	35.0	36.5	1.5	12"	12	35	76	
_								
			,					

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	No water
TIME OF OBSERV.	•

HOLE N	O. <u>WG-8h</u> West of Alvarado ON on 7th Street	DATE2_9_62			PAGE	E NO.	4 (F_	<u>L</u>	PA	3E
	ON _on 7th Street ELEV260.0										
OOLLAN	GEOLOGIC NOTE			E		N Ĝ	NO	TF	<u> </u>		
Depth	Classification and Phy		Dri	lling e Siz	Meth	od					
	40.0 - 41.5 (ML) WC-84-	-10	Ang	jle			_ Bea	ring			_
	Silt, with a grey-brown,	little clay, dense,	FROM	T		REGOV.		, 	REMA		<u> </u>
	50 dip of st	clightly damp, crata, Low con- d dry strength,									
	slight H ₂ S o	odor									
	I OK										
	11.5 - 11.0 (ML) Same as	above									
	հե.0 - 45.5 (ML) Same as	s above									
	ll OK		L	<u> </u>			L	L			
			ŕ	С		NG	NO.	ΓE	S		
	Note: T.D. 45.5		FROM	TO	SIZE		R	EMARI	KS		
	No water end	countered in									
				S A	MP	LIN	G N	0 T	ΕS		
			TYPE S	AMPLER	OF HAM	MER		_ DR	O P		
			SMPL.		_	INTERV.			BLC	WS IS"	24
			10	70°C				i .	1	1	
			11	44.0	45.5	1.5	12"	12	26	62	

DEPTH OF HOLE
DEPTH OF WATER
TIME OF OBSERV.

HOLE NO. WC-85	DATE <u>2-5-62</u>	PAGE NO. 1 OF 5 PAGES
LOCATION 7th & Alvarado Streets	JOB NO. 6148-5	•
COLLAR ELEV. 263.0	INSPECTOR R. J. Scott	

Depth	Classificat	ion and Physical Character
	0.0 - 0.3	Concrete
	03-15	(M.) Silt, dark brown inor-
	00.1	ganic. damp. some clay.
		earthy odor, slight plas-
		ticity, 5% medium to coarse
		sand
	1 2 2 2	(22) (22)
	4.5 - 5.0	(ML) Silt, clayey, dark gre
		to black, inorganic, some
		fine to medium sand, slight
		plasticity
	5.0 - 6.5	(ML) WC-85-1
		Silt, clayey, black, little
		sandy, damp, inorganic,
		low plasticity
		III OK
		II OK
		I OK
	6.5 - 8.0	(ML) Same as above
	8.0 - 10.0	(CL) Silt clay, dark brown
		to black, damp, medium
	- 	consistency
	10.0 - 11.5	(ML) WC-85-2
		Diatomite white with grey
		streaks, light weight.
		odorless, some hedding
		planes
	115-115	(ML) Shale, grey, damp,
	110) - 110)	sandy & clavey, low con-
		sistency
	14.5 - 15.0	(M.) Samly silt, brown
		damp. low consistency.
		earthy odor

	[BORI	N G	NO T	T E S
Hol	e Siz	Meth e_6" Verti	···		ring
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
0.0	0.5	0.5			Tri-Cone
0.5	ļ	<u> </u>			Auger
	<u> </u>				
	 				· · · · · · · · · · · · · · · · · · ·
	1				

	С	ASI	NG NOTES
FROM	TO	812 E	REMARKS
			No Casing

	S /	MP	LIN(G N	<u>0 T</u>	ES		
TYPE SA	MPLEA_ 286 W1		t tub		_ DR	0 P	30#	<u> </u>
SMPL, NO.	FROM	TO	INTERV.	RECOV.	6"	12"	IS"	24"
1	5.0	6.5	1.5	14"		5	8	
2	0.0	11.5	1.5	1)'"		3	6	
3	5.0	16,5	1.5	12"		15	28	
							<u></u>	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-85	DATE	PAGE NO. 2 OF 5 PAGES
LOCATION _ 7th & Alvarado Streets	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. J. Scott	

GEOLOGIC NOTES
Classification and Physical Character
15.0 - 16.5 WC-85-3 Diatomite, light grey diatomaceous soil, apparent dip of 60° with lighter grey streaks parallel to bedding plane, H ₂ S odor present, fairly dry, crumbles easily THOK HOK HOK
16.5 = 18.0 (ML) Sandy silt, dark brown with gray streaks earthy odor, damp, low consistency
20.0 - 21.5 (ML) WC-85-4 Silt, slightly sandy, brown dense, slightly damp, little white flecks, earthy odor, low consistency, micaceous III OK II OK I OK
21.5 = 26.0 (ML) Same as above
26.0 - 27.5 (ML) WC-85-5 Same as above III OK II OK I OK
27.5 - 29.0 (ML) WC-85-6 Same as above III OK II OK I OK

	E	ORI	NG	NO.	ΓES
Hole	lling e Siz	Meth e	od	Auge	
7119			· ·		
FROM	то	INTERV.	REGOV.	M E COV.	REMARKS
				ļ	
				L	

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			No Casing

	S A	MP	LIN	G N	0 T	ES		•
TYPE SA	MPLER_ 211 wt	Spl:	MER	ре 140 1	b one)P	30 ⁽ⁱ	
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6 "	BLC	W\$	24"
4	20.0	26.5	1.5	12"	8	25	55	
5	26.0	27.5	1.5	14"	12	29	56	
6	27.5	29.0	1.5	14"	12	34	67	

GROUND WA	TER	OBS	ERVATIONS
DEPTH OF HOLE			
DEPTH to WATER	161		
TIME OF OBSERV.	1:00	AM,	2-6-62

HOLE NO. WC-85	DATE <u>2-6-62</u>	PAGE NO. 3 OF 5 PAGES
LOCATION _ 7th & Alvarado Streets	JOB NO. 61118-5	_
COLLAR ELEV.	INSPECTOR R. J. Scot	<u>t</u>

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	29.0 - 30.5 (ML) WC-85-7
	Same as above
	TII Soft mud = discarded
	II OK
	I OK
	In tip of sampler had one metamorphic rock (1 3/4")
	high in mica content; crys-
	talline quartz etc. white &
<u> </u>	gray
	30.5 - 32.0 (ML) WC-85-8
	Silt, brown, dense, mi-
	caceous, slightly damp,
	earthy odor, low consist-
<u> </u>	ency
	III OK white flecks
	II OK
<u> </u>	T OK
 	20 2 22 7 (35) 10 27 0
 	32.0 - 33.5 (ML) WC-85-9
 	Same as above
 	TI OK
 	II OK
 	I OK
	33.5 - 35.0 (ML) WC-85-10
	Same as above
	III OK
	II OK
	I OK
	35.0 - 36.5 (ML) WC-85-11
<u> </u>	Same as above
	III Discarded
	II OK
 	I OK
	<u> </u>
	
1 1	1

	В	ORI	NĞ	NO.	ΓΕЅ
Dri	lling	Meth	o d	Auger	•
	e Siz				
			1	_ Bea	ring
FROM	TO	INTERV.	REGOV.	% RECOV.	REMARKS

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	S A	MP	LIN	G N	0 T	ES		
TYPE SA	MPLER WT	Sp]		be 10 lb	DRC	DP_3	010	
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC 12"	18"	24"
7	29.0	30。1	1.4	911	11	1,2	62	
8	30.5	32,0	1.5	14"	13	36	67	
9	32.0	33.5	1.5	7),11	12	36	72	
10	33.5	35. 0	1.5	12"	13	32	64	
11	35.0	36.5	1.5	911	13	37	78	

GROUND WA	TER	OBSE	RVATI	ONS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO. WC-85	DATE <u>2-5-62</u>	PAGE NO. 4 OF 5 PAGES
LOCATION7th & Alvarado Streets	JOB NO. 611/8-5	-
COLLAR ELEV.	INSPECTOR R. J. Scott	·

36.5 - 38.0 (ML) WC-85-12 Same as above III OK I OK I OK 38.0 - 39.0 (ML) WC-85-13 Same as above III Discarded II OK I OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - hl.5 (ML) WC-85-1h Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK I OK LOK LOK LOK LOK LOK LOK LOK	Depth	Classificat	ion and Physical Character
Same as above III OK II OK I OK I OK 38.0 - 39.0 (ML) WC-85-13 Same as above III Discarded II OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense		36.5 - 38.0	(ML) WC-85-12
17 OK	·		
I OK 38.0 - 39.0 (ML) WC-85-13 Same as above III Discarded II OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			III OK
38.0 - 39.0 (ML) WC-85-13 Same as above III Discarded II OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 42.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense		<u> </u>	TT_OK
Same as above III Discarded II OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			I OK
Same as above III Discarded II OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense	····	28.0 20.0	(MT) TIC 8C_33
III Discarded III OK I OK I OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense		†	
TI OK T OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 45.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			
J OK 39.0 - 39.5 Shale, light grey, approximately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			
mately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			
mately 60° dip, fairly dry 39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			
39.5 - 41.5 (ML) WC-85-14 Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense		39.0 - 39.5	
Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 Drilling harder 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense		<u> </u>	mately 60° dip, fairly dry
Silt, brown dense, slightly damp, earthy odor, white flecks in mass, low consistency III Discarded II OK I OK I OK Late of the construction of th		39.5 - 41.5	(ML) WC-85-14
damp, earthy odor, white flecks in mass, low con- sistency III Discarded II OK I OK Late of the process of the			
sistency III Discarded II OK I OK Late 1.5 - 42.0 Same as above Late 2.0 Drilling harder Late 2.0 - 45.0 Silt, brown, dense, micaceous Late 3.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense Late 5.50.0 (ML) Silt, brown, damp,			
III Discarded II OK I OK Late 1			flecks in mass, low con-
II OK I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 - 45.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense			sistency
I OK 41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 - 45.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense	<u></u>		
41.5 - 42.0 Same as above 42.0 Drilling harder 42.0 - 45.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,		<u> </u>	
42.0 Drilling harder 42.0 - 45.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,		-	1 OK
42.0 Drilling harder 42.0 - 45.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,	-	11 5 - 12 0	Same as above
li2.0 - li5.0 Silt, brown, dense, micaceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp.		42.0	Dance de dove
ceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,		42.0	Drilling harder
ceous 45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,			
45.0 - 46.5 (ML) WC-85-15 Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,		12.0 - 15.0	Silt, brown, dense, mica-
Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,			ceous
Silt, brown, damp white flecks, micaceous, no consistency, dense 46.5 - 50.0 (ML) Silt, brown, damp,		15.0 - 165	(MT.) WC-85-15
flecks, micaceous, no consistency, dense		47.0 - 40.7	
consistency, dense			
		1.6 7 70 0	(MT \ C:2+ b d
		40.5 - 50.0	micaceous
			

BORING NOTES									
Drilling Method Auger									
Hole	Hole Size_6"								
Ang	le <u>Ve</u>	rtica	1	_ Bea	ring				
FROM	то	INTERV.	RECOV.	% REGOV.	REMARKS				

	C	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	

	SAMPLING NOTES							
TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L	0WS	24"
12	B6.5	38.0	1.5	14"	13	38	76	
13	38.0	39.5	1.5	811	11	33	79	
	39.5	h1.2	بلہد	811	13	38	120	
15	15.0	46.5	1,5	15"	14	39	80	
	ļ <u>.</u>							

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

JULLAR	ELEV INSPECTOR_R	. J. S		•	_					
	GEOLOGIC NOTES			BORI	N G	ΝO	ΤE	s		
Depth	Classification and Physical Character			Meth						
	46.5 - 50.0 (ML) Silt, brown, damp,			ertic						_
	micaceous	FROM	то	INTERV.	RECOV.	% R E GOV.		REMA	RKS	
	50.0 - 51.5 (ML) WC-85-16 Same as above III OK II OK									
	I OK									
	TD 51.5									
			C	ASI	NG	NO.	ΓF	S		
		FROM	то	SIZE			EMARI			_
								·		
		TYPE S	AMPLER	AMP Spli	t tuk	ре	0 T		30 !!	
		SMPL. NO.		то		REGOV.	6"		18"	5
		16	50.0	51.5	1,5	13"	13	25	<u>55</u>	
		1								

HOLE NO. WC-86	DATE 2-23-62	PAGE NO. 1 OF 3 PAGES
LOCATION 7th & Bonnie Brae	JOB NO. 6148-5	
COLLAR ELEV. 276.9	INSPECTOR Nercessian	

	GEOLO	GIC NOTES					
Depth	Classification and Physical Character						
	0.0 - 1.0	Concrete, subgrade					
	7.0 5.0	(1011) 170 0/ 3					
	1.0 - 5.0	(MH) WC-86-1					
		Silty sand, non-cohesive,					
		micaceous, diatomaceous,					
	<u> </u>	fine sandy soil, with some					
		clayey silt					
	<u> </u>	III MH					
		II MH					
<u></u>		I MH					
	F 0 300	(CL-MH) WC-86-2					
	5.0 - 10.0						
		Same as above, more clayey					
		than above, diatomaceous,					
		stiff sand, gray-brown					
	 	colored (formation)					
		III MH-CL					
	 	II MH-CL					
		I MH-CL					
	1200 150	(07) 100 94 3					
	10.0 - 15.0	(CL) WC-86-3					
		Silty clay of medium					
		plasticity, gray-brown-					
		orange colored					
	 	III CL					
		II CL					
		I CL					
	15.0 - 20.0	(CL) WC-86-4					
	10.0 20.0	Inorganic, silty clay of					
		medium plasticity, gray-					
		brown colored					
		III CL					
		II CL					
	1	I CL					
		<u>*</u>					
	 						
		· • · · · · · · · · · · · · · · · · · ·					
5							

	В	ORI	NĠ	NO	TES			
Drilling Method Rotary Hole Size 5½"								
Ang	le_Ve	ertica	al	_ Bea	ring			
FROM	TO	INTERV.	REGOV.	% REGOV.	REMARKS			
0.0	1.0	1.0			Tri-cone			
1.0	61.0	60.0			Fish-tail			
								
s			-					

CASING			NG	NOTES	
FROM	то	SIZE		REMARKS	
0.0	2.0	5.5			

	S A	MP	LIŅ	3 N	0 T	ES		
SIZE	2" wi	OF HAMI	t-tube	0 lb	_ DRC) P	30"	
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6"	BLC	WS	24"
1	5	6.5	1.5		4	_17	38	
2	10.0	11.5	1.5		5	17	25	
3	15.0	16.5	1.5),	10	18	
4	20.0	21.5	1,5		3	8	1).	
							,	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-86	DATE <u>2-23-62</u>	PAGE NO. 2 OF 3 PAGE
LOCATION 7th & Bonnie Brae	JOB NO. 6148-5	_
COLLAR ELEV. 276.9	INSPECTOR Nercessian	

Depth		GIC NOTES tion and Physical Character
	20.0 - 25.0	(CL) WC-86-5
		Inorganic, silty clay of
		medium plasticity, micaceous
		gray-brown
		III CL
		II CL
		I CL
		(Higher plasticity than
		usual)
	25.0 - 30.0	(ML) WC-86-6
		Dark brown, clayey silt of
		low plasticity, micaceous,
		more silt in tip
		III ML
		II ML
		I ML
	30,0 - 35,0	(ML) WC-86-7
		Same as above, cohesive silt
		III ML
i		II ML
		I ML
	127 0 100	(257) × 70, 04, 0
	35.0 - 40.0	(ML) WC-86-8
		Same as above, cohesive
		silt, becoming dense
		III ML II ML
		
+		I ML
	1.0.0 1.7.0	(ML) WC-86-9
	ДО.О - ДЗ.О	
		Same as above, cohesive
	1	silt, dense III ML
	· •	II ML
		I ML
	-	<u>. 1111</u>
		

	BORING NOTES									
Drilling Method Rotary										
	Hole Size $5\frac{1}{2}$ "									
Angle_Vertical Bearing										
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS					

	С	ASI	NG	NOTES			
FROM	TO SIZE			REMARKS			

	SAMPLING NOTES TYPE SAMPLER Split-tube									
SIZE	TYPE SAMPLER SDILL-tibe SIZE 211 WT. OF HAMMER 110 1b DROP 3011									
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8L0	18"	24"		
5	25.0	26.5	1.5		3	7	12			
6	30.0	31.5	1.5		5	15	32			
7	35.0	36.5	1.5		11	27	52			
8	40.0	41.5	1.5		13	35	60			
9	45.0	46.5	1.5		15	35	64			

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

SAMPLING NO TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER J O D D	DLE NO	_ WC-86	ATE2-23	-62	•	PAGI	E NO	. <u>3</u> ()F_	3	PA	GE:
GEOLOGIC NOTES Depth Classification and Physical Character 15.0 - 50.0 (ML) WC-86-10 Clayer silt, micaceous, dark brown as above III ML I M	CATIO	N 7th & Bonnie Brae JC	OB NO. 61148	-5								
Depth Classification and Physical Character 45.0 - 50.0 (ML) WC-86-10 Clayev silt, micaceous, dark brown as above III ML	OLLAR	ELEV. 276.9 IN	SPECTOR_	Nerces	sian		_					
List		GEOLOGIC NOTES		7	(BORI	NĠ	NO	TE	S		
15.0 - 50.0 (ML) WC-86-10 Clayey silt, micaceous, dark brown as above III ML I	epth	Classification and Physica	ıl Character						У			
Clayey silt, micaceous, dark FROM TO INTERN RECOV. RECOV.		45.0 - 50.0 (ML) WC-86-10		And	gle_V	ertic	al	_ Bea	ring			_
I M. 50.0 - 55.0 WC-86-11 Clayey silt, micaceous, brown, cohesive, dense 55.0 - 61.0 (ML) WC-86-12 Same as above TII ML I ML CASING NOTE FROM TO SIZE REMA SMC. FROM TO INTERN RECOV. 1 SMC. FROM TO INTERN RECOV. 2 10 50.0 51.5 1.5 1 11 55.0 56.5 1.5 1		Clayey silt, mid brown as above III ML		rk -	1	7		,	, 	REM		
Clayey silt, micaceous, brown, cohesive, dense									<u> </u>			
brown, cohesive, dense			caceous				-				-	
Same as above												
III ML		T .]	 	 	ļ	ļ			<u></u>	
II ML					 	ļ		<u> </u>				
CASING NOTE FROM TO SIZE REMA				┦┡──	<u> </u>	<u> </u>		 	<u> </u>			
CASING NOTE FROM TO SIZE REMA SAMPLING NOTE TYPE SAMPLER. Split-tube SIZE 211 WT. OF HAMMER. 140 lb. of NO. FROM TO INTERV. RECOV. 8 10 50.0 51.5 1.5 1 11 55.0 56.5 1.5 1				┧┖	<u> </u>		<u> </u>		<u> </u>			
SAMPLING NO TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 1/40 1b or SMPL FROM TO INTERV. RECOV. G* 10 50.0 51.5 1.5 1 11 55.0 56.5 1.5 1]		121	NI G	NO:	TE			
SAMPLING NO TYPE SAMPLER Split-tube SIZE 211 WT. OF HAMMER 110 1b 0 10 10 10 10 10				FROM	· · · · · · · · · · · · · · · · · · ·	7	14.0		EMARI		 ,	
TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 1b 0 SMPL FROM TO INTERV. RECOV. 10 50.0 51.5 1.5 1 11 55.0 56.5 1.5 1												
TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 1b 0 SMPL FROM TO INTERV. RECOV. 10 50.0 51.5 1.5 1 11 55.0 56.5 1.5 1												
SIZE _ 211 WT. OF HAMMER _ 1/10 1b 0 SMPL FROM TO INTERV. RECOV. 6 10 50.0 51.5 1.5 1 1											<u>.</u>	
10 50.0 51.5 1.5 1 11 55.0 56.5 1.5 1				SIZE_	211 w	T. OF HAM	MER_1	40 16	_ DR		3OII	
11 55.0 56.5 1.5 1.				SMPL. NO.	FROM	то	INTERV.	REGOV.	•	12"	WS	24
					,	T .			13	-	61	<u></u>
								 	14	 	82	
				$- \frac{1}{12} $	DT. 0	02.5	1.5		13	38	81	
				$\dashv \vdash$	ļ			 		-		
				1	1							
						ļ		<u> </u>				
					<u> </u>				<u> </u>			
GROUND WATER OBSE				- GB	TILLE	\ \A/ A	TEP	∩ P¢	FD	\/ A T	ΓIΛ	NIC

DEPTH OF WATER

HOLE NO. WC-87	DATE 2-24-62	PAGE NO. 1 OF 3 PAGES
LOCATION _ 7th & Burlington	JOB NO. 6148-5	
COLLAR ELEV. 290.0	INSPECTOR Nercessia	<u>n</u>

Depth	Classification and Physical-Character
	0.0 - 1.5 Concrete and brick
	1.5 - 5.0 WC-87-1
	Dark brown, silty sand,
	wet and loose (SM)
	III NF Disturbed SM
	II NF Disturbed SM
	I NF Disturbed SM
	6.0 - 7.0 Sand and gravel
	7.0 - 10.0 WC-87-2
	Clayey sand with silt,
	gravel in tip and tube I
	slightly cohesive (SC)
	III NF Discarded
	II SC
	I SC
	11.0 - 13.0 Sand and gravel
	13.0 - 13.5 Cobbles
	13.0 - 15.0 WC-87-3
	Light brown silty sand (SM)
	III NF Discarded cobble
	II SM
	I SM
	15.0 - 20.0 WC-87-4
	Inorganic silt and clay of
	medium plasticity with some
<u> </u>	diatomaceous silt more
	clayey in tip and tube I
	and silty in II (CL-MH)
	III CL
	II CL
	I CL

	BORING NOTES									
l	Drilling Method Rotary Hole Size 5"									
Ang	Angle <u>Vertical</u> Bearing									
FROM	TO INTERV. REGOV. REGOV. REMARKS									
0.0	1,5	1.5			Tri-cone					
1.5	13.0	11,5			Fish-tail					
13.0	15.0	2.0			Tri-cone					
15.0	67	42. C			Fish-tail					
ļ										
					-					

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
0.0	2.0	5.5			

	SAMPLING NOTES									
TYPE SA	TYPE SAMPLER Split-tube SIZE 211 WT. OF HAMMER 110 1b DROP 3011									
SMPL. NO.	FROM	T0	INTERV.	REGOV.	6"	BLC 12"	16"	24"		
1	5.0	6,5	1.5		1	2	8			
2	10.0	11.5	1.5		6	21	41			
3	15.0	16.5	1.5		12	32	111			
4	20.0	21.5	1.5		5	13	21			
<u> </u>										
						ļ				

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-87	DATE 2-24-62	PAGE NO. 2 OF 3 PAGES
LOCATION _ 7th & Burlington	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTORNercessian	

	GEOLO	SIC NOTES
Depth	Classificati	ion and Physical Character
	20.0 - 25.0	WC-87-5
		Inorganic silty clay with
		medium plasticity, more
	i	plastic in tip, yellow-
		brown colored and micaceous
		III ML
		II ML
		I ML
		Tip: CL
	25.0 - 30.0	wc-87-6
		Same as above plus some
		diatomaceous silt in tip
		of tube I with dry mixture
		(CL)
		III ML
		II ML
		I M.
ļ	30.0 - 35.0	
 		Same as above
	<u> </u>	III Empty
	<u> </u>	II Empty
		I ML (NF)
	25 0 10 0	1.m 07 0
	35.0 - 40.0	
		Clayey silt, brown, mica-
		ceous, cohesive
-	<u> </u>	III ML
 	 	II ML
 -	 	I ML
	40.0 - 45.0	tir_87_0
	40.0 - 43.0	
 		Same as above III ML
 	 	······································
 	 	II ML
		I ML
}		
L	_1	

BORING NOTES Drilling Method Hole Size							
Ang	le			_ Bea	ring		
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS		
	-						

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES							
TYPE SA	type sampler Split-tube size 21 wt. of hammer 1/10 lb drop 3011							
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L (18"	24"
5	25.0	26.5	1.5		5	12	23	
6	30.0	31.5	1.5		7	18	25	
7	35.0	36.5	1.5		5	13	23	
8	40.0	41.5	1,5		11_	29	52	
9	45.0	46.5	1.5		11	214	58	

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-87	DATE2=2L=62	PAGE NO. 3 OF 3 PAGES
LOCATION 7th & Burlington	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	1

OLLAR	ELEV INSPECTOR
	GEOLOGIC NOTES
Depth	Classification and Physical Character
	45.0 - 50.0 WC-87-10
	Inorganic silt, dark brown,
	micaceous, cohesive as
	above
	III ML II ML
	I ML
	i mi
	50.0 - 53.0 Siltstone and gravel
	53.0 - 55.0 WC-87-11
	Inorganic silt, dark brown,
	micaceous, cohesive
	III ML
	II ML
	I ML
	55.0 - 61.0 WC-87-12
	Same as above
	III ML
	II ML
	I ML
	(2.0. (7.0. 17.07.20
	61.0 - 67.0 WC-87-13 Same as above
	III ML
	II ML
	I ML

	BORING NOTES						
	Drilling Method						
					ring		
FROM	τo	INTERV.	REGOV.	% RECOV.	REMARKS		
		1					

	С	ASIN	IG NOTES
FROM	то	SIZE	REMARKS

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER_Split-tube SIZE_2! WT. OF HAMMER_1/10 1b DROP_30!!							
SMPL. NO.	FROM	TO	INTÉRV.	REGOV.	6"	BL 12"	OWS	24"
10	50.0	51.5	1.5		9	28	51	
11	55.0	56.5	1.5		11	30	59	
12	61.0	62.5	1.5		11	34	64	
13	67.0	68.5	1,5		13	34	68_	
						ļ	 	
<u> </u>								

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-88	DATE 2-19-62	PAGE NO. 1 OF 4 PAGES
LOCATION 7th & Beacon Ave.	JOB NO. 6148-5	_
COLLAR ELEV. 304.8	INSPECTOR Nercessian	1

GEOLOGIC NOTE'S							
Depth	Classification and Physical Character						
	0.0 - 1.5 Concrete and brick						
	1.5 - 5.0 (SM) WC-88-1						
	Brown, damp, silty sand,						
· · · · · · · · · · · · · · · · · · ·	fine sand						
	III NF						
	II OK						
	I OK						
	8.0 - 8.3 Sand and gravel						
	5.0 - 10.0						
	10.0 - 11.5 (SM) WC-88-2						
	Same as above, dense						
	III NF						
	II OK						
-	I OK						
	10.0 - 15.0						
	15.0 - 16.5 (SM) WC-88-3						
	Light gray, orange						
	(oxidized) sand, find and						
	damp						
	III OK						
	II OK						
	I OK						
	16.5 - 20.0 Silt						
	15.0 - 20.0						
	20.0 - 21.5 (ML) WC-88-4						
·····	Inorganic, non-cohesive sil						
	III NF						
	II ML. I ML						
	22.0 - 22.2 Gravel						

	BORING NOTES							
	Drilling MethodPatawa							
i .	Hole Size 5" Angle Vertical Bearing							
Ang	le	er orc	<u>aı</u>	- Rea	ring			
FROM	TO	INTERV.	RECOV.	% REGOV.	REMARKS			
2.0	1,5	1.5			Tri-cone			
1.5	76.0	74.5	L		Fish-tail			
					,			

CASING			NG NOTES
FROM	то	SIZE	REMARKS
0.0	2.0	5.5	

	SA	A M P	LIN	G N	0 T	ES		
TYPE S	type sampler Split-tube size 21 wt. of hammer 140 lb drop 30!							
SMPL. NO.	FROM	TO	INTERV.	RECOV.	A.H	B L ()WS	24"
1	5.0	6.5	1.5		10		59	
2	10.0	11.5	1.5		17	42	80	
3	15.0	16.5	1.5		14	45	82	
- 4	20.0	21.0	1.0		18	72		
					L			
,	ļ							
<u> </u>						<u> </u>		
<u> </u>		<u> </u>				<u> </u>		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-88	DATE	PAGE NO. 2 OF 4 PAGES
LOCATION 7th & Beacon Ave.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_Nercessian	· · · · · · · · · · · · · · · · · · ·

	GEOLOG	SIC	NOTES
Depth	Classifiçati	on ar	nd Physical Character
	20.0 - 25.0	(ML)	WC-88-5
		Gray-	green, micaceous silt
	 	III	
	 	II	OK
	<u> </u>	<u> </u>	OK
.	+	/ \	*** 00 (
	25.0 - 30.0		
			as above; some orange
			some gray-green colored
 	 	<u>silt</u>	M
			ML.
 		III II	
			ML.
			P15
	30.0 - 35.0	(MT.)	MC=88=7
			gray-brown silt,
			eous, non-cohesive
		IV	•
		III	
		II	
		I	ML
	35.0 - 40.0	(ML)	WC-88-8
		Same	as above
		IV	ML.
		III	ML.
		II	ML
		I	MT.
	<u> </u>	1	02
 	40.0 - 45.0		WC-88-9
	•	Same	
<u> </u>		IV	ML.
 		III	M
	<u> </u>	<u>II</u>	ML:
	<u> </u>	<u> I </u>	ML.
	 		
	 		
 			
L L	t		

	BORING NOTES						
	Drilling Method						
Ang	le			_ Bea	ring		
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS		
		 		ļ			
	L						

	С	ASI	NGN	IOTES	
FROM	то	SIZE		REMARKS	

	SAMPLING NOTES								
	TYPE SAMPLER DROP DROP								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC 12"	18"	24"	
5	25.0	26.5	1.5		7	19	33		
6	30.0	31.5	1.5		10	25	46		
7	B5.0	36.5	1.5		12	31	57		
. 8	10.0	41.5	1.4		12	33	59		
9	55.0	46.5	1.5		וו	30	53		
,									

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-88	DATE2-19-62	PAGE NO. 3 OF 4 PAGES
LOCATION _ 7th & Beacon Ave.	JOB NO. 6148-5	.
COLLAR ELEV.	INSPECTOR Nercessian	

GEOLOGIC NOTES								
Depth	Classification and Physical Character							
	45.0 - 50.0 (ML) WC-88-10 Non-cohesive silt as before							
	IV ML							
	III ML							
	II ML							
	I ML							
-	50.0 - 55.0 (ML) WC-88-11							
	Same as above with slight							
	H ₂ S odor							
	IV ML							
	III ML							
	II ML							
	I ML							
	55.0 - 60.0 (ML) WC-88-12							
	Same as above							
	IV ML							
	III ML II ML							
	I M.							
·	T Mis							
	60.0 - 65.0 (ML) WC-88-13							
	Same as above							
	III ML							
	II ML							
ļ	I ML							
	(2017) 110 00 71							
	65.0 - 70.0 (ML) WC-88-14							
 	Same as above							
	III Empty							
	II Empty I OK (ML)							
	L UN (PILO)							
	70.0 - 70.5 Siltstone							
	•							

IKS

	С	ASI	NOTES	
FROM	то	SIZE		REMARKS

	SAMPLING NOTES									
TYPE SAMPLER BT. OF HAMMER DROP										
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC		24"		
10	50.0	51.5	1.5		12		52			
11	55.0	56.5	1.5		16	39	65			
12	60.0	61.5	1.5	· ·· · · · · · · · · · · · · · · · · ·	15	39	70			
13	65.0	66.5	1.5		17	38	80			
14	70.0	70.5	1.5		26					

GROUND	WATER	OBSERVATION	1 S
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

	O. <u>WC-88</u>	DATE2_1			PAGI	E NO.	<u>_1</u> (OF_	4	РΑ	GE
	ON 7th & Beacon Ave.										
COLLAR	ELEV		Nerces							<u> </u>	
	GEOLOGIC NOTE	S	 ├			NĠ					
Depth	Classification and Phys	sical Characte		lling le Siz							
	70.5 - 76.0 (ML) WC-88-1	5		gle							
	Same as abov			1		T :	Ţ———				
	II ML		FROM	ТО	INTERV.	REGOV.	RECOV.		REM	ARKS	
	I: ML	· · · · · · · · · · · · · · · · · · ·									
								ļ			
	 		-					 			
				 		<u> </u>	ļ		····		
				 			 	 			
	<u> </u>	***		1	1	<u> </u>		-		<u>;</u>	
						,					
						^					
						NG					
			FROM	то	SIZE		R	EMARI	KS		
			\dashv \vdash \vdash							<u> </u>	
			TYPE S	S A	AMP	LIN	G N	<u>0 T</u>	<u>ES</u>		
			SIZE_	w	T. OF HAM	MER		_ DR			
			SMPL.				REGOV.		12"		24"
			15	76.0	77.5	1.5		12	36	70	
		**************************************		<u> </u>		<u> </u>		 			
				<u> </u>							-
								-			
		<u> </u>	<u> </u>	 				 	-		
		-,									
	 		- CO	711810	14/ A	TCS	000	<u> </u>	\		
			1	OF HOL		IEK	OBS	EK	VA	10	<u> 15</u>
			DEPTH	OF WAT	ER				······		
1			TIME	OF OBSER	IV.						

HOLE NO. WC-89	DATE 2-20-62	PAGE NO. 1 OF 3 PAGES
	JOB NO. 6148-5	_
COLLAR ELEV. 308.0	INSPECTOR_Nercessian	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 = .4 Concrete
	.4 - 5.0 (SM) WC-89-1
	orange-brown, silty sand,
	damp
	III NF Discarded
	II SM
	I SM
	5.0 - 10.0 Same as above
	10.0 - 15.0 WC-89-2
	Orange-brown silty sand,
	fine sand as above
	III Empty
	II SM Disturbed I SM Disturbed
	1 SM Disturbed
	15.0 - 20.0 (SM) WC-89-3
	Same as above
	III Empty
	II SM
	I SM
	22.0 - 22.5 Some gravel
	22.5 - 25.0 (ML) WC-89-4
	Yellowish brown, clayey
	silt, low plasticity,
	dense, micaceous
	III ML
	II ML
	,I ML
	25.0 - 30.0 (ML) WC-89-5
	Yellow-orange, dark brown
	colored clayey silt
	mixture, micaceous, damp
	III NF Discarded II ML I ML
	1.1. P.1.1. 3. P.1.1.

BORING NOTES Drilling Method Rotary Hole Size 5"										
Angle_VerticalBearing										
FROM TO INTERV. RECOV. REGOV. REMARKS										
0.0	1,0	1.0			Tri-cone					
1.0	67	66.0			Fish-tail					
67.0	72	5.0			Tri-cone					

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
0.0	2.0	5.5	

SIZE WT. OF HAMMER DROP								
SMPL. NO.	FROM	TO	INTÈRV.	RECOV.	6"	8 L C	WS	24
1	5.0	6.5	1.5		10	24	42	
2	15.0	16.0	1.0		18	60		
3	20.0	21.0	1.0		34	102		
4	25.0	26.5	1.5		18	41	90	
5	30.0	31.5	1.5		7	24	42	
							:	

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH TO WATER		
TIME OF OBSERV.		

HOLE NO. WC-89	DATE 2-20-62	PAGE NO. 2 OF 3 PAGES
LOCATION 7th & Union	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	

Depth	Classification and Physical Character						
	30.0 - 35.0	(ML) WC-89-6					
		Clayey silt, yellowish					
		gray colored, damp,					
		slightly cohesive					
		III ML					
		II ML					
	· · · · · · · · · · · · · · · · · · ·	I ML					
		7					
	35.0 - 40.0	(ML) WC-89-7					
		Same as above, light					
	<u> </u>	brown, fine sandy clayey					
		silt, damp					
		III ML					
		II ML					
		I ML					
	43.0 - 44.0	Concretion					
	40.0 - 45.0	(ML) WC-89-8					
	<u> </u>	Dark-greenish gray - non					
		cohesive, clayey silt,					
		dense, micaceous					
		III NF					
		II ML					
		I ML					
	45.0 - 50.0	(ML) WC-89-9					
		Same as above					
<u>_</u>		III NF					
-		II ML					
	<u> </u>	7 ML					
		retion, micaceous, fine					
		ard greenish gray colored					
	1/2" diameter	'in the tip.					
							
	 						
1	.1						

ĺ	E	BORI	NG	NO.	ΓES					
	•	Meth e								
					ring					
FROM	то	INTERV.	INTERV. REGOV. REGOV. REMARKS							
		 	 							
			<u> </u>							
			<u> </u>							

CASING				NOTES_	
FROM	TO	SIZE		REMARKS	
			ļ		
		ļ.,,,,,,,	L		

TYPE SAMPLER								
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	15. P F C		24
6	35.0	36.5	1.5		9	24	41	
7	40.0	41.5	1.5		11	24	62	
8	45.0	46.9	1.0	1	15	73		
9	50.0	50.0	1.0		15	66		

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-89	DATE 2-20-62	PAGE NO. 3 OF 3 PAGES
LOCATION 7th and Union	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	

	GEOLOGIC NOTE'S								
Depth	Classification and Physical Character								
	50.0 - 55.0 (ML) WC-89-10								
	Same as above,								
	III ML								
	II ML								
	I ML								
	55.0 - 60.0 (ML) WC-89-11								
<u></u>	Non-cohesive, silt as above								
	III ML								
	II ML								
	I ML								
	60.0 = 66.0 (ML) WC-89-12								
	Same as above								
	III Empty								
	II Empty								
	I NF								
	66.3 Concretion as before								
	66.0 - 66.5 Concretion, very hard								
	66.5 - 71.0 (ML) WC-89-13								
· ·	Same as above plus some								
	sand and gravel								
	III ML II ML								
	I ML								
	T 1417								
	1								

	[BORI	NG	NO.	ΓES					
Hole	e Siz	Meth e	 							
Ang	ie			_ Bea	ring					
FROM	то	INTERV.	INTERV. RECOV. RECOV. REMARKS							
	·									

CASING				NOTES	
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES										
TYPE SAMPLER DROP											
SMPL. NO.	L FROM TO INTERV.	REGOV.	6"	8L0	WS	24"					
10	55.0	56.5	1.5		15	28	72				
11		61.5			14	35	T				
12	66.0	66.3	3.0		30	120					
13	71.0	72.2	14		20	65	100				

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	·
TIME OF OBSERV.	

HOLE NOWC-90	DATE	Feb. 15, 1962	PAGE NO.	OF L PAGES
LOCATION7th and Valencia Sts.	JOB NO	6148-5	_	
COLLAR ELEV. 299.95	INSPECTO	ORR.J.Sco	tt	

GEOLOGIC NOTES							
Depth	Classification and Physical Character						
	0.0 - 0.3 Brick red						
	0.3 - 2.5 (SC) Clayey sand tan col- or, poorly graded sand, medium consistency						
	2.5 - 5.0 (ML) Clayey silt, light brown, damp, gritty, no consistency, medium den- sity						
	5.0 - 6.5 (ML)WC-90-1 Inorganic silt, light brown, damp, slightly dry strength, no consistency, little gritty, few sand grains III CK II CK I OK						
	6.5 - 10.0 (ML) Same as above, seems sandy						
	10.0 - 11.5 (ML) WC-90-2 Sandy silt, light brown with some fine gravel (\frac{1}{2}" diameter), damp, low consistency, earthy odor, little gray clay with cuttings						
	III OK II OK I OK I OK 11.5 - 15.0 (ML) Sandy silt, brown,						
	damp, sand is chiefly cuartz grains, low consistency						

BORING NOTES										
	Drilling Method Auger Hole Size 5"									
AngleBearing										
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS					
0.0	1.3	1.3			Tri-cone					
1,3					Auger					
					·					
-										
	 									

	С	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	

	SA		LIN		0 T	ES			
TYPE SAMPLER Solit tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"									
SMPL. NO.	FROM	TO	INTÉRV.	REGOV.	6"	8 L C)WS	24"	
1	5.0	6.5	1.5	121	7	17	36		
2		11.5	I	12"	13	32	57		

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATE Feb. 15, 1962 PAGE NO. 2 OF 1 PAGE	ES
LOCATION7th and Valencia Sts.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTORR_J. Scott	

	GEOLOG	IC NOTES							
Depth	Classificati	Classification and Physical Character							
	15.0 - 16.5	(ML) WC-90-3							
		Sandy silt, light brown,							
		with coarse and fine grav-							
		el, gravel is metamorphic							
		rocks rounded to angular,							
		$\frac{1}{2}$ " to $1\frac{1}{2}$ " in size, damp,							
		earthy odor, gritty, no							
		consistency							
	16.5 = 19.5	(ML) Same as above							
	19.5 - 20.0	(SP) Fine sand, tan color,							
		clean with very little							
		fines, angular grains, not							
		cemented, slightly damp,							
		few coarse sand grains,							
		sand is quartz grains,							
		some oxidizátion streaks							
	20.0 - 21.5	(SP) WC-90-4							
		Same as above							
		l - l" size, subangular							
		gravel particule in tip							
		(igneous origin)							
	21.5 - 22.5	(SP)Same as above							
	22.5 - 25.0	(ML) Sandy silt, light							
		brown, damp, micaceous,							
		little gritty, low consist							
		ency, earthy odor, some							
		oxidation stain							
	25.0 - 26.5	(MI) WC-90-5							
		Same a s above							
		III OK							
		II OK							
		I OK (formation)							

	Е	ORI	NG	NO	TES					
Hole	Drilling Method Auger Hole Size 5"									
AngleBearing										
FROM	REMARKS									
-										
	e	ļ								

			G NOTES
FROM	TO	SIZE	REMARKS

	SAMPLING NOTES										
TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"							_				
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLC	WS	24"			
3	15.0	16.5	1.5	12"	6	15	28				
4		21.5		12"	17	40	80				
5		26.5		12"	8	19	33				

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	No water
TIME OF OBSERV.	

HOLE NO. WC-90	DATE	Feb. 15, 1962	PAGE	NO3 OF.	PAGES
LOCATION7th and Valencia Sts.	JOB NO	61.48-5	-		
COLLAR ELEV.	INSPECTO	OR <u>R. J. Sco</u>	tt	•	

	GEOLOG	IC NOTES
Depth	Classification	on and Physical Character
	26.5 - 30.0	(ML) Sandy silt, same as
		above with some gray sandy
		silt strata, some exidatio
		stain
	30.0 - 31.5	(MI) VC-90-6
		Same as above
		III OK
		II OK
		I CK
	·	
	31.5 - 35.0	(ML) Sandy silt, brown,
		micaceous, damo
	2E 0 26 E	(ML) WC-90-7
	32.0 ~ 30.2	Sandy silt, brown, damp,
		micaceous, low dry strengt
	· · · · · · · · · · · · · · · · · · ·	and low consistency, in-
		organic, earthy odor
		III OK
		II OK
		I OK
	200	(25T) G
	30.5 - 30.0	(ML) Same as above
	38.0 1.0 0	(SM) Silty fine sand,
		gray, wet, micaceous,
		angular grains, low con-
		sistency
	40.0 - 41.	(SM) WC-90-8
		Same as above
		III OK
		II OK
		I OK
	17 K - 15 O	(ML) Sandy, clayey, silt
	41.07 = 47.00	gray with a few brown
	·	streaks, micaceous, damp,
		low consistency

	E	ORI	NG	NO.	TES					
Hole	Drilling Method Auger Hole Size 5 ^{tt}									
Ang	le	Verti	cal	_ Bea	ring					
FROM	то	INTERV.	REGOV.	% RECOV.	R E M ARKS					
					Auger					
31	·		<u>.</u>							
		<u></u>								
		ļ								
	·									
		ļ 								
		<u></u>								

	С	ASI	NG	NOTES
FROM	TO	SIZE		REMARKS
				None

	······································	5.1	LING		0 T	ES			
17PE SAMPLER 59110 0000 0000 0000 0000 0000 0000 000									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L	0W5	24"	
. 6	30.0	31.5	1.5	12"	7	17	29		
7	35.0	36.5	1.5	12"	7	22	38		
8	40.0	41.5	1.5	12"	6	21	46		

GROUND WA	ATI	ER	OBSE	ERV	ATIO	NS
DEPTH OF HOLE						
DEPTH to WATER			381			
TIME OF OBSERV.	3	AM,	Feb.	16.	1962	

HOLE NO. WC-90	DATE Feb. 15, 1962 PAGE NO. 4 OF 4 PAGES
LOCATION7th and Valencia Sts.	JOB NO. 6148-5
COLLAR ELEV.	INSPECTORR. J. Scott

	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	45.0 - 46.5 (ML) WC-90-9						
	Same as above						
	III OK						
	II OK						
····	I OK						
	46.5 - 50.0 (ML) Clayey silt, gray-						
	green, damp, dense, mic-						
	aceous, low consistency,						
	earthy odor, slightly dry						
	strength						
	50.0 - 51.5 (ML) WC-90-10						
	Same as above						
	III OK						
	II OK						
	I OK						
	Evening of Feb. 16, 1962, water level was at a depth of 24 feet when we						
	started						
	51.5 - 55.5 (ML) Clayey silt, gray-						
	green, micaceous, damp,						
	low consistency						
	55.0 - 56.5 (ML) WC-90-11						
	Same as a bove						
	III OK						
	II OK						
	I OK						
	56.5 - 61.0 (ML) Same as above						
	61.0 - 62.5 (ML) WC-90-12						
	Same as above						
	III OK						
	II OK						
	1 0K						
	T. D 62.51						

	E	BORI	NG	NO	ΓES				
Drilling MethodAuger									
Ang	Angle <u>Vertical</u> Bearing								
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
		ļ							
<u> </u>					2000				
<u> </u>	L	L		<u> </u>					

	С	ASI	NG	NOTES		
FROM	TO	SIZE		REMARKS		

SAMPLING NOTES										
TYPE SAMPLER Split tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"										
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	8 L C	WS	24"		
9	45.0	46.5	1.5	12"	9	29	57			
10	50.0	51.5	1,5	12"	11	31	58			
11	55.0	56.5	1.5	12"	11	30	59			
12	61.0	62.5	1.5	12"	16	46	83			
	\	\ 			<u> </u>	L				

GROUND WA	TER OBSERVATIONS	5
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-91	DATE2-21-62	PAGE NO. 1 OF 3 PAGES
LOCATION 7th & Witmer	JOB NO. 6148-5	-
COLLAR ELEV297.6	INSPECTOR Nercessian	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 1.0 Concrete and subgrade
	1.0 - 5.0 WC-91-1
	Silty clay, brown colored,
	medium plasticity (CL)
	III CL
	II CL
	I CL - NF Disturbed
	5.0 - 10.0 WC-91-2
	Silty sand, sand and silt
	yellow colored, hard (SM),
	damp
	III Empty
	II SM
	I SM
	10.0 - 15.0 WC-91-3
	Same as above
	III Empty
	II SM
	I SM
	·
	15.0 - 20.0 WC-91-4
	Same as above, silty
	sand
	III SM
	II SM
	I SM
	22.0 - 22.3 Gravel, sandstone
-	20.0 - 25.0 WC-91-5
	Gray-orange, fine, silty
	sand as above
	III SM
	II SM
	I SM Some gravel
	Tip: Clayey silt and sand

BORING NOTES						
Drilling Method_Rotary Hole Size5" Angle_VerticalBearing						
7119						
FROM	то	INTERV.	REGOV.	RECOV.	REMARKS	
0.0	1.0	1.0			Tri-cone	
1.0	53.0	52.0			Fish-tail	
						
					7.0	

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
0.0	2.0	5.5	

SAMPLING NOTES								
SIZE_	TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 1b DROP 30!							
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	B L (18"	24"
1	5.0	6.5	1.5		4	12	21	
2	10.0	11.0	1.0		20	82		
3	15.0	16.0	1.0		19	79		
4	20.0	21.3	1.3		23	70	100	
5	25.0	26.5	1.5		15	35	57	
<u></u>								

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-91	DATE	PAGE NO. 2 OF 3 PAGES
LOCATION 7th & Witmer	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nercessian	

LOCATIO	ON 7th & With	<u>ner</u> J	OB NO 21118-	-5	····					
COLLAR	ELEV	II	NSPECTOR	Nerces	sian		_			
	GEOLO	GIC NOTES			E	ORI	NG	NO.	ΤE	S
				Dri	lling	Meth	od			
Depth	Classificat	ion and Physic	al Character							
	25.0 - 26.0	Sand and grave	.1	$\int \int \Delta n dn$	nle			Reg	ring	
	1 20.0	Dalla alla gravo	, <u></u>		310			- 500	· · · · · ·	
	26.0 - 30.0	WC-91-6		FROM	то	INTERV.	REGOV.	% RECOV.		REM
	1	Clayey silt, m	icaceous.	-	ļ				<u> </u>	
		slightly cohes		7L						
		damp	·	71						
		III ML		7		<u> </u>				
		II ML		1	†		 	 	 	
		I ML		┦├ ──	 	<u> </u>	 	 		
				7	 	ļ			ļ	
	30.0 - 35.0	WC-91-7		1	ļ	<u> </u>	<u> </u>		ļ	
		Light brown, c	layev silt.	1L				<u> </u>	<u> </u>	
		cohesive, damp								
		III ML		7						
		II ML		7 <i>1</i>	†	<u> </u>			 	
		I ML] ـ	J	L	L	ــــــ	<u> </u>	
]		A C I	NA	<u></u>		
	35.0 - 40.0	WC-91-8]	1		NG			
		Same as above:	clayey silt	FROM	TO	SIZE	ļ	R	EMARI	K S
		III ML]						
		II ML] ـ		<u> </u>				
		I ML]						
]	<u> </u>	A MP	LIN(<u> 3 N</u>	<u>0 T</u>	<u>E S</u>
	40.0 - 45.0	WC-91-9		SIZE_	AMPLER_ 211 w	COE HAM	MER 1	0.1b	D.B.	
		Same as above		SMPL.	ERON	70	INTÉRV.	BECOV		BL
		TIT ML		NO. 6	_	31.5	-	RECOV.	4	+
		II ML		 ┛┠╬	1		I			24
		I ML		┧ ┠╌╬╌			1.5		10	27
		 		1 8		41.5		-	9	25
	<u> 45.0 - 50.0</u>	Light brown, cl		9		46.5		+	10	28
	-	cohesive, mica	ceous as	10	50.0	51.5	1.5	<u> </u>	11	32
ļ	·	abo ve	······································	┩┡	ļ		ļ	ļ	<u> </u>	-
 	<u> </u>	III ML	· · · · · · · · · · · · · · · · · · ·		 	<u> </u>	ļ	 	<u> </u>	ļ
		II ML		┧┝──	ļ				<u> </u>	<u> </u>
		I ML		- L	<u> </u>	<u> </u>				<u> </u>
				ـــــ ا						
-	<u> </u>		·	GR	<u>DUND</u>	<u>WA</u>	TER	<u> </u>	ER	VA'

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

REMARKS

DROP____3011

	O. WC-91 N 7th & Witmer	JOB NO. 61148			PAG	E NO.	<u>3</u> C)F_	3_	PA	GΕ
OLLAR	ELEV.	INSPECTOR_	Nerces	sian							
	GEOLOGIC NOTE	E S		E	BORI	NG	NO.	TE	S		
Depth	Classification and Phy	sical Character	Hol	e Siz	e						
	50.0 - 53.0 Inorganic s		Ang	gle			_ Bea	ring			
	cohesive, m above III ML II ML		FROM	то	INTERV.	RECOV.	% RECOV.		REM	ARKS	
	I ML										
				С	ASI	NG	NOT	ГΕ:	S		
			FROM	то	SIZE		R	EMARI	K S		
			TYPE S	AMPLER.	Spli	t-tuk	G N De 10 lb		ES		
			SMPL.		то		REGOV.	6"	BLC	WS	24
				53.0	54.5	1.5		11	28		
											
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											<u> </u>
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			┪├──		ļ	<u> </u>	<u> </u>				-
-			11-	 						•	
				·			·				
		·				TER	OBS	ER	VAT	[<u> 0</u>	<u>NS</u>
				OF HOL							

TIME OF OBSERV.

HOLE NO	DATE	PAGE NO. 1 OF 3 PAGES
LOCATION _ 7th & Garland	JOB NO. 6148-5	
COLLAR ELEV. 299.81	INSPECTOR_R. Singh	

	GEOLO	GIC NOTES
Depth	Classificat	ion and Physical Character
		Hole offset 0.6' N
	0.0	
 	0.0 - 0.4	Concrete
	0.4 - 5.0	(SW) Sand-gravelly, brown,
		coarse
	5.0 = 6.5	(SW) WC-92-1
		Sand-gravel mixture
		III Discarded
		II
		<u> </u>
	6,5 - 10,0	(SM) Silty sand, brown,
		damp, fine, inorganic,
		medium consistency
	10.0 - 11.5	
		III Discarded II
		I
	11.5 - 15.0	(SM) Silty sand, brown,
		dense, damp, inorganic,
	 	infrequent fine gravel
	15.0 - 16.0	WC~92~3
		III Discarded
		II
		<u> I</u>
	16.0 - 20.0	(SM) Silty sand, fine,
	1200 2000	light brown color, damp,
		infrequent coarse gravel
	100.0 07.0	Can arry the co. 1
	20.0 - 21.0	(SM-SW) WC=92=4
		Silty sand-gravel III Discarded
		II
		I

BORING NOTES								
Drilling Method Rotary Hole Size 5" Angle Vertical Bearing								
FROM	%							
0.0	0.4	0.4			Tri-cone			
0.4	43.0	39. 0			Fish-tail			
77 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -								

CASING NOTES							
FROM	TO	SIZE	REMARKS				
0	2,5	5 11	Surface collar -				
L			No casing				

			LIN		0 T	ES				
SIZE_	type sampler Split-tube size 2" wt.of hammer 140 lb drop 30"									
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	BLC)WS	24"		
1	5.0	6.5	1.5		10	30	55			
2	10.0	11.5	1.5		12	34	51			
3	15.0	16.0	1.0		23	78				
4	20.0	21.0	1.0		42	100				
			-							

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-92	DATE	PAGE NO. 2 OF 3 PAGES
LOCATION 7th & Garland	JOB NO. 6148-5	•
COLLAR ELEV. 299.81	INSPECTOR_R. Singh	

21.0 - 25.0	on and Physical Character (SW) Gravel-sand mixture, dense, angular, little fine (SW) WC-92-5 Gravel-sand mixture III Discarded
	dense, angular, little fine (SW) WC-92-5 Gravel-sand mixture III Discarded
25.0 - 26.0	(SW) WC-92-5 Gravel-sand mixture III Discarded
25.0 - 26.0	Gravel-sand mixture III Discarded
	Gravel-sand mixture III Discarded
	TT
	II
l	I
26.0 - 30.0	(SM-ML) Silty sand, be-
	coming clayey silt, light
	gray, micaceous, medium
	dense, low plasticity
30.0 - 31.5	(ML) WC-92-6
	Clayey silt, light gray,
	medium dense, inorganic,
	low plasticity
	III
	II
	1
31,5 - 35,0	(ML) Clayey silt, light
	gray, micaceous, medium
	dense, inorganic
35.0 - 36.5	(ML) WC-92-7
	Same as above
	III
	II
	I
36.5 - 40.0	(ML) Clayey silt, dark gray,
	micaceous, medium dense,
	inorganic
100 17 5	100 00 8
40.0 - 41.5	
<u> </u>	III
	II I
	30.0 - 31.5 31.5 - 35.0 35.0 - 36.5

	E	ORI	NG	N O	TES			
Drilling Method Rotary Hole Size 5" Angle Vertical Bearing								
Ang	le	ertic	a <u>ı</u>	_ Bea	ring			
FROM TO INTERV. RECOV. RECOV. REMARKS								
		<u> </u>						
					i			
			44					
	*		-					

	C	ASI	NĢ	NOTES	
FROM	TO	SIZE		REMARKS	
			·		

SAMPLING NOTES								
TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 1b DROP 3011								
SMPL. NO.	FROM	то	INTĚRV.	RECOV.	6"	B L C		24"
5	25.0	26.0	10		48	100		
6	30.0	31.5	1.5		8	22	42	
7	35.0	36.5	1.5		6	18	34	
8	40.0	41.5	1.5		12	30	50	
			·					
							,	

GROUND \	NATER	OBSERV	ATIONS
DEPTH OF HOLE			:
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO). <u>WC-92</u>	DATE	-62		PAGI	E NO.	3_(OF_	3_	РΑ	GE
LOCATIO	N 7th & Garland	_ JOB NO. <u>61</u> 1.8	<u>=5</u>		•						
COLLAR	ELEV	_ INSPECTOR_	R. Sin	gh	<u>-</u>	_					
	GEOLOGIC NO	TES		E	BORI	NG	ΝO	ΤE	S		
Depth	Classification and P	hysical Character	Hol	e Siz	Meth	5"					
	41.5 - 43.0 (ML) Same	as above, no	And	gie	ertic	al	_ Bed	ırinç]		
 	change		FROM	то	INTERV.	REGOV.	% RECOV.		REM	ARKS	
	43.0 - 44.5 WC-92-9							-		 :	
	III				<u> </u>	<u> </u>		+			
	Ī			 	†		<u> </u>	 			
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			4	C	ASI	NG	NO.	ΤE	S		
			FROM	TO	SIZE			EMAR			
]	ļ	<u> </u>						
			_	<u></u>	<u> </u>	l		· · · · · · · · · · · · · · · · · · ·			
			\dashv	S	AMP	LIN	G N	0 T	ES		
			TYPE S	AMPLER.	Spli t. of ham	t-tub	e O lb		op_3		
· ·			SMPL.				REGOV.		BLO	WS	<u> </u>
			$-\frac{1}{9}$	+	44.5			12	31	18" 61	24
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						·					
			GRO	DUND	υΔ	TFR	OBS	FR	VAT	<u> </u>	<u></u>
				OUND OF HOL) WA	TER	OBS	ER	VA	110	NS

HOLE NO	DATE	PAGE NO. 1 OF 3 PAGES
LOCATION 7th & Lucas Ave.	JOB NO. 6148-5	
COLLAR ELEV. 302.97	INSPECTOR_R. Singh	

	GEOLO	GIC NOTES
Depth	Classificat	ion and Physical Character
	0.0 - 0.4	Concrete
	0.4 - 2.5	Subgrade, sandy gravel,
		brown
	2,5 - 5.0	(SW) Brown sand-gravel
		mixture, coarse
	5.0 - 6.5	(CL) WC-93-1
		Silty clay, brown cclor, medium consistency
		III Disturbed
		II I
	6.5 - 10.0	(SM) Silty, fine sand, brown color, dense, inor-
		ganic, damp, medium con-
		sistency
	10.0 - 11.5	(SM) WC-93-2
		Silty, fine sand as above III
		I
	11.5 - 15.0	(SM) As above, no change
	15.0 - 16.5	(SM) WC-93-3
		Very dense III Discarded
		II
		I
	16.0 - 20.0	(SM-SW) Silty, fine sand,
		becoming well graded, coarse sand-gravel mixture at 19.0
		damp, inorganic

	В	ORI	NG	N O	ΓES		
BORING NOTES Drilling MethodRotary Hole Size5" Angle_VerticalBearing							
FROM	то	INTERV.	REGOV.	% R E GOV.	REMARKS		
0.0	0.4	0.4			Tri-cone		
0.4	25.0	21.0			Auger		
25.0	48.0	23.0			Auger		

	С	ASI	NG NOTES
FROM	ΤO	SIZE	REMARKS
0	0,4	511	Surface collar -
			No casing

ih										
DRC	TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"									
0v. 6"	B L C	WS	24"							
7	20	35								
8	28	62								
19	91									
	7 8	7 20 8 28	7 20 35 8 28 62							

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC=93 LOCATION 7th & Lucas Ave.	DATE <u>2-15-62</u> JOB NO. 6148-5	PAGE NO2_OF_3PAGES
COLLAR ELEV. 302.97	INSPECTOR_R. Singh_	
GEOLOGIC NO	TES	BORING NOTES
	Deilli	ng Mothod Rotary

COLLAR	ELEV302.	97 INSPECTOR_R	. Sing	gh							
	GEOLO	GIC NOTES		. [BORI	NG	N O	TE	S		
Depth	Classifica	tion and Physical Character	Drilling Method Rotary Hole Size 5"								
	20.0 - 21.0	(SW) WC-93-4] An	gle	Vertic	cal	Bea	ring			
		Sand-gravel mixture]	<u>-</u>	T	·	0/_	<u> </u>	-		
		III Empty	FROM	TO	INTERV.	RECOV.	RECOV.		REM	ARKS	
L		II Gravel	<u> </u>	 							
		I Disturbed - Gravel						ļ			
	21.0 - 25.0	(SW-GW) Sand-gravel mixture,									
		coarse becoming more	1	 	 	 	 	 			
		gravelly at 24.0	1	-	 	<u> </u>					
]	 	 -	<u> </u>					
	25.0 - 25.0	WC-93-5]								
		No penetration - hard layer			<u> </u>						
		of gravel	1								
		III No sample			 	1					
		II No sample]	†		 					
		I No sample	L	<u> </u>	<u> </u>			<u> </u>			
			ا		A 0 I	NO		-			
	25.0 - 26.0	(GW-ML) Gravelly sand]		ASI	NG					
		becoming clayey silt, gray	FROM	TO	SIZE		R	EMAR	K S		
		color, dense, low to medium]	ļ			and the state of the state of				
		plasticity	L			<u> </u>	·				
				<u> </u>	AMP	LINI	G N	ΩТ	<u> </u>		
	26.0 - 27.5	(ML) WC-93-6	TYPE S	AMPLER	Spl:	t-tu	be	<u> </u>	LJ		
		Clayey silt, gray	SIZE_	AMPLER_	T. OF HAM	MER	40 lb	_ DR	0 P	30"	
		III	SMPL.	FROM	то	INTERV.	RECOV.	6"	BL	OWS	24"
		II	1 4		21.0			l .	90		
		<u>I</u>	5	1	25.0			20	1	usa	1 N
	 		6		27.5				34		T TA
	27.5 - 30.0	(ML) Clayey silt becoming	7		31.5				28		
		more silty clay (CL?)	 ' 	50.0	31.5	1.2			20	50	
	30.0 - 31.5	WC-93-7									
		III									
		II									
		I									
	31.5 - 35.0	(ML) Clayeysilt, gray color,	GR	DUND	WΔ	TER	OBS	ER	VA.	TIO	NS
		dense, medium plasticity.		OF HOL				!	• • •	· · <u>~</u>	<u></u>
		inorganic, micaceous	DEPTH	OF WAT	ER						
		0	TIME	OF OBSE	₹V.						

			-				
	O. WC-93 DATE 2-15-6			PAGE	E NO.	<u>3</u> 01	F_3_ PAGE
	N 7th & Lucas Ave. JOB NO. 6148-5			•			
COLLAR	ELEV. 302.97 INSPECTOR B				_		
	GEOLOGIC NOTES	<u> </u>				NOT	····
Depth	Classification and Physical Character	Hole	e Siz	е	5"		
	35.0 - 36.5 WC-93-8	Ang	le	ertic	al	_ Bear	ing
	III II	FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS
	36.5 - 40.0 (ML) Same as above, no change	ä					
	40.0 - 41.5 (ML) WC-93-9 III II I						
	41.0 - 45.0 (ML) Same as above, no change						
	45.0 - 46.5 (ML) WC-93-10		С	ASI	NG	NOT	ES
	II I	FROM	то	SIZE		REI	MARKS
	46.5 - 48.0 (ML) Same as above		<u> </u>	Λ M D	I I NI	G N.C	TES

48.0 - 49.5 (ML) WC-93-11

III II

No change

	SAMPLING NOTES							
TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 1b DROP 3011								
SMPL. NO.	FROM	TO	INTÉRV.	REGOV.	6"	BLC 12"	WS	24"
8	35.0	36, 5	1.5		14	35	62	
9	40.0	41.5	1.5		12	48	102	
10	45.0	46.5	1,5		10	26	49	
11	48.0	49.5	1.5		9	26	41	
			·					

GROUND WA	TER	OBSERVAT	IONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-94	DATEDec. 2, 1962	PAGE NO. 1 OF 4 PAGES
LOCATION 7th and Bixel Streets	JOB NO. 6148-5	-
COLLAR ELEV. 306.	INSPECTOR R. Singh	

<u> </u>	GEOLOGIC NOTES
epth	Classification and Physical Character
	Hole offset 4.0' East due to overhead
	power line
······································	0.0 - 0.3 Asphalt-gravel-sand mixture
	0.3 - 2.5 Sub-grade, sand, gravel
	2.5 - 5.0 Brown sand, coarse gravel
	mixture, damp, loose
	5.0 - 6.5 (Sr) WC-98-1
	Brown sand, medium grained
	III NF Discarded
	II W Discarded
	T
····	
	6.5 - 10.0 (SP) Gravelly sand, light
	brown, medium grain, damp,
	inorganic, medium dense
	10.0 - 11.5 (3P) WC-94-2
	Same as above
	III NF Discarded
	II
	I
	11.5 - 15.0 (SP) Gravelly sand as above
	with some angular chunks
	of gravel, damp
	Of graver, damp
	15.0 - 16.5 (SP) WC-94-3
	Angular gravel - poor sample
	III Empty
	II Empty .
	I
	<u> </u>

BORING NOTES										
	Drilling Method Rotary									
		e <u> 5'</u> `~~~								
Ang	le	ertic	caı	_ Bea	ring					
FROM	TO	INTERV	REGOV.	% RECOV.	REMARKS					
0.0	0.5				Tri-cone					
0.5	61.0				Auger					
_	,,, <u>,,,,,,,,</u>									
										
			ļ <u>;</u>							
			<u> </u>							

	C	ASI	NG NOTES
FROM	то	SIZE	REMARKS
0	25	511	Surface collar

SAMPLING NOTES									
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"									
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6"	B L (18"	24"	
1	5.0	6.5	1.5		2	5	9		
2		11.5	1.5		2	<u>l</u> ı	7		
3		16.5	1.5		7	16	26		
								~~	
	l						L	اســــــــا	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-94	DATE	PAGE NO. 2 OF 4 PAGES
LOCATION 7th and Bixel Streets	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Singh	

GEOLOGIC NOTES						
Depth	Classification and Physical Character					
	16.5 - 20.0 (S ^r) Gravelly sand, more gravel, angular - sub-angular, well graded, dense, damp, some organic matter (?)					
	20.0 - 21.5 (SP) WC-94-4 Same as above III II					
	21.5 - 25.0 (SP-SC) Brown sand with some clay mixture, very gravelly, dense, damp					
	25.0 - 26.5 (SP-SC) WC-94-5 Same as above III II Silty-sand in this tube I					
	26.5 - 30.0 (SP) Light brown sand, gravel mixture, dense, damp, coarse; at 28.0' sand is compacted and be- coming more silty with clay (ML)					
	30.0 - 31.5 (ML) WC-94-6 Light gray clayey silt, dense, low to medium plasticity, inorganic III II I					

	B	ORI	NG	NO.	ΓES					
Dri	Drilling MethodRotary									
	-	e		5"						
		ertic		Bea	ring					
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS					

	С	ASIN	G NOTES
FROM	то	SIZE	REMARKS

SAMPLING NOTES										
1	TYPE SAMPLER DROP DROP									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L C	WS	24"		
4	20.0	21.5	1.5		26	65	110)		
5	25.0	26.5	1.5		33	80	184			
6	30.0	31.5	1.5		15	36	62			
			-							

DEPTH OF HOLE DEPTH OF WATER TIME OF OBSERV.	GROUND WA	TER OBSERVATIONS
	DEPTH OF HOLE	
TIME OF OBSERV.	DEPTH OF WATER	
	TIME OF OBSERV.	

HOLE NO	DATE	PAGE NO. 3 OF 4 PAGES
LOCATION 7th and Bixel Streets	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Singh	

GEOLOGIC NOTES						
Depth	Classification and Physical Characte					
	31.5 - 35.0 (ML) C layey silt, light					
	gray, some coarse sand,					
	medium dense, inorganic,					
	micaceous					
	35.0 - 36.5 (ML) WC-94-7					
	Same as above					
	III					
	II					
	I					
	36.5 - 40.0 (ML) Same as above, no					
	change, micaceous, medium					
	plasticity					
	40.0 - 41.5 WC-94-8					
	III					
	II					
	I					
	41.5 - 45.0 (ML) Same as above					
	45.0 - 46.5 WC-94-9					
	III					
	II					
	I I					
	1.6 L LO O (MI) 03					
	46.5 - 50.0 (ML) Clayey silt, dark					
	gray, micaceous, medium -					
	low plasticity, inorganic					
	50.0 - 51.5 (ML) WC-94-10					
	Same as above					
-	III					
	II					
	† †					
- 	51.5 - 55.0 (ML) Clayey silt, becomin					
	more dense					
	11010 001100					

	BORING NOTES						
		Meth					
Ang	le			_ Bea	ring		
FROM	то	TO INTERV. REGOV. REGOV. REMAR					
		<u> </u>	,	ļ			
_		<u> </u>					
	-						
	····	-					
		<u> </u>					

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

	SA	MP	LIN	3 N	0 T	ES		********
TYPE SAMPLER DROP								
SMPL. NO.	FROM	TO	INTÉRV.	REGOV.	6"	B L C	18"	24"
7	35.0	36.5	1.5		9	16	33	
8		41.5			9	25	45	
9	45.0	46.5	1.5		10	29	54	
10	50.0	51.5	1.5		13	36	76	
			-					
		L			L	L		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH TO WATER	No water in hole
TIME OF OBSERV.	

COLLAR	ELEV INSPEC	 								
	GEOLOGIC NOTES				NG				-	
Depth	Classification and Physical Ch	racter Ho	Drilling Method————————————————————————————————————							
	55.0 - 56.2 (ML) WC-94-11	An	gle			_ Bea	ıring	J		
	Hard layer at 56.2°	FROM		INTERV	REGOV.	%				
	III	FROM	10	INTERV.	REGOV.	RECOV.		REM	ARKS	
	II T									
				<u> </u>			†			
	56.2 - 61.0 (MI) Same as above, n	edium					<u> </u>			
	dense		 			 	1			
			+			†	<u>† </u>			
	61.0 - 62.5 (ML) WC-94-12						1			
	Same as above		 		 	 	+			
	III		+	 		 	+			
	II I	 }	-	-	<u> </u>		<u> </u>			
	<u> </u>		 		-		┼—			
							<u></u>			
				A C I	NC					
		FROM	TO	SIZE	NG					
			10	3126			EMARI	N 3		
	·			ļ						
			=-	\						
			S A	A M P	LIN	3 N	OT	ES		
			AMPLER_							
		SIZESMPL.		TO TO		REGOV.		OP	ows	=
	· · · · · · · · · · · · · · · · · · ·	NO.			1.2		1.5		100	24
-		12		62.5			1	35	86	
			1	0202					-	
										
I										_

HOLE NO. WC-95	DATE 2-14-62	PAGE NO. 1 OF 5 PAGES
LOCATION _7th & Francisco Sts		
COLLAR ELEV. 298.1	INSPECTOR_R. Singh	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 = 0.8 Road asphalt and concrete
	0.8 - 5.0 (GW) Gravel-sand mixture,
	brown, damp, inorganic
	5.0 ≈ 6.5 (GW) WC ≈95≈1
	Same as above
	III Discarded
	II NF
	I
	6.5 - 10.0 (GW-SP) Gravel becoming more
	sand gravel mixture, coarse
	brown color, damp inorganic
	10.0 - 11.5 (SP) WC-95-2
	Sand, gravelly, coarse,
	damp
	III Discarded
	II Disturbed
	I Disturbed
	11.5 - 15.0 (SP) Sand-gravel mixture
	15.0 - 16.5 (SP) WC-95-3
	III Empty
	II Disturbed
	I Disturbed
	16.5 - 20.0 (GW-SP-SM) Hard layer of
	gravel from 16.5: - 18.0:
	becoming sand-gravel mixture
	to silty sand
	20.0 - 21.5 (SM) WC-95-4
	Silty, fine sand, damp,
	dense, inorganic, micaceous
	III
	<u> II</u>
	<u> </u>

	BORING NOTES						
Drilling Method_Rotary Hole Size_5 Angle_Vertical_Bearing							
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS		
0	0.8				Tri-Cone		
0.8	35.5				Fish tail		

CASING NOTES							
FROM	то	SIZE	REMARKS				
_ C	2.5	511	Surface collar				
			No Casing				

	S A		LIN		0 T	ES		
TYPE SA	MPLER_		<u>lit T</u> wer_ 1	ube 40 1b) DR	OP	On	
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"	8 L (18"	24"
1	5.0	5 . 5	1.5		3	6	11	
2	10.0	11.5	5		5	12	21	
3	15.0	16.5	1.5		28	60	92	
1	20.0	21.5	1,5		9	26	5.9	
L								
						ļ		

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-95	DATE 2-11-62	PAGE NO. 2 OF 5 PAGES
LOCATION 7th & Francisco Sts.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Singh	

COLLAF	R ELEV INSPEC	TOR_R. Singh
	GEOLOGIC NOTES	BOR
Depth	Classification and Physical Cha	Hole Size
	21.5 - 25.0 (SM-SP) Silty, fine s	
	becoming poorly grade medium sand	FROM TO INTER
	25.0 - 26.0 (SP) WC-95-5	
	Sand, coarse, damp, o	dense
	III Empty	
	II	
	I	
	26.0 - 30.0 (SW-GW-SP) Sand, coar	rse to
	27.01; from 27.01 to 2	28.01
	hard gravel, coarse,	dense:
	from 28.01 to 30.01 s	sand-
	gravel mixture becomi	ing
	more gravelly	
		CAS
	30.0 - 30.7 (GW) WC-95-6	FROM TO SIZE
	Poor sample	
	III Empty	
	II	
	<u>I</u>	SAMF
	30.7 - 35.0 (GW-SP) Gravel becomi	SIZE 211 WT. OF HA
	gravel-sand mixture, thin lenses of silt a	NO. FROM TO
	layers of hard gravel	(GW) 5 25.0 26.0
		6 30.0 30.
	35.0 - 35.0 WC-95-7	7 35.0 35.0
	No penetration-gravel	
	III	
	II No sample	
	I	
	35.0 = 40.0 (GW) Gravel with coar	·se
	sand mixture, damp	
		GROUND WA
		DEPTH OF HOLE
		DEPTH OF WATER
T		

	BORING NOTES								
Dri	Drilling Method Rotary								
Hole	Hole Size5"								
Ang	Angle_Vertical_Bearing								
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
				· · · · · · ·					
		ļ							
					· · · · · · · · · · · · · · · · · · ·				
	L.,	<u></u>							

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
7					

			LIN		0 T	ES		
TYPE SAMPLER Split Tube SIZE 2!! WT. OF HAMMER 110 1b DROP 30!!								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L C		24"
5	25.0	26.0	1.0		1	102		
6	30.0	30.7	0.7		60	1007		
7	35.0	35.0	0		200	Refu:	al N	S
			e e					
							<i>'</i>	

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	O. WC-95 N 7th & Francisco Sts.	DATE2_11_6 JOB NO. 611_8_5	
COLLAR	ELEV	INSPECTOR	R. Singh
	GEOLOGIC NOT	ES	BORING NOTES
Depth	Classification and Phy	sical Character	Drilling Method_Rotary Hole Size_5"
			7 4 4 4 4 4 4 4 4 4

		INSPECTOR) (-	N 0 :				
	GEOLO	GIC NOTES					NO.		<u>`</u>		
Depth	Classifica	tion and Physical Character	Drilling Method_Rotary Hole Size5"							_	
	1,0.0 = 1,0.8	(GW) WC-95-8	Ang	jle	<i>[</i> ertion	cal	_ Bea	ring.			
		Same as above					%				
		III Empty	FROM	TO	INTERV.	RECOV.	RECOV.		REMA	RKS	
		II Empty		 		-					
		I Disturbed	 	 	 	ļ	<u> </u>	 			
	1.0 8 1.5 0	(GW-GC-ML) Gravel as above	{}	-		 	 	<u> </u>			
	40.0 - 45.0	becoming gravel-sand-clay	 		ļ						
		mixture at 41.5; from 41.5;	1		<u> </u>	ļ	<u> </u>	 			
							<u> </u>				
		to 45.0%, clayey silt, light gray, medium dense, low to	1								
		no plasticity, damp	1								
		no prastruty, damp		 	 	† • • •	 				
	45.0 - 46.5	(ML) WC-95-9					 				
		Clayey silt, light gray]								
		III] 	L	i	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	L			
		II ·]	_	A Q I	NG	NOT	r = c			
		I Plus fine sand	FROM	То	SIZE	14 6		EMARK			
				1.0	3122			EMARN	-		
	46.5 - 50.0	(ML) Silty, fine sand, very	 		 						
	<u> </u>	dense, incrganic, light gray	└──	i	<u> </u>	<u> </u>			 -		
	<u> </u>	damp	ļ -		A M D	l laki	C N	7 T (
<u> </u>			TVPE 9	AMDI ED	Si	olit. '	G N Tube				
	50.0 - 51.3	(ML) WC-95-10	SIZE_2	W.	T. OF HAM	MER_1	ı0 1b	_ DRO	P_3() II	_
		Same as above	SMPL.	FROM	то	INTERV.	REGOV.	8" 1	BL0	WS .	94
		III Disturbed	8		10.8			57	100		
		II .	9		46.5				1		
		I Plus fine sand	10		51.3		<u> </u>	9	52	50 100	
	51.3 - 55.0	(ML-GW-ML) Silty, fine sand									
	<u> </u>	as above resting on hard								$\neg \uparrow$	
		layer of gravel (52.5? -								$\neg \uparrow$	_
	·	53.5) becoming silty, fine					— —				
		sand		 		<u> </u>				\dashv	
		Sand	l	<u> </u>	 	<u> </u>	<u> </u>			\rightarrow	
				I	L	Í	Ĺ	<u> </u>	1		
			GRO	חואוו	WA	TFP	OBS	FP	<u> </u>	-101	v c
			3110	05 401		' - '\	<u> </u>	_ 11	<u> </u>	101	10

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-95	DATE 2-14-62	PAGE NO. 4 OF 5 PAGES
LOCATION _7th & Francisco Sts.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	55.0 - 56.0 (ML-SM?) WC-95-11
	Silty, fine sand, gray to
	bluish(?), organic (oil
	sand?); petroliferous, damp,
	dense
	III Discarded
	II
	I
	56.0 - 60.0 (ML-SM?) Same as above,
	high petroliferous odor
ļ	
	60.0 - 61.4 WC-95-12
	Same as above, becoming
	light gray
	III
	II
<u> </u>	I
	61.4 - 65.0 (ML-GW) ML same as above
	with hard layer of gravel
	(shale?) at 62.5' to 65.0'
	(Shate.) at Oz.) to O). O
	65.0 - 65.2 (GW) WC-95-13
	Gravel (shale?) poor
	penetration
	III Empty
	II Empty No sample
	İ Empty
	Tip: Silty, fine sand,
	light gray
	65.2 - 69.0 (ML) Clayey silt, light
	gray to 66.0'; from 66.0 to
	69.0 (GC) gravelly sand-clay
	mixture

	BORING NOTES								
Drilling Method_Rotary Hole Size_5" Angle_Vertical_Bearing									
Ang	16	0101		- Dea	riiig				
FROM	то	INTERV.	RECOV.	RECOV.	REMARKS				
	3								
	لــــــــــــــــــــــــــــــــــــــ			L					

	С	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	

SAMPLING NOTES								
TYPE SA	MPLER_	Split Gof Hami	t-tub MER_1	e 40 lb	_ DR	op3	0"	_
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLC 12"	18"	24"
11	55.0	56.0	1.0		50	100		
12	60.0	61.4	1.4		18	50	100	
13	65.0	65. 2	0.2		82/2"	Poor tion	pene	etra-
								1
		· · · · · · · · · · · · · · · · · · ·						

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

). WC-95			,	PAGE	E NO.	_5_0)F_	<u> </u>	PA	GE:
	N 7th & Francisco Sts.			h							
COLLAR	GEOLOGIC NOTE				ORI	– N Ġ	NO	TE:	S	<u>.</u>	
Depth	Classification and Phy	sical Character	Hol	lling e Siz	Meth	o d	Rotar	У			
	69.0 - 70.1 WC-95-1h III Discard II Very co		FROM	Jle ™		RECOV	T		REMA		
	gravel									-	
		A000-00-00-00-00-00-00-00-00-00-00-00-00									
						NG	NO -	ΓΕ	S		
			FROM	TO	SIZE		R	EMARI	KS		
			TYPE S	S A	MP Spl:	LIN it-tu	G N	0 T	ES		
			SIZE SMPL. NO.		TO TO		REGOV.	_ DR	BLC)WS	
			14		70.]			19	1100	18"	24'
			DEPTH	OF HOL	Ε	TER	OBS	ER	VAT	<u> </u>	NS

HOLE NO. WC-96	DATE <u>2-5-1962</u>	PAGE NO. 1 OF 4 PAGES
LOCATION 7th and Figueroa Str	eets JOB NO. 6148-5	
COLLAR ELEV. 281.0	INSPECTOR_R. Singh	
GEOLOGIC NO	TES	BORING NOTES
Depth Classification and	Physical Chatacter II	ng MethodRotary

· · · · · · · · · · · · · · · · · · ·	GEOLO	GIC NOTES
Depth	Classifica	tion and Physical Character
	0.0 - 5.0	
	50.65	(SC) WC-96-1
	7.0 = 0.7	Clayey sand, sand is fine
		to coarse
		III
		II
		I
	10.0 - 11.5	(SM) WC-96-2
<u> </u>		Silty sand, brown color
		III Discarded
		II
		I
	15.0 - 16.5	(SM) WC-96-3
		Silty sand, brown color,
		fairly dense, friable
		III
		II
		I
	20.0 - 21.5	(SP) WC-96-4
		Sand, medium grained,
		poorly graded; loose, wet,
		brown color
		III
		II
		1
	25.0 - 26.5	(SM) WC-96-5
		Sand, fine to medium grade
		silty sand, some coarse
		sand, brown color, medium
		dense
		III
		II
		I

BORING NOTES						
Hol	Drilling MethodRotary Hole Size5"					
Ang	Angle Vertical Bearing					
FROM	TO INTERV. REGOV. REGOV. REMARKS			REMARKS		
···	ļ 	ļ				
	ļ					
		<u> </u>				
			,			
			<u> </u>			
					,	

CASING			NOTES
FROM	TO	SIZE	REMARKS
			No Casing
0	2.5	5"	Surface collar

SAMPLING NOTES								
TYPE SA	MPLER_ 21 wt	OF HAM	MER	Spl: 140	it t lb _{or}	ube P	30 "	
SMPL. No.	FROM	то	INTERV.	REGOV.	6"	BLC 12"	W\$ 18"	24"
1	5.0	6.5	1.5			10		
2	10.0	11.5	1.5			15		
3	15.0	16.5	1.5			25		
. 4	20,0	21'.5	1:5			60		
5	25.0	26.5	1.5			75		
					-			

GROUND WAT	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-96	DATE2-5-1962	PAGE NO2	OF 4 PAGES
LOCATION 7th and Figueroa	Streets JOB NO. 6148-5		
COLLAR ELEV.	INSPECTOR R. Singh		i i
05010010	NOTEO	BOBINO M	O T E O

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	Note: Average blow counts taken from
,	holes Nos. WC-94 and WC-95. No water
	in hole.
	30.0 - 31.5 WC-96-6
	uravel hard III No Sample
•	II No Sample
	I No Sample
	31.5 - 33.0 WC-96-7
	Gravel
	III No Sample
	II No Sample
	I No Sample
	33.0 - 34.5 WC-96-8
	Gravel
	III No Sample
	II No Sample
	I No Sample
	34.5 - 36.0 WC-96-9
	Gravel
	III No Sample
	II No Sample
	I No Sample
	36.0 - 37.5 WC-96-10
·	Gravel
	III No Sample
	II No Sample
	I No Sample
	37.5 - 39.0 WC-96-11
	Gravel
	III No Sample
	II
	1
Į.	

		ORI	NG	NO:	TEC				
	Drilling Method Rotary								
Hole Size 5"									
Ang	le	erti	cal	_ Bea	ring				
FROM TO INTERV. RECOV. REGOV. REMARKS									

	С	ASI	NĠ	NOTES
FROM	TO	SIZE		REMARKS

ē	SAMPLING NOTES									
TYPE SAMPLER DROP DROP										
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	8 L C		24"		
6	30.0	31.5	1.5	No	pene	tra	tio	n		
7	31.5	33.0	1.5	No	pene	tra	tio	n		
8	33.0	34.5	1.5	No	pene	tra	tio	n		
9	34.5	36.0	1.5	No	pene	tra	tio	n		
10	36.0	37.5	1.5	No	pene	tra	tio	n		
11	37.5	39.0	1.5	No	pene	etra	tio	n		
							,			

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-96	DATE <u>2-5-1962</u>	PAGE NO. 3 OF 4 PAGES
LOCATION 7th and Figueroa Streets	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLOGIC NOTES								
Depth		Classificat	tion and Physical Character						
		40.0 - 41.5	WC-96-12						
			III Discarded						
			II Discarded						
			I (SW) Medium to coarse						
			gravelly sand, very dense,						
			friable, light brown color						
		ויז ב ויז ס	(SW) WC-96-13						
		41.0 - 43.0	Medium to coarse sand,						
			very slightly clay, very						
			dense, damp						
			III						
			I						
			I						
		43.0 - 44.5	(SW) WC-96-14						
			Sand, medium grained, well						
			graded, dense, brown color,						
			fairly clean						
			III, Discarded						
			II Discarded						
			I OK						
		11 2 10							
		44.5 - 46.0	(SW) WC-96-15						
		*	Sand, coarse grained, well						
	_		graded, some weathering						
			of feldspar grains to clay, dense, moist						
			III Discarded						
		, , , , , , , , , , , , , , , , , , ,	II I						
-		46.0 - 47.0	(ML) WC-96-16						
			Silty, fine sand, slight						
		······································	plasticity, moist, gray						
		<u> </u>	with oxidized brown zones						
			III Discarded						
	7		II Discarded						
			I OK						

		<u> </u>	N C	N O	T F A			
		BORI						
Dri	lling	Meth	od					
Hole	e Siz	e						
AngleBearing								
FROM	то	INTERV. RECOV. RECOV. REMARKS						
÷								
<u></u>								
,					:			
					`			

;	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

	SAMPLING NOTES										
	TYPE SAMPLER DROP DROP										
	1		·		_ DRO	BLC					
SMPL. No.	FROM	TO	INTERV	REGOV.	6"	12"	16"	24"			
12	10.0	41.5	1.5			80					
13	41.5	43.0	1.5			92					
14	43.0	44.5	1.5			65					
15	44.5	46.0	1.5			70					
16	46.0	47.0	1.0			52					
								-			

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		`

	GEOLOGIC NOTES			BORI	N Ġ	NOT	E S
Depth	Classification and Physical Character	Dril Hole	lling e Siz	Meth	o d		
	47.0 - 48.5 (SW) WC-96-17	Ang	le	·····		_ Beariı	ng
	Fine to coarse gravelly sand, very dense, friable, brown color III Discarded	FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
	I I	Y					**************************************
	52.0 - 53.5 (SW) WC-96-18 Medium to coarse gravelly						
	sand, friable, very dense, brown color						
	III Discarded II						
	I		<u> </u>				
	57.0 - 58.5 (ML) WC-96-19					NOT	

Clayey silt, very dense, dark gray color, micaceous

III "Formation" II "Formation" I "Formation"

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
			·		

SAMPLING NOTES TYPE SAMPLER								
SMPL. NO.	FROM	TO	INTERV.	REGOV.	DR)WS	24"
17	47.0	48.5	1.5			79		
18	52.0	53.5	1.5			82		
19	57.0	58.5	1.5			50		
	ļ		!					
								
							-	

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		-

HOLE NO. WC-97	DATE Jan. 31, 1962	PAGE NO. 1 OF 4 PAGES
LOCATION7th and Flower	JOB NO. 6148-5	
COLLAR ELEV. 269.149	INSPECTOR Nercessia	n

Depth Classification and Physical Character					
Dopin	Oldssilledile	m und i nysical onalaciei			
	0.0 - 0.5	Concrete, sub-grade			
1 1	0.5 - 5.0	Inorganic clay, fine,			
	1	sandy clay and silt			
	5.0 - 6.5	(CL) WC-97-1			
		Inorganic clays, fine			
		sandy clay, slightly			
		cohesive damp, yellowish			
		brown colored			
		III OK			
		II OK			
		I OK			
	5-0 - 10 0	(SC-CL) WC-97-2			
		Clayey sand and silt,			
		damp, slightly cohesive			
		III OK			
··········		II OK			
		I OK			
	10.0 - 15.0	(GM) WC-97-3			
		Silty gravels, gravel and			
		sand mixture $\frac{1}{2}$ " piece of			
		asphalt in tube III			
		III OK			
		II OK			
	2	I Sands disturbed con-			
		taining pebbles and silty			
		gravels			
	15.0 - 17.0	Sandy gravel, silt			
<u></u>	15.0 - 20.0	(GM) And loose gravel			
	20 0 27 0	Sand			
	20.0 - 21.0	Sand			
	21.5 -	Hitting a piece of cobble			
	<u> </u>	(cobble not recovered)			
		(CODDIC HOU IGOOVETER)			

D = :	BORING NOTES						
Hol	Drilling Method Rotary Hole Size 5" Angle Vertical Bearing						
FROM	,		· · ·	% RECOV.	T		
0.0	. 5	•5			Tri-cone		
.5	17.0	16.5			Auger		
17.0	56.0	39.0			Tri-cone		
			1				
*			·				
· 							

	CASING			NOTES	
FROM	TO	SIZE		REMARKS	
0.0	7.0	5			

	SAMPLING NOTES							
1	PE SAMPLER							
SIZE	W1	. OF HAM	MER		_ DR	0P		
SMPL. NO.	FROM	то	INTERV	RECOV.	6"	BLC	I8"	24"
1	5.0	7.0	2.0		2	6	15	25
2	10.0	11.5	1.5		6	13	24	
3	15.0	16.5	1.5		14	36	12	
,			,				,	
			,		<u> </u>			

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER]	
TIME OF OBSERV.	Ĭ	

HOLE NO. WC-97	DATE Jan. 31, 1962	PAGE NO. 2 OF 4 PAGES
LOCATION7th and Flower	JOB NO. 6148-5	· ·
COLLAR ELEV. 269.49	INSPECTOR Nercessian	

Depth	Classification and Physical Character
	25.0 - 26.0 WC-97-4A
· 1	Loose gravels
	III Empty
	II Empty
	I Empty
	Tip-Empty
,	
	20% hole filled up with loose gravel 3
	26.0 - 31.0 (GM & SC) WC-97-4B
	Loose sand and gravelly
	silt, some clay
	III OK
	II OK
	I OK
	31.0 - 32.5 (GM & SC) WC-97-5
	Coarse sand and gravel
	III NF
	· II NF
	I NF
	. Tip. Empty
	22 7 21 0
	32.5 - 34.0
	34.0 - 34.5 WC-97-6
	Same as above
	III NF II NF
	· ·
	I NF
	34.5 - 36.0 WC-97-7
	Same as above
	III NF
	II NF
	I NF
	36.0 - 37.5 Coarse gravel

	BORING NOTES							
	rilling Method <u>Rotary</u> ole Size_ ⁵¹¹							
Ang	Angle_VerticalBearing							
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS			
					-			

CASING				NOTES
FROM	TO	SIZE		REMARKS

TYPE SAMPLER DROP DROP								
SMPL. NO.	FROM	то	INTËRV.	REGOV.	BLOWS			
ЦA	26.0	26.5	•5		41			
4B	31.0	32.5	1.5		19	48	94	
5	32.5	33.0	•5		43	No pe	netr	atio
6	34.5	35.5	1.0		24	54		
7	36.0	37.0	1.0		32	73		
,								

DEPTH OF HOLE DEPTH OF WATER TIME OF OBSERV.	GROUND W	ATER OBSERVATIONS
	DEPTH OF HOLE	
TIME OF OBSERV.	DEPTH OF WATER	
	TIME OF OBSERV.	

HOLE NO. WC-97	DATE <u>Jan. 31, 1962</u>	PAGE NO. 3 OF 1 PAGES
LOCATION7th and Flower	JOB NO. 6148-5	•
COLLAR ELEV. 269.119	INSPECTOR_Nercessian	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	37.5 - 40.0 Bluish green clay of med-
•	ium plasticity
	40.0 - 41.5 (ML) SC-97-8A
	Clayey silt, very fine
	sands, slight plasticity
:	III NH
	II NF
	I NF
	Tip-NF
	40.0 - 41.5 WC-97-8B
	Same as above, samples not
	recovered
	41.5 - 43.0 (ML) WC-97-9
5	Clayey silt, H ₂ S odor
	green colored, dense, mic-
	aceous
· .	III CK
	II OK
	T OK
	43.0 - 44.5 (ML) WC-97-10
	Clayey silt, H ₂ S odor, mic-
	aceous, green colored,
	non-cohesive
	III CK
	II OK
	I OK
	1.1. E 1.6.0 (MT) 110.07 11
	44.5 - 46.0 (ML) WC-97-11 Same as above
	III OK
	II OK
	I OK

	E	ORI	NG	NO.	TES			
		Meth e						
Ang	le			Bea	ring			
FROM	то	INTERV. REGOV. REGOV. REMARKS						
					:			

e:								
₹-					21			

CASING				NOTES	
FROM	TO	SIZE	,	REMARKS	·····
	_				

SAMPLING NOTES								
TYPE SAMPLER DROP								
SMPL. FROM TO INTERV. RE				REGOV.	6"	B L ()W8	24"
8A	40.Q	41.5	1.5		12	27	46	
		,			7	14	22	
8B	41.5	43.0	1.5		13	37	70	
9	43.0	44.5	1.6		12	38	79	
10	44.5	46.0	1.5		15	1,2	88	
11	46.0	47.5	1.5		13	42	80	
							,	
			,					

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE	`		:
DEPTH OF WATER			
TIME OF OBSERV.			•

COLLAR	ELEV. 269.49	JOB NO. 6148-5 INSPECTOR Nero		ian							
	GEOLOGIC NOT				BORI	NG	NO.	TE	<u>s</u>	.	
Depth	Classification and Phy	sical Character	Hol	rilling Methodole Size							
	46.0 - 51.0 (ML) WC-9	1 1	Ang	ile			_ Bea	<u>ring</u>			
	Same as a very dense III OK		ROM	TO	INTERV.	REGOV.	% R E COV.		REM/	IRKS	
	II OK I OK										
	51.0 - 56.0 (ML) WC-9"										
		t, non-cohesive, green colored siltstones in	-			.2				-	
	tip III NF		·			1					
	I OK										
				С	ASI	NĜ	N O 7	ΓΕ	<u>s</u>		
		F1	ROM	TO	SIZE		RI	EMARK	18		
	-										
					MP	LIN	3 N	<u>0 T</u>	ES		
		si	12E		r. OF HAMI			_ DRO			
·	,		NO.	FROM	то	INTÉRV.	REGOV.	6"	8 L O	W8	24
	,				52.0				52		
		1	.3	56.0	56' 10'	10"		30	186		
											
											-
		······································							$\vdash \vdash \vdash$		
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HOLE NO	DATE
LOCATION _ 7th and Hope	JOB NO. 6148-5
COLLAR ELEV. 266.4	INSPECTOR Nielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 0.5 Asphalt pavement
	0.5 - 1.0 Concrete sub-pavement
	1.0 - 5.0 Brown, clayey silt, some gravel in upper 1 foot (ML)
	5.0 - 6.5 WC-98-1
	Brown, sandy, clayey silt; Damp, low plasticity (SM), alluvial sand
	IV NF III OK Disturbed II OK Disturbed
	I OK Disturbed
	6.5 - 10.0 (SM) Same as above; few cuttings retained on screen
	10.0 - 11.5 (SM) WC-98-2
	Same as above, finer grain sand, less sand IV NF
	III OK Disturbed II OK Disturbed
	I OK Disturbed 11.5 - 12.0 (SM) Same as above
	12.0 - 15.0 Sand and gravel slightly
	silty and clayey (GM)

		<u> </u>	NG	N O	TEC
	lling		od		ry, wet
		ring			
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS
		ļ			
		ļ	,		
			1		

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES										
type sampler Split-tube size 2" wt.of hammer 140 lb drop 30"											
SMPL. No.	FROM	TO	INTERV.	RECOV.	6"		18"	24"			
1	5.0	6.5	1.5			12	41				
2	10.0	11.5	1.5			9	15				
								·			
								·			

GROUND WA	TER	OBSER	VATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.	,		

HOLE NO. WC-98	DATE Jan. 30, 31, 1962 PAGE NO. 2 OF 6 PAGES
LOCATION 7th and Hope	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

GEOLOGIC NOTES								
Depth	Classifica	tion and Physical Character						
	15.0 - 15.3	₩C-98-3						
		Granite pebble gravel, no						
		fines or sand recoverable;						
		pebbles $\frac{1}{2}$ " - $1\frac{1}{2}$ " (GP)						
		IV NF						
	i i	III NF						
		II NF						
		I OK Disturbed						
	15.3 - 20.0	(GP) Same as above; hard						
		drilling						
	20.0 - 21.5	WC-98-4						
		Very fine sandy silt,						
		slightly clayey, brown,						
		slightly moist, crumbly,						
		low plasticity (ML)						
		IV NF						
		III OK						
		II OK						
		I CK						
-	21.5 - 23.0	Interbedded thin sandy silt						
		beds and gravel beds						
	23.0 - 23.9	WC-98-5						
		Brownish tan medium sand,						
		slightly silty, fairly well						
		sorted, damp, no plasticity						
	- 	(SP)						
		IV NF						
		III NF						
		II NF						
	 	I OK						
	23.9 - 25.0	(SP) Same as above						

	[BORI	NG	NO.	TES					
Drilling Method										
Ang	le			_ Bea	ring					
FROM	то	INTERV.	REGOV.	% R E COV.	REMARKS					
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		ļ								
		ļ								
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		-								
-										
					·					

	C	ASII	٧Ġ	NOTES		
FROM	TO SIZE			REMARKS		

TYPE SAMPLER								
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"		18"	24"
3	15.0	15.3	.0.3		10	30		
4		21.5				19	33	
5	23.0	23.9	0.9		199			
	_							

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-98

DATE Feb. 1, 1962

PAGE NO. 3 OF 6 PAGES

LOCATION 7th and Hope

JOB NO. 6148-5

LOCATION Nielson

	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	25.0 - 25.9 WC-98-6						
	(SP) Same as above, very						
	friable, no plasticity						
	IV NF						
	III MF						
	II OK						
	I OK						
	26.0 - 26.3 WC-98-7						
	Medium - coarse sand, silty						
<u> </u>	slightly damp, very friable,						
	no plasticity (SM)						
	IV NF						
	III NF						
	II NF						
	I OK Disturbed						
	27.0 - 27.5 WC-98-8						
	(SM) Same as above						
	IV NF						
	III NF						
	II NF						
	1 OK Disturbed						
	25.0 - 28.7 WC-98-9						
	Medium sand to fine gravel,						
	moist, loose (GM)						
	IV NF						
	13I NF						
	II NF						
	I OK Disturbed						
	29.0 - 29.5 WC-98-10						
	Gravelly, silty, sand,						
	weathered granite pebbles						
	to 1", subrounded, loose (G						
	IV NF						
	III MF						
	II NF						
	I NF						

	8	ORI	NĞ	NO.	TES				
Drilling Method									
Ang	le			_ Bea	ring				
FROM	то	INTÉRV.	REGOV.	% RECOV.	REMARKS				

1	C	ASII	NG NOTES
FROM	TO	SIZE	REMARKS

		T. OF HAM	MER		DROP			
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"	B L C	18"	24"
6	25.0	25.9	0.8		46	100		
7	26.0	26.3	0.3		30/3	20/3		
8	27.0	27.8	0.8		58 100			
9	28.0	28.7	0.7		58 100			
10	29.0	29.5	0.5		100			
	 	 						

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

Jan. 31, 1962

HOLE NO. WC-98	DATEFeb. 1, 1962	PAGE NO. 4 OF 6 PAGES
LOCATION 7th and Hope	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR_Nielson	

Depth	Classifica	tion and Physical Character
	30.0 - 30.4	WC-98-11
		(GM) Same as above; peb-
		bles to $1\frac{1}{2}$ ", well weathered
		(crumble)
		IV NF
		III NF
		II NF
		I Disturbed
		·
		· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·
,		
	31.0 - 31.7	WC_98_12
	1)1.00 -)1.01	Coarse sand, silty, brown,
		slightly moist, slightly
		silty, no plasticity (SP)
		IV NF
		III NF
		II NF
		I OK
. 1	32.0 - 32.8	WC-98-13
		(SP) Same as above
		1V NF
		III NF
		II OK Disturbed
	·	I OK
		······································

		BORI	NG	N O	TES				
		Meth							
Ang	le		*	_ Bea	ring				
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS				
		ļ							
					M				

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			·

BIZE WT. OF HAMMER					_ DR			
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L C	18"	24
11	30.0	30.4	0.4		100			
	31.0		0.7		49	100		
13	32.0	32.8	0.8		56	100		

GROUND WA	TER	OBSERVA	TIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

Jan. 31, 1962

HOLE NO. WC-98	DATEFeb. 1, 1962	PAGE NO. 5 OF 6 PAGES
LOCATION 7th and Hope	JOB NO. 6148-5	_
COLLAR FLEV	INSPECTOR Nielson	

GEOLOGIC NOTES					
Depth	Classifica	tion and Physical Character			
	33.0 - 33.6	WC-98-14			
		Gravelly sand, silty, damp,			
	<u> </u>	loose, no plasticity;			
	_	pebbles weathered (GM)			
		IV NF			
	<u> </u>	III NF			
<u> </u>	<u> </u>	II NF			
		I OK			
	34.0 - 35.6	WC-98-15			
		Light brown, very fine			
		sandy silt, slightly			
		clayey, damo, slight			
		plasticity (SM)			
		IV NF			
		III OK			
		II CK			
		I CK			
	36.0 - 37.0	WC-98-16			
	7500 7700	(SM) Same as above; very			
	<u> </u>	fine sand to medium sand;			
		no plasticity			
		IV NF			
		III NF			
		II NF			
		I OK			
	37.0 - 38.0	WC 08 37			
	151.0 - 50.0	(SM) Same as above, some			
		plasticity in upper part			
		of tube No. II			
	 	IV NF			
····		III NF			
	 	II OK			
		I· OK			
		1 01			
- +	 				
 -	 				

	E	BORI	NG	NO.	TES
Dril	lling	Meth	o d		
		е			
Ang	le			_ Bea	ring
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
		ļ			
		 -			
			-		
		ļ		ļ	
-				ļ	
		<u>l</u>			

	C	ASI	ING NOTES
FROM	то	SIZE	REMARKS

TYPE SA	MPLER_		LING					
SIZE	wT	OF HAM	MER		_ DR	0 P		
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L (18"	24"
14	33.0	33.6	0.6		69	100		
15	34.0	35.6				38	56	
16	36.0	37.0	1.0		15	86		
17	37.0	38.0	1.0		10	34		

GROUND WAT	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. 100-98

Jan. 31, 1962 Feb. 1, 1962

PAGE NO. 6 OF 6 PAGES

LOCATION 7th and Hope

JOB NO. 6148-5

COLLAR ELEV.

INSPECTOR_Nielson

epth	Classification and Physical Character
	38.0 - 39.0 WC-98-18
	Brown, silty, fine sand:
	damp, loose, - no plastici
	(SM)
	IV NF
	III NF
	II OK
	I CK
	39.0 - 43.0 (SM) Same as above, with
	some drill rate variation,
	probably more or less
	silty
	43.0 - 44.5 WC-98-19
	Brown, silty, fine sand,
	damp to dry, loose, no
	plasticity (SM)
	IV NF
	III CK
	II CK
	I CK
	44.5 - 48.0 (SM) Same as above
	48.0 - 48.9 WC-98-20
	Greenish gray, gravelly,
	silty, fine - medium sand,
	pebbles to l"; no plas-
	ticity (GM)
	IV NF
	III NF
	II OK
	I CK

·	E	ORI	<u>N G</u>	NO.	TES
Dril	ling	Meth	o d		
Hole	s Siz	e			
					ring
FROM	TO	INTERV.	REGOV.	% RECOV.	REMARKS
`					

	C	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	
	*				

	SA	MP	LIN	G N	0 T	ES		
TYPE SA		. OF HAM	MER		_ DR	0 P		
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"		is"	24"
18	38.0	39.0	1.0		48	82		
19	43.0	44.5	1.5			40	81	
20	48.0	48.9	0.9		47	100		
			,					

GROUND WA	TER	OBSER	VATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NOWC99	DATEFeb. 1, 2, 1962 PAGE NO1 OF _5 PAGES
LOCATION 7th and Grand	JOB NO. 6148-5
COLLAR ELEV. 264.6	INSPECTOR_Nielson

	GEOLOGIC NOTES					
Depth	Classification and Physical Character					
	0.0 - 0.5 Asphalt					
	0.5 - 1.1 Concrete, subpaying					
	1.1 - 5.0 Brown, silty, fine to medium					
	sand; crumbly - no					
	plasticity; slightly moist					
	(SM)					
	(SII)					
	5.0 - 6.5 WC-99-1					
	Brown, fine, sandy silt;					
	damp, slight degree of					
	plasticity (SM-ML)					
	IV NF					
	III OK					
	II OK					
	I OK					
······································	6 F 0 0 (m) m) n					
	6.5 - 9.0 (SM - ML) Same as above					
	9.0 - 10.0 Sandy gravel, granite					
	pebbles to 3"					
	10.0 - 11.0 WC-99-2					
	Silty sandy gravel: damu.					
	loose; no plasticity, sub-					
	rounded to round (GM)					
	IV NF					
	III NF					
	II OK Disturbed					
	I OK Disturbed					
	11.0 - 15.0 Gravelly sand, more sand					
	than gravel; (GM) same as					
	above, 15.0' sample made					
	no penetration					
						

	В	ORI	NG	NO.	TES		
Drilling Method Rotary Hole Size 5" Angle Vertical Bearing							
FROM	то	INTERV	RECOV.	% REGOV.	REMARKS		
0.0	10.0	10.0			Fishtail		
10.0					Tri-cone		
			-				
			,				
<u>.</u>							
ļ							

	С	AS	NG NOTES
FROM	TO	SIZE	REMARKS
0	3.0	5"	Surface seal

	SA	MP	L N (3 N	0 T	ES		
TYPE S	MPLER_	Spl:	Lt-tu MER_1	be 10 lb	_ DR	OP	10"	
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL(W8	24"
1	5. C	6.5	1.5			16	27	
2		11.0	1.0			70		
							·	
						-	,	
						-		
£					<u> </u>	<u> </u>		

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-99	DATEFeb. 1, 2, 1962 PAGE NO. 2 OF 5 PAGES
LOCATION 7th and Grand	
COLLAR ELEV.	INSPECTORNielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	15.0 - 20.0 Intercalated sandy, silty.
	gravel, gravelly, silty
	sands and silty sands with
	possibly no gravel
	(GM, GP = SM)
	· · · · · · · · · · · · · · · · · · ·
	20.0 - 22.0 Compact gravel, very hard
	drilling (GM)
	22.0 - 23.0 WC-99-3
.	Gravelly (1") silty sand
	(GM), tool passed thru thin
	1" bottom of gravel then
	ll" of easy penetration -
	probably sand (SP) SW?
	IV NF
	III NF
	II NF
	I OK Disturbed
	24.0 - 24.7 WC-99-4
	Brown, silty, slightly
	gravelly, medium grain
	sand; damp, no plasticity,
	granite pebbles 3/4" (SW)
	IV NF
	III NF II NF
	I OK
	21.7 26.0 6434
	24.7 - 26.0 Silty sandy, gravel,
	(to l3") very hard drilling
	0/ 0 0/ 5 1/3 00 5
	26.0 - 26.5 WC-99-5
	Brown, silty, gravelly, med
	ium sand; (Same as No. և) (S
	IV NF
	III NF
	II NF
	I OK Disturbed

	E	BORI			
Dril	lling	Meth	od_F	lotar	у
		e		5"	
		ertic		D	-i
Ang	16			- Dea	ring
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS

1	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

SIZE_	wT	OF HAM	MER		_ DRO	P		
SMPL. NO.	FROM	то	INTÈRV.	RECOV.	6"	BLC	18"	24
3	22.0	23.0	1.0		56	84		
4	1 !		0.7		36	70 8		
5	26.q	26.5	0.5		70			

GROUND WATER OBSERVATIONS
DEPTH OF HOLE
DEPTH OF WATER
TIME OF OBSERV.

HOLE NO. WC-99	DATE Feb. 1, 2, 1962	PAGE NO. 3 OF 5 PAGES
LOCATION 7th and Grand	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_Nielson	

	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	27.0 - X No penetration on sample						
	27.0 = 28.5 Compact gravel, sandy, very						
	hard drilling (GM)						
	28.5 - 29.0 WC-99-6						
	Brown, slightly silty,						
	fine gravelly (to $\frac{1}{2}$ "), med- ium to very coarse sand,						
	friable (GM)						
	IV NF						
	III NF						
	I NF						
	29.0 - 29.5 (GM) Same as above						
	127.0 = 27.0 (dir) baile ab above						
	29.5 - 30.0 Brown, fine, sandy, silt;						
	friable, some ½" gravel pebbles, damp; (SM plus						
	some SP)						
	30.0 - 31.5 WC-99-7						
	Micaceous, very fine, sandy						
	silt, damp, dense, gray -						
	brown, slight - medium plasticity (ML - CL)						
	IV NF						
	III OK						
	I OK						

	E	BORI	NG	NO.	TES
l	•	Meth e			
Ang	le			_ Bea	ring
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
		ļ			
		ļ			
,		<u> </u>			
		ļ			
	ļ				·····

CASING				NOTES	
FROM	TO	SIZE		REMARKS	

	S A	MP	LIN	G N	0 T	ES		
	AMPLER		M E R		DR	D P		
SMPL.	FROM	то	INTÉRV.	REGOV.	6"	8 L (24"
6	28.5	29.0	0.5		70			
7	30.0		1.5			32	50	
						<u> </u>		

GROUND WA	TER OBSERVA	<u> ATIONS</u>
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		,

HOLE NO. WC=99	DATE <u>Feb. 1, 2, 1</u> 962	PAGE NO. 4 OF 5 PAGES
LOCATION 7th and Grand	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR_Nielson	

GEOLOGIC NOTES							
Depth	Classifica	tion and Physical Character					
	31.5 = 33.0	WC=99=8					
		Brown, sandy, silt (ML),					
		same as No. 7, and gray silt					
		clay, moist, dense, med-					
		ium = good plasticity (CL)					
		IV NF					
		III OK					
<u> </u>	<u> </u>	II OK					
	 	I OK					
	22.0 22.6	WC 00 0					
	33.0 - 33.6	Brown, silty, gravelly					
		(1"), damp, medium - very					
		coarse sand; compact,					
		no plasticity (GM - SP)					
		IV NF					
	<u> </u>	III NF					
		II NF					
		I OK					
	33.6 - 34.2	(GM = SP) WC-99-10					
		Same as above, gravelly					
		$(\frac{1}{4})^n$ maximum,					
		IV NF					
		III NF					
		II NF					
		I OK					
	34.2 - 40.0	Intercalated gravelly					
	<u> </u>	sands and sandy gravels;					
<u> </u>		some hard, compact gravels					
		thin-bedded.					
	1,0,0 - X	No penetration (sample					
		hard gravel)					
							
	1 .						

	E	BORI	NG	NO	ΓES
	•	Meth e			
Ang	le	····		_ Bea	ring
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
		ļ			
		ļ			
		<u> </u>			
		 			
		-			
			_		

CASING			NOTES	
FROM	TO	SIZE		REMARKS

	wT	. OF HAMI	WER	,	DR	OP	we	_
SMPL. NO.	FROM	τo	INTERV.	REGOV.	6"	15.	18"	24
8	31.5	33.0	1.5			21	39	
9	33.0	33.6	0.6		59	B0/		
10	33.6	34.2	0.6		50	89		
								L

GROUND WATER	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

			JOB NO. 6148-5 INSPECTOR_N1	ກໄຮດກ								
OLLAR		GIC NOTE		7.5011		BORI	– N G	NO	T E S	S		
Depth		tion and Phys			lling	Meth	o d					
	40.0 - 43.5	Silty, sandy							ring			
		pact, fairly	hard drilling	FROM	то	1	1 :	% REGOV.	T	REMAI		_
	43.5 - 45.0	Gravelly, sil	ty, medium-							N B M A		
		coarse sand.						<u> </u>				
		coarse sand,	slightly silty,				<u></u>					
		hard drilling									,	
	45.0	WC-99-11									· · ·	_
		No penetratio			<u></u>					-		-
<u></u>		try; compact	gravel (GM)						 		···-	
		IV NF		-					 			
		III NF		<u> </u>					ļ			
		II NF	<u>:</u>	ļ								
		T ME		Ĺ	<u> </u>							
		.,,		<u></u>								
					<u></u>	ASI	NG	NOT	[E S	3	:.	
				FROM	TO	SIZE		R	EMARK	8		
-												
												_
		······································		·								_
						MP	LING	<u> 3 N</u>	<u>0 T I</u>	ES		_
			·	SIZE		. OF HAMI	4ER		_ DRO	P		_
	·			SMPL. NO.	FROM	то	INTĖRV.	RECOV.	69	BLOW		_
				11	15.0	45.2			2/2	18	-	_1
		· · · · · · · · · · · · · · · · · · ·				7202					1	_
												_
	1											
-												_
<u> </u>		· · · · · · · · · · · · · · · · · · ·									_	_
											7	_
							,					
								ا مبسید				-

HOLE NO. WC-100	DATE <u>2-2, -3, -62</u>	PAGE NO. 1 OF 4 PAGES
	JOB NO. 6148-5	_
COLLAR ELEV. 262.1	INSPECTOR_Nielson	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 0.5 Asphalt
	O.C. J.O. Consusts
	0.5 - 1.0 Concrete
	1.0 - 5.0 Silty, slightly clayey,
	brown, medium - very coarse
	sand; moist and wet with
	mud, slight plasticity,
	(SM-ML)
	T 0 (T 177 700 7
	5.0 - 6.5 WC-100-1
	Brown, fine gravelly,
	(3/4" rounded) silty, damp to moist, medium - coarse
	sand; no plasticity (GM)
	IV NF
	III Disturbed
	II OK
	I OK
	6.5 - 7.0 (GM) Same as above but
	mostly sandy
	7.0 - 10.0 (GM) Same as above; very
	gravelly, coarse to $1\frac{1}{2}$ ",
	fairly hard drilling
	10.0 - 10.7 WC-100-2
	Brown, silty, very gravelly,
	(1") medium - coarse sand.
	moist - no plasticity (GM)
	IV NF
	III NF
	II NF
	I OK Disturbed
,	

,	E	ORI	NG	NO.	TES
	lling e Siz			Rota	ry, wet
Ang	le	<u>erti</u>	cal	_ Bea	ring
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
0	50.5				Tri-cone
				,	
			ļ		
	ļ				

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
0	3		Surface seal

	S A	MP	LIN	G N	0 T	E\$		
TYPE SA	MPLER_	Spl:	it-tu mer 14	be O 1b	_ DR	OP	30"	
SMPL. NO.	FROM	то	INTÈRV.	RECOV.	6"	8 L ()WS	24"
1	5.0	6.5	1.5			12	1,2	
2	1	10.7			28	63		

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			·
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-100	DATE $2=2, -3, -62$	PAGE NO. 2 OF 4 PAGES
LOCATION 431 W. 7th	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR_Nielson	

· ·	GEOLOGIC NOTES		
Depth	Classification and Physical Character 10.0 - 15.0 (GM) Same as above; some	Hoi	lling e S jle_
· · · · · · · · · · · · · · · · · · ·	mud spots, (probably large		
<u> </u>	pebbles). No penetration	FROM	TO
	on 15.0' sample try		
	15.0 - 20.0 (GM) Same as above; no		
	penetration on 20.0 sample		
	try		
	20.0 - 25.0 Gravelly sand. some silty		
	zones (GM). Drilling		
	fairly smooth, fairly hard,	<u> </u>	
	possible slight lithifica-		
	tion; no penetration on		
	25.0° sample try		
		L	
	25.0 - 27.0 Gravel, granite, very hard		
	drilling; only chips coming	FROM	
	over screen (plus sand)	PROM	ТО
	(GM to GW)	 	
		L	
	27.0 - 29.0 (GM - GW) Same as above;		S
	very hard drilling	TYPE S	
	00 0 00 0 17 100 0	SIZE_	
	29.0 - 29.2 WC-100-3	SMPL. NO.	FRO
	Brown, slightly silty,		20.
	gravelly, medium - very	3	29.
	coarse sand; damp, no		
	plasticity; granite pebbles		
	well rounded; some well	ļ 	
	weathered and crumble;		
	compact (GW) IV NF		
	III NF II NF		
	I NF	L	L
	T AF	GRO	MIIN
	29.2 - 31.0 (GW) Same as above; no	DEPTH	
- +	penetration on 31.0 sample	DEPTH	
	try	TIME C	

	Е	ORI	NĠ	NO.	TES		
Drilling Method Hole Size5" AngleVertical Bearing							
FROM	то	INTERV,	REGOV.	% RECOV.	REMARKS		

	C	ASI	NG	NOTES
FROM	TO	SIZE		REMARKS

	S A	MP	LIN	G N	0 T	E S		
	MPLER_							
SMPL.	wT		Γ		_ DRC		OWS '	$=$ \downarrow
NO.	FROM	TO	INTERV.	REGOV.	8"	12"	18"	24"
	20. C	20.2	0.2		40/2"		No i	ecove
3	29. Q	29.2	0.2		40		NF	
	-							
							1	11
								

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-100	DATE $\frac{2-2, -3, -62}{}$	PAGE NO. 3 OF 4 PAGES
LOCATION 131 W. 7th	JOB NO. 611/18-5	-
COLLAR ELEV.	INSPECTOR Nielson	· · ·

·	GEOLOGIC NOTES
Depth	Classification and Physical Character
	31.0 - 33.0 (GW) Same as above; drilled
	faster and smoother (new
	bit); no penetration on
	33.0 sample try
	33.0 - 35.0 (GW) Same as above; no
	recovery on 35.0 sample try
	25 0 26 5 (CH) Cara as above
	35.0 - 36.5 (GW) Same as above
	36.5 - 37.0 Brown, silty, medium coarse
	sand; soft drilling
	37.0 - 38.5 WC-100-4
	Brown - tan, damp, very sof
	sandy silt, low plasticity,
	(ML) plus slightly gravelly
	silty, medium - coarse sand
	(GM)
	IV NF
	III NF
	II OK
	I OK
	39.0 - 39.9 WC-100-5
	(GM) Brown, silty, gravelly
	medium coarse sand, damp,
<i>;</i> 	(30% l" rounded) loose
	IV NF
- 	III NF
	II OK Disturbed
	I OK
	39.9 - 45.0 (GM) Same as above, gravel,
	smaller, plus 20%; hard
	drilling, possible cement-
	ing, no penetration on 45.0
	sample try

	BORING NOTES							
Drilling Method Hole Size5" AngleVertical Bearing								
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS			
	·							
er.								

	С	ASI	NG	NOTES
FROM	TO	SIZE		REMARKS

jı.	SAMPLING NOTES							
	TYPE SAMPLER DROP DROP							
SMPL. No.	FROM	то	INTERV	RECOV.	. 6")W\$	24"
	25.0	29.2	0.2		40			
		38.5					94	
5	39.0	39.9	0.9		50			
	,							

GROUND WA	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

LOCATIO	O. <u>WC-100</u> ON <u>431 West 7th</u> ELEV.				PAGI	E NO.	. <u>4</u> C)F_	4	PA	GES
Depth	GEOLOGIC NOT	TES	Dri	E Iling	Meth	N G					
Depin						5"					
	45.0 - 50.0 (SW - SP) slightly g	gravelly, (small	And	jie	ver cr	cal	- Rea	ring			
	gravel, ro to coarse	unded $\frac{1}{2}$ ") medium sand, damp, low	FROM	то	INTERV.	REGOV.	REGOV.	_	REM	ARKS	
	plastici ty										
		Same as above,									
	very hard IV NF			<u> </u>		ļ					
	III NF				<u> </u>	ļ					
	II Distu I Distu	· · · · · · · · · · · · · · · · · · ·									
			ſ.	С	ΔSI	NĠ	NO.	F	<u>-</u>		
			FROM	то	SIZE			EMARI			
				S	AMP	LIN	G N	ОΤ	ES	-	
			TYPE S	AMPLER.					OP		
			SMPL.		то	·	REGOV.	6"	BLC	W8	24"
			6	50.0	50.5	0.5		80			
		·									
				<u> </u>		<u> </u>					
			GRO	DUND	WA	TER	OBS	ER	VAI	10	NS
	<u> </u>	<u> </u>	}	OF HOL							

HOLE NO. WC-101	DATE2-13-62	PAGE NO. 1 OF 2 PAGES
LOCATION 7th & St. Vincent	JOB NO. 6148-5	-
COLLAR ELEV. 260.7	INSPECTOR Singh	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 0.2 Asphalt
	0.2 - 0.5 Red brick
	0.5 - 5.0 (SP) Sand, coarse, light
	brown to grayish color, dense, inorganic, damp
	5.0 - 6.0 (SP) WC-101-1
	Sand as above III NF - Discarded
	II Disturbed
	I Disturbed gravel at bottom of tube
	6.0 - 25.0 (GW) Gravel, well graded with gravel-sand mixture,
	little to no fines, thin
	lenses of coarse sand, sub- angular to angular
	25.0 - 25.0 WC-101-2
	III No Sample II No Sample
	I No Sample
	25.0 - 35.0 (GW-SC) Gravel as above to 31.0, becoming sand-clay
	mixture, brown, coarse sand, some weathered (?) matter,
	dense
	35.0 - 35.9 (SC) WC-101-3
	Sand-clay mixture, brown III Discarded
	II NF
	35.9 - 40.0 (GW) Gravel-sand mixture;
	dense, little to no fines

	BORING NOTES								
Drilling Method <u>Rotary</u> Hole Size5"									
Angle_Vertical Bearing									
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
0	1.0				Tri-cone				
1.0	5.0				Fish-tail				
5.0	35.0				Tri-cone				
35.0	40.0				Fish-tail				
₊ 0.0	55.0	-			Tri-cone				

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
0	2.5	5"	Surface collar -
			No casing

	S		LIN		0 T	E S		
TYPE SA	MPLER_	Spl:	it-tu Mer 1/1	be O lb	DR(op3	101	
SMPL. NO.	FROM	TO	INTERV	RECOV.	6"	BLC)WS	24"
1	5.0	6.0	1.0		19	50		
2	25.0	25.0			16/0"	Refu	saî	NS
3	35.0	35.9	0.9		ىلد	56/		at O
4	40.0	40.9	0, 9		33	70/9"	NP	at O.
			! 					↓
<u> </u>				<u></u>				

GROUND WATE	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

LOCATIO	ON 7th & St. Vinc	DATE . cent JOB NO INSPEC	6148-5	· · · · · · · · · · · · · · · · · · ·		•		-				-
7		C NOTES				BORI	<u></u>	NO	ΤE	<u>s</u>		
Depth		and Physical Cha		Dri	lling	Meth	od					_
	40.0 - 40.9 (GI	W) WC-101-4		Anç	ıle			_ Bea	ring			
	Sar III	me as above I Empty			1	INTERV	1		T -	REM		
		NF Discarded									;	
		W) Same as above, ange	no									_
	45.0 - 45.0 WC-	-101-5 I No sample										<u> </u>
		No sample			 	 	<u> </u>	ļ	 			
 	1	No sample				+	<u> </u>	 	 	 -		
		W) Gravel-sand mix	ture;					 	<u> </u>			
	no	change							·			
	50.0 - 50.0 WC-	_101_6			С	ASI	NG	NO	ΓE:	S		_
		I No sample		FROM	то	SIZE		R	EMARI	K S		_
	II	No sample		ļ	 	 						_
-	I	No sample		L	<u> </u>	L						_
		V-SM) Gravel-sand r			AMPLER.		it-tul	be				_
		52,5' becoming fir lty sand, brown. mi				T. OF HAMI	MER_7	10 lb	_ DRC			_
		v plasticity, dense		SMPL. NO.	-			REGOV.	6"	12"	18"	7
						45.0			20"	Ref	usal	
	55.0 - 56.2 (SM				· · · · · · · · · · · · · · · · · · ·	50.0			0"	Ref	usal 120	
		ty, fine sand, mic			65.U	56.2	1.2	<u> </u>	29	76	74"	
		own, inorganic, der	ıse	 								_
<u> </u>	II	Disturbed		 			 	<u> </u>	$\vdash \vdash$			_
<u> </u>	***			_		┿		 	 		\longrightarrow	

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			, i
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-401	DATE <u>5/5/62</u>	PAGE NO. 1 OF 4 PAGES
LOCATION St. Vincent Court	JOB NO. 6148-5	-
COLLAR ELEV. 261.0	INSPECTOR_R. Scott	

GEOLOGIC NOTES Depth Classification and Physical Character						
	0.0 - 0.4	***				
	0.0 = 0.4	ravement				
i	0.1 - 0.8	Brick layer				
		21,201, 20,0				
÷	0.8 - 3.0	(GP) Gravel-sand mixture;				
		well graded sand and				
		cobbles (cobbles and				
		gravel) 40% cobbles and				
		gravel				
	1	(010) 0 -7 - 1 - 171				
	3.0 - 10.0	(GM) Gravel sand-silt mix-				
		ture with 15-20% cobbles;				
		well-graded sand, brown				
		slightly damp, compacted; about 5% silt; cobbles are				
		angular to subrounded and				
		up to 12" in diameter				
		THE DO LE III GIAMEUEI				
		(GM) WC-401-1				
		Same as above, well graded				
		sand and gravel, with				
		15-20% cobbles				
·····	10.0 - 16.0	(GM) 25% cobbles as above;				
		5% silt; 70% well graded				
		coarse sand, brown, damp,				
		loose (little or no fines)				
	13.0 - 16.0	Infrequent h" x 8" cobbles				
		every 2-3 feet				
	76.0 20.0	(CD) Conserved and and and and and and and and and an				
	16.0 - 20.0	(GP) Gravel-sand mixture;				
		4-6" cobbles, 25% poorly graded coarse sand, brown				
		damp, compacted 70%				
		5% silt				
	20.0	(GP) WC-401-2				

	BORING NOTES							
Drilling Method_Bucket Hole Size_24"								
Ang	Angle <u>Vertical</u> Bearing							
FROM TO INTERV. RECOV. REGOV. REMARKS								
0.0	66.0	66.0			Bucket			
· 								
_			·					

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			None

		MP		0 T	ES		
		Bulk	_	_ DRO	OP		
SMPL. NO.	FROM		INTERV.	 6")WS	24"
1	10'	11.0		-	12	18	24
2	201	21.0					·····
	-						
			·····				
				 			-
				 -			
	<u></u>			 	<u> </u>		····

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	661
DEPTH OF WATER	None
TIME OF OBSERV.	·

HOLE NO. WC-401	DATE <u>5/5/62</u>	PAGE NO. 2 OF 4 PAGES
LOCATION St. Vicent Court	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	20.0 = 26.0 (GP) Cobble, gravel-sand
	mixture; damp, brown,
	little clayey;
	15% cobbles - 4"-6",
	35% gravel,
	40% coarse sand,
	10% silt and clay
	26.0 - 27.5 (GP) Gravel-sand mixture,
	50% gravel, 50% coarse to
	medium sand, brown, damp
	27.5 - 28.5 (SP) Gravelly sand; medium
	grain sand, brown damp
	28.5 - 30.0 (GP) Gravel-sand mixture;
	25-30% gravel with some
	cobbles,
	70% coarse to medium sand,
	brown, damp
	30.0 WC-401-3
	Gravelly silt; 10% gravel
	30.0 = 32.0 (ML) Inorganic silt, brown
	to red brown color, damp,
	little sandy and slightly
	clayey
	32.0 - 33.0 WC-401-4
	(Drive sample) Sandy silt,
	brown, damp, slightly
	clayey
	II OK
	I OK
	33.0 - 37.0 (SM) Sand-silt mixture,
	brown, damp, 10% gravel,
	coarse sand 80%(?), brown
	damp, 10% silt

	B	ORI	N G	NO.	TES					
Dril	lling	Meth	od_E	Bucket	5					
	Hole Size									
					ring					
Ally	16—			- Deu	ring					
FROM	то	INTERV.	RECOV.	%. REGOV.	REMARKS					

	C	ASI	NG	NOTES	
FROM	ΤO	SIZE		REMARKS	

	SAMPLING NOTES TYPE SAMPLER BULK and SPLIT-tube									
TYPE SA										
SIZE_4	<u> </u>	T. OF HAM	MER	и тр	_ DRC	<u>کـ</u> م				
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L C	18"	24"		
3	30	31.0	1							
4	32.0	33.0	ı	811	15	55				
L		<u> </u>								
<u> </u>								l		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-401	DATE	PAGE NO. 3 OF 4 PAGES
LOCATION St. Vincent Court	JOB NO. 6148-5	·
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTES								
Depth	Classification and Physical Character								
	37.0 - 44.0 (GP) Poorly graded gravel-								
	sand mixture, brown and								
	damp, little clayey								
	zones, 30% gravel, coarse to fine, angular to sub-								
	rounded;								
	60% coarse sand, some fine								
	damp:								
	10% 6" cobbles, subrounded								
	(some sandstone cobbles),								
	infrequent 8-10" cobbles								
	44.0 (GP) WC-401-6								
	Gravel-sand mixture, damp,								
	brown								
	44.0 - 45.0 (GP) Poorly graded gravel-								
	sand mixture as above								
	45.0 - 49.0 (GP) Poorly graded gravel-								
	sand mixture,								
	65-70% coarse, damp sand;								
	20% fine to coarse gravel;								
	10% cobbles 4"-6"								
	1100 500 (GP) 5000 7								
	49.0 - 50.0 (GP) Same as above, only wetter (moist)								
	we over (more)								
	50.0 WC-401-7								
	50.0 - 51.0 (SP) Poorly graded sand,								
	medium to fine grain,								
	damp, light brown color								
ı	1								

BORING NOTES Drilling Method Bucket Hole Size 24"										
				_ Bea	ring					
FROM	TO	INTERV.	REGOV.	RECOV.	REMARKS					
		-								
	· · · · · · · · · · · · · · · · · · ·	1								
		<u> </u>								
		 	<u> </u>		<u> </u>					
	· · · · · · · · · · · · · · · · · · ·									
			 	}						

	С	ASI	NĢ	NOTES	
FROM	TO	SIZE		REMARKS	
			1		
l					

SAMPLING NOTES										
TYPE SAMPLER BULK SAMPLE SIZE WT. OF HAMMER DROP										
	w T	OF HAM	MER		DRO					
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6"	12"	WS :	24"		
5	40.0		1							
6	44.0		1							
7	50.0		1							

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-401 LOCATION St. Vincent Court	DATE <u>5/5/62</u>	· · · · · · · · · · · · · · · · · · ·
COLLAR ELEV.		
CEOLOCIC NOT	F.C.	DODING NOTES

Depth Classification and Physical Character 51.0 - 57.0 (GP) Poorly graded gravel- sand mixture, gravel is Drilling Method Bucket		S	TE:	NO^{-}	NG	ORI	В		GIC NOTES	
sand mixture, gravel is subrounded and about 10-15% of mass, 85% coarse to medium sand, damp, little silty, compacted, brown color 57.0 (GP) WC-401-8 Same as above 57.0 - 65.0 (GP) Same as above with some darker brown, gravelly sand zones, moist 65.0 WC-401-9 65.0 - 66.0 (GP) Same as above 57.0 - 65.0 (GP) Same as above Same as above 57.0 - 65.0 (GP) Same as above 57.0 - 66.0 (GP) Same as above 57.0 - 65.0 (GP) Same as above 57.0 - 66.0 (GP) Same as above 57.0 - 65.0 (GP) Same as above 57.0 -					od_Bu	Meth				
subrounded and about 10-15% of mass, 85% coarse to medium sand, damp, little silty, compacted, brown color 57.0 (GP) WC-401-8 Same as above 57.0 - 65.0 (GP) Same as above with some darker brown, gravelly sand zones, moist 65.0 WC-401-9 65.0 - 66.0 (GP) Same as above (GP) Poorly graded gravel- sand mixture; 50% fine to coarse gravel, angular to subrounded; '50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½") 10 INTERV RECOV. REMARKO. REMARKO. TO INTERV RECOV. REMARKO. REMARKO. TO SIZE REMARKS SAMPLING NOTES TYPE SAMPLER SIZE WITOFHAMMER OROP SAMPLING NOTES SAMPLING NOTES TYPE SAMPLER SIZE WITOFHAMMER OROP SAMPLING NOTES SAMPLING NOTES TYPE SAMPLER SIZE WITOFHAMMER OROP SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SAMPLING NOTES SA		·····	ring	_ Bea	·····		le	Ang		
little silty, compacted, brown color 57.0 (GP) WC-L01-8 Same as above 57.0 - 65.0 (GP) Same as above with some darker brown, gravelly sand zones, moist 65.0 WC-L01-9 65.0 - 66.0 (GP) Same as above CASING NOTES FROM TO SIZE REMARKS COARSE gravel, angular to subrounded; 50% medium to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maximum gravel size 3½") SAMPLING NOTES TYPE SAMPLER SIZE WI OF HAMMER OROP WILLIAM RESON. 5 12.	ARKS	REM		% R E GOV.	REGOV.	INTERV	то	FROM	subrounded and about 10-15% of mass, 85% coarse	
57.0 (GP) WC-401-8 Same as above 57.0 - 65.0 (GP) Same as above with some darker brown, gravelly sand zones, moist 65.0 WC-401-9 65.0 - 66.0 (GP) Same as above CASING NOTES FROM TO SIZE REMARKS (GP) Poorly graded gravel- sand mixture; 50% fine to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½") SAMPLING NOTES TYPE SAMPLER SIZE WT. OF HAMMER OROP WC-401-9 SAMPLING NOTES TYPE SAMPLER SIZE WT. OF HAMMER OROP SMPL FROM TO INTERV RECOV. 5° 12° 8 57.0 1									little silty, compacted,	
Same as above 57.0 - 65.0 (GP) Same as above with some darker brown, gravelly sand zones, moist 65.0 WC-401-9 65.0 - 66.0 (GP) Same as above CASING NOTES FROM TO SIZE REMARKS COARSE gravel, angular to subrounded; 50% medium to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½") SAMPLING NOTES TYPE SAMPLER SIZE WT. OF HAMMER DROP SMPL FROM TO INTERV RECOV. 5" 12" NO. 57.0 1										
some darker brown, gravelly sand zones, moist 65.0 WC-401-9 65.0 - 66.0 (GP) Same as above 66.0 (GP) Poorly graded gravel- sand mixture; 50% fine to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½") Some darker brown, gravels in the subround gravel gr										
gravelly sand zones, moist 65.0 WC-401-9 65.0 - 66.0 (GP) Same as above CASING NOTES FROM TO SIZE REMARKS 66.0 (GP) Poorly graded gravel- sand mixture; 50% fine to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½") SAMPLING NOTES TYPE SAMPLER SIZE WT. OF HAMMER OROP SMC. FROM TO INTERV RECOV 5 12" 8 57.0 1									1944 - Artista Brandia, 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 19	
CASING NOTES 65.0 - 66.0 (GP) Same as above (GP) Poorly graded gravel— sand mixture; 50% fine to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi— mum gravel size 3½") CASING NOTES FROM TO SIZE REMARKS SAMPLING NOTES TYPE SAMPLER— SIZE WT. OF HAMMER DROP— SMPL FROM TO INTERV RECOV. 6" 12" 8 57.0 1										
66.0 (GP) Poorly graded gravel— sand mixture; 50% fine to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½1) FROM TO SIZE REMARKS SAMPLING NOTES TYPE SAMPLER— SIZE WT. OF HAMMER DROP— SMPL FROM TO INTERV RECOV. 5" 12" 8 57.0 1				<u></u>					WC-401-9	
sand mixture; 50% fine to coarse gravel, angular to subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maximum gravel size 3½11) SAMPLING NOTES TYPE SAMPLER SIZE WT OF HAMMER DROP SMPL FROM TO INTERV RECOV. 6" 12" 8 57.0 1					NG			FROM	(GP) Same as above	
subrounded; 50% medium to coarse, dark brown, sand, damp; little fine, (maxi- mum gravel size 3½1) SAMPLING NOTES TYPE SAMPLER									sand mixture; 50% fine to	
coarse, dark brown, sand, damp; little fine, (maxi-mum gravel size $3\frac{1}{2}$!) SIZE WT. OF HAMMER DROP SMPL. FROM TO INTERV. RECOV. 6" 12" 8 57.0 1							MDIED	TYPE SA	subrounded; 50% medium to	
mum gravel size 3½11) 8 57.0 1	ws *	P	_ DRO		ER	OF HAMA	WT	SIZE	coarse, dark brown, sand, damp; little fine, (maxi-	
	18"	12"	6"	REGOV.		ТО	57.0	No."		
									Hole is dry	
										

DEPTH OF WATER TIME OF OBSERV.

HOLE NO. WC-102	DATE1-23-62	PAGE NO. 1 OF 3 PAGES
LOCATION 557 Broadway	JOB NO. 6148-5	
COLLAR ELEV. 261.35	INSPECTOR Nercessian	

COLLAR	ELEV261.	<u>35</u>	NSPECTOR_	Ne	rces	sian		_					
	GEOLO	GIC NOTES				Е	ORI	NG	ΝO	TE:	S		
Depth	Classificat	tion and Physic	al Character			lling e Siz				rу			
	0.0 - 0.5	Subgrade; conc	rete	\Box	Ang	le_V	ertic	al	_ Bed	ring			
	0.5 - 3.0	Gravel		\exists	FROM	то	INTERV.	RECOV.	% REGOV.		REM	ARKS	
	3.0 - 5.0	Gravel				0.5				Tri	-co	ne_	
	5.0 - 6.0	Gravel]	1	30.0 62.0				Aug Tri		ne	
	6.0 - 7.0	Gravel											
	7.0 - 8.0	Gravel											
	8.0 - 9.0	Gravel		1									
	9.0 - 10.0	Gravel											
	10.0 - 17.5	Gravel				С	ASI	NG	NO.	TE:	<u>S</u>		
	17.5	(GM) WC-102-1 Silty gravel,			FROM	7.0	511 511		R	EMAR	(S		
		III Disturbed II Disturbed				S A	MP Spli	LIN	G N	0 T	ES		
		I Disturbed		_	SIZE_	MPLER W1	OF HAM	MER]	40 11	2. DRC	P	3011	
	18.5	Hit 3.5" grani	te pebble		SMPL. NO.	17.5	то 18.0	INTÉRV.	RECOV.	6"	12"	18"	24
	18.5 - 21.5	Sandy gravel			1(b)	21.5	23.0	1,5		24	60	76	
1-24-62	AND CAS CASS SAN SAND, CAS	eve may cap the cap cap cap cap	CON CID CHE CHE CHE	4									
	21.5 - 23.0	(GM) WC-102-1 (Silty gravel and damp, yellowish	nd sand,										
		II I Tip: 1/2" gran	ite pebble			UND OF HOLI		TER	OBS	ER	VA	ΓΙΟ	NS
				\exists		OF WATE						4.	

HOLE NO. WC-102	DATE 1-24-62	PAGE NO. 2 OF 3 PAGES
LOCATION 557 Broadway	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR Nercessia	n
GEOLOGIC NOT	ES	BORING NOTES

COLLAR	ELEV	INSPECTOR_	Ner	ces	sian							
	GEOLO	GIC NOTES					NG			3		
Depth		ion and Physical Character				Meth	od 6 ^{t∈}	Rota	ry			
	21.5 - 26.5	(GM) WC-102-2	_ _	Ang	jle <u> </u>	ertic	al	_ Bea	ring			
		Same as above III Discarded, disturbed		FROM	то	INTERV.	RECOV.	% RECOV.		REMA	RKS	·
	<u> </u>	II OK								· · · · · · · · · · · · · · · · · · ·		
		I OK Tip: 1/2" pebbles (3)										
	26.5 - 27.5	Gravel										
	27.5 - 31.0	Gravel	_ -				-					
	31.0 - 31.5	WC-102-3										
	_	III Empty	- -			ļ		<u> </u>	ļ			
		II Empty I Empty	<u> </u>	<u> </u>								
	31.0 - 37.5	Sandy gravel			С	ASI	NG	NO T	TF S	3		
	37.5 - 38.5	Same		FROM	то	SIZE			EMARK			
	38.5 - 39.5	Same	$\exists t$									
			-	. ,								
	39.5 - 41.0			TYPE SA	S A	MP Spl	LIN it-tu mer 1	G N be O 1b	OT	ES 3	Oil	
	41.0 - 42.0	Same			FROM	TO	INTERV.	REGOV.				24
	42.0 - 43.0	Same	$\dashv \llbracket$	2	26.5	27.5	1.0		60	107		
	42.0 42.0	- Control - Cont	1	<u>3</u>		31.5			143 62 3"			
	և3.0 – ևև.0	Same		4	45.0	45.3	0.3		311			
	44.0 - 45.0	(GM) WC-102-4	<u> </u>									
		III Empty										
		II Empty	-								_	
		I Empty Tip: 2" pebble (granite)	┥┖									•••••••
			$\exists \Gamma$	GRC	UND	WΆ	TER	OBS	ER	VAT	101	<u>vs</u>
	45.0 - 46.0	Sandy gravel	[EPTH	OF HOLE							
	<u> </u>			DEPTH	OF WATE	ER						

HOLE NO. WC-102	DATE 1-24-62	PAGE NO. 3	OF 3 PAGES
LOCATION 557 Broadway	JOB NO. 6148-5		
COLLAR ELEV.	INSPECTOR Nercessian		

GEOLOGIC NOTES							
Depth	Classificati	on and Physical Character					
	46.0 - 48.0	WC-102-5					
		III NF					
		II Disturbed					
		I GM (OK)					
		Tip: 1/2" granite pebble					
	48.0 - 50.0	WC-102-6					
		Sandy gravel					
		III Empty					
		II Empty					
		I Empty					
	50.0 - 52.0	(GM) WC-102-7					
	•	Sandy gravel					
		III Empty					
		II NF					
		I OK					
		Tip: (3) 1/2" granite					
		pebble					
,	52.0 - 58.0						
		III Empty					
· · · · · · · · · · · · · · · · · · ·		II Empty					
		I Empty					
		Tip: Empty					
	58.0 - 62.0	WC-102-9					
	T	III Empty					
		II Empty					
		I Empty					
		Tip: 1/2" granite pebble					
		GM (ML)					
		· · · · · · · · · · · · · · · · · · ·					
	ļ						
	<u> </u>						

	BORING NOTES										
Dri	Drilling Method Rotary										
	Hole Size 6"										
				Rea	ring						
City	10			- 004	1111y						
FROM TO INTERV. REGOV. REMARKS											
-					-						
,	<u> </u>										

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS

	SAMPLING NOTES									
TYPE S	TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L C)WS	24"		
5	48.0	48.8	0.8		64	100				
6	50.0	50.7	0.7		52	100				
7	52.0	53.0	1.0		47	94				
8	58.0	58.5	0.5		73					
9	62.0	62.5	0.5		73					

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE	Ĭ	
DEPTH OF WATER	1	
TIME OF OBSERV.		

HOLE NO. WC-103	DATE Jan. 29, 30, 1962 PAGE NO. 1 OF 3 PAGES
LOCATION 5th and Broadway	JOB NO. 6148-5
COLLAR ELEV. 265.9	INSPECTOR_Nielson

GEOLOGIC NOTES						
Depth	Classifica	ition and Physical Character				
	0.0 - 0.9	Asphalt				
	0.9 - 1.1	Concrete				
	1.1 - 5.0	Coarse sand (Granite gran- ules) fairly well sorted				
		(no fines) (GW)				
	5.0 - 6.5	WC-103-1 Gravel, silty to 1", poorly				
		sorted; granite granules, no clay (GP)				
-		IV NF				
		III NF II NF				
		I OK Disturbed				
	6.5 - 10.0	Gravel to 1½", poorly sorted; fines probably lost thru screen (GP)				
	10.0 - 11.5	WC-103-2				
		(GP) Same as above, some granite pebbles well				
		weathered IV NF				
		III NF II NF				
		I OK Disturbed				
	11.5 - 30.0	All (GP) as above; sample drivings of 2" - 3" maximum				
		on 50+ blows - no soil retained after pull-out;				
		driller estimates some sand zones between 27.0 - 30.0				
	<u> </u>					

	BORING NOTES								
Drilling MethodRotary Hole Size									
AngleBearing									
FROM	%								
			, , , , , , , , , , , , , , , , , , , ,						
			-						

CASING				NOTES	
FROM	TO	SIZE		REMARKS	
			'		

	SAMPLING NOTES								
1	TYPE SAMPLER DROP DROP								
	W1	OF HAM	MER		_ DR	0 P			
SMPL.	FROM	то	INTERV.	REGOV.	6"	BLC	18"	24"	
1	5.0	6.5	1.5			12	20	. 7	
2	10.0	11.5	1.5			28	74		
					· · · · · · · · · · · · · · · · · · ·				
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			7						
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GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-103	DATE
LOCATION 5th and Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES							
Depth	Classification and Physical C	haracter						
	30.0 - 34.0 (GP) Same as above							
<u> </u>								
	34.0 - 35.0 (GP) Same as above,	with						
	good increase in sa	nd						
	(driller estimate)	·						
	35.0 - 35.9 WC-103-3							
	Brownish tan silt,							
-	very friable, damp	to moist						
	(SM)							
	IV NF							
	III NF							
	II OK Disturbed							
	I OK Disturbed	· · · · · · · · · · · · · · · · · · ·						
	35.9 - 51.0 Gravelly sand to gr							
	increase in gravel							
	all sample drivings							
	cessful; driller es							
	transition from san							
	35.0 to gravel by							
	sample at 40.0 all	gravel -						
	no sample	······································						
	51.0 - 51.2 WC-103-4							
	(GP) Same as above.							
	from mud, pebbles to	<u>0 I''</u>						
	some silt (GP)							
	IV NF 1II NF	······································						
	II NF							
	I OK Disturbed							
	1 ON Disturbed							
	51.2 - 53.0 Granite pebble grave							
	hard drilling, cutt:							
	come over screen as							
	maximum chips; some							
	(GP) 53.0 sample try							
	no penetration with							
	olows	<u>/</u>						
	J. ONG							

	BORING NOTES								
Drilling Method Hole SizeBearing									
FROM	то	1	REGOV.	·	REMARKS				
				_					

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

	SA	MP	LIN	3 N	0 T	ES			
TYPE SA	type sampler Split tube size 2" wt. of hammer 140 lb drop 30"								
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	8 L (WS 1	24"	
3	35.0	35.9	0.9		46	100 11			
4	51.0	51.2	0.2		59/				

GROUND	<u>WATER</u>	OBSERVATION	<u>Ş</u>
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

	0. WC-103		DATE			FAGI	E. NO.	(/r <u>_</u>		PA	UŁ
			JOB NO. 6148-5									
COLLAR			INSPECTOR_Ni	Lelson								
	GEOL	OGIC NOTE	S		Ε	BORI	NG	NO.	ΤE	<u>s</u>		
Daneh	Classifica	idian and Dhu	siami Chausalau	Dri	lling	Meth	od_R	otary				
Depth	Classifica	illon and Pny	sical Character	Hol	e Siz	е	···	5"				
	53.0 - 63.0	(GP) Same as	above: verv									
			z compacted:		T	1	T	T	T			_
		gravel chips		FROM	то	INTERV.	RECOV.	R E GOV.		REM	ARKS	
			d; ranges to	_					<u> </u>		····	
		coarse sand	(possibly down	51.2	63.0	11.8				[ric	one	
		to fine sand	and silt going									
		through scre	en); no pene-									
		tration on s	ample tries	<u> </u>	 	 	-					
	<u> </u>	from 51.2 to		 					_			
				 		ļ		ļ	<u> </u>			
			· · · · · · · · · · · · · · · · · · ·									
···												
				· ·			,				- :	
		· · · · · · · · · · · · · · · · · · ·		 								
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				L		<u> </u>	<u> </u>	<u></u>	<u> </u>		<u> </u>	
												
					<u></u>	ASI	NG	<u>NO 7</u>	<u> </u>	<u>s</u>	····	
		· · · · · · · · · · · · · · · · · · ·		FROM	TO	SIZE		RI	EMARI	KS		
			/ / / / / / / / / / / / / / / / / / / /									
				L				~				
					S	A M P	LIN	G N	0 T	ES		
					MPLER_							
				SIZE_	w .	F. OF HAM	MER		_ DR	0P	we	<u> </u>
				SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	12"		24
				<u> </u>								
			·			ļ						
			."""									
	10		<u> </u>									
						Ī						
				-							·	
	<u> </u>											
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			· · · · · · · · · · · · · · · · · · ·	L	l	L		L		<u></u>	;_	<u> </u>
				GRO	טווו	WΔ	TER	ORS	FR	VAT		NS
	<u> </u>	· · · · · · · · · · · · · · · · · · ·			OF HOLE		<u> </u>	000	<u> </u>	<u> </u>	10	143
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		—	OF WAT							

HOLE NO. WC-104	DATE Jan. 23, 24, 1962 PAGE NO. 1 OF 5 PAGE
LOCATION 4th and Broadway	JOB NO. 6148-5
COLLAR ELEV. 271.9	INSPECTOR Nielson

	GEOLOGIC NOTES							
Depth	Classification and Physical Character							
	0.0 - 0.2 Concrete cement							
	0.2 - 1.4 Subgrade gravel							
	1.4 - 14.0 Brick (wall?)							
	14.0 - 14.8 Concrete (floor?)							
	14.8 - 20.0 Sandy gravel, (GW) tan, mostly gravel. Two inches							
	recovery on sample attempt, l" pebble size							
	20.0 - 22.0 (GW) Same as above							
	22.0 - 30.0 More sandy, less coarse gravel (GM). Too gravelly							
	at 25% to sample							
	30.0 - 30.6 WC-104-1							
	Gravelly silty sand, tan (GM)							
	III No recovery II No recovery							
	I Disturbed							
	30.6 - 40.0 Gravelly silty sand, tan, (GM) zones more to less gravelly							
	40.0 - 40.3 WC-104-2							
	Gravelly, silty sand, tan (GM) sampler drove 3",							
	stopped on large pebble III No recovery							
	II No recovery I No recovery							

BORING NOTES								
Drilling MethodRotary Hole Size5" AngleVertical Bearing								
FROM TO INTERV. RECOV. RECOV. REMARKS								
0.0	0.2	0.2			Tricone			
0.2	1.4	1.2			Fishtail			
1.2	45.0	43.8			Tricone			
45.0	48.0	3.0	ħu I		Fishtail			
	·							

CASING NOTES								
FROM	TO	SIZE	REMARKS					
			Surface seal					

SAMPLING NOTES							
TYPE SAMPLER							
FROM	то	INTERV.	REGOV.	6"			24"
30.0	30.6	0.6		87			
				38/ /3	No r	ecov	ery
	MPLER_2II WT FROM 30.0	MPLER	MPLER WT. OF HAMMER	MPLER	MPLER	MPLER	MPLER

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-104	DATE
LOCATION 4th and Broadway	JOB NO. 61148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES					
Depth	Classification and Physical Character					
	42.0 - 42.5 Sandy, clayey silt, brown (ML)					
	42.5 - 43.0 WC-104-3 Silty clay, slightly sandy, yellowish tan. Slightly damp, hard (CL) III No recovery	9				
	II NO recovery I Disturbed					
	43.0 - 48.0 (CL) Same as above					
	148.0 - 49.5 WC-104-4 Dark gray, micaceous, clayers silt, slightly damp, hard lil OK II OK	∋.У				
	I OK 49.5 - 53.0 (ML) Same as above					
	53.0 - 54.5 WC-104-5 Dark gray, micaceous, clayey silt, slightly damp, dense (ML)					
	III Discarded II OK I OK					
	54.5 - 55.0 (ML) Same as above					
	55.0 - 56.5 WC-104-6 Dark gray, micaceous, clayey, slightly sandy (medium coarse) silt. Damp, dense					
	IV OK III OK I OK					

BORING NOTES								
Drilling Method Rotary Hole Size 4"								
Ang	le⊻	ertic	al	_ Bea	ring			
FROM	TO INTERV. RECOV. REGOV. REMARKS							
49.5	80.0				Fishtail			
·		<u> </u>						

	С	ASI	NOTES			
FROM	TO SIZE			REMARKS		

	SAMPLING NOTES							
	TYPE SAMPLER DROP DROP							
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"		18"	24"
3	42.5	43.0	0.5		11/5			
4	48.c	49.5	1.5			37	69	
5	53.c	54.5	1.5			43	78	
6	55.C	56.5	1.5			32	62	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-104	DATE Jan. 24, 25, 1962PAGE NO. 3 OF 5 PAGES
LOCATION 4th and Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

epth	Classification and Physical Character
	56.5 - 58.0 WC-104-7
	Dark gray, micaceous, clay
	ey, slightly sandy (fine)
	silt. Damp, dense, crumbl
	IV OK Very low plasticity
	III OK (ML)
	II OK Disturbed
	I Discarded
	58.0 - 59.5 WC-104-8
	Dark gray, slightly mic-
	aceous, clayey silt.
	Slightly damp, crumbly,
	very low plasticity (ML)
	IV OK
	III OK
<u>_</u>	II OK
	I CK
	10 f (0 f (M) 110 70) 0
	59.5 - 60.5 (ML) WC-104-9
	Same as above
	IV NF
	III OK
	II OK
	I OK
	60.5 - 61.5 WC-104-10
	Dark gray, clavey silt,
	slightly damp - dry crum-
	bly, will not slice off end (ML)
	IV NF
	III NF
	II OK
	I Disturbed
	Note my depth and drillers depth check
	OK at sample No. 9 (60.5)

	BORING NOTES								
Dri	Drilling Method Fishtail								
Hole	Hole Size								
Ang	le_Ve	rtica	1	_ Bea	ring				
FROM	ТО	INTERV.	REGOV.	% R E GOV.	REMARKS				

CASING NOTES							
FROM	TO	SIZE	REMARKS				

	SAMPLING NOTES								
	TYPE SAMPLER DROP								
SMPL. No.	FROM	TO	INTÈRV.	REGOV.	6"	BL(OWS	24"	
7	56.5	58.0	1.5		•	40	73		
8		59.5				39	61		
9	59.5	60.5	1.0			49			
10	60.5	61.5	1.0			71			
	·····		<u> </u>				اا		

GROUND WA	TER	OBSERVAT	IONS
DEPTH OF HOLE			,
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-104	DATE
LOCATION 4th and Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES							
Depth	Classifica	tion and Physical Character						
	61.5 - 63.0	Note drillers depth						
	64.5	WC-104-11						
		Same as above, more clayey,						
		less crumbly						
L		IV Discarded						
		III OK						
		II OK						
		I OK						
ļ	64.5 - 66.0							
		Dark gray, slightly sandy,						
		pebbly, slightly clayey						
		silt. More crumbly, very						
<u> </u>		low plasticity, abundant						
ļ		pecten shell fragments						
<u> </u>		IV OK						
<u> </u>		III OK						
		II Discarded						
		I OK						
	(() (7)	NO 201 22						
ļ	66.0 - 67.5							
		Dark gray, clayey silt.						
		Slightly sandy, low plas-						
		ticity, more plastic than						
<u> </u>		No. 12 (ML)						
		IV Discarded						
		III OK						
		II OK						
		I OK Disturbed						
-	17 T 60 0	Tank manager						
	67.5 - 69.0	Lost sample						
	+							
-	1							
	<u> </u>							
	<u> </u>							

	BORING NOTES							
	Drilling Method							
Ang	le			_ Bea	ring			
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS			
		<u> </u>						
		ļ			· · · · · · · · · · · · · · · · · · ·			
	·	<u> </u>						
			-					
				Ĺ				

CASING				NOTES	,
FROM	TO	SIZE		REMARKS	

	SAMPLING NOTES								
l	TYPE SAMPLER DROP DROP								
SMPL. No.	FROM	TO	INTERV.	RECOV.	6"		OWS	24"	
11	61.5	64.5	1.5			49	119		
12	64.5	66.0	1.5			62	120		
13	66.0	67.5	1.5			47	88		

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		·

HOLE NO. WC-104	DATE
LOCATION 4th and Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

GEOLOGIC NOTES							
Depth	Classification and Physical Cha	racter					
	69.0 - 70.5 WC-104-14	·					
	Dark gray, clayey sil	t, to					
	silty clay, some poss:	ible					
	shell fragments, dense	•					
	slightly crumbly						
	IV OK Low plasticity						
	III OK (ML CL)						
	II OK						
	I OK						
	70.5 - 75.0 (ML - CL) Same as above	7e					
	75.0 - 76.5 WC-104-15						
	Dark gray, clayey sil						
	plasticity, damp, den	ر 36					
	some very fine sand						
	IV OK (ML CL)						
	III OK						
	II OK						
	I OK						
	76.5 - 80.0 (ML - CL) Same as abo	ve					
ļ	80.0 - 81.5 WC-10L-16						
	(ML, CL) Same as above						
	slightly more plastic	LUY					
	IV OK						
	III OK						
	II OK						
	I OK						
 							
	i						
l I							
 							

	BORING NOTES								
	Drilling Method								
l					ring				
FROM	то	INTERV	RECOV.	% RECOV.	REMARKS				
		ļ	<u> </u>						
		<u> </u>							
-	*								

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

	SAMPLING NOTES								
	TYPE SAMPLER DROP DROP								
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	BLOWS "			24"	
14	69.0	70.5	1.5			487	89		
15	75.0	76.5	1.5			38	71		
16	80.0	81.5	1.5			47	78		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATE
LOCATION 333 Broadway	JOB NO. 6148-5
COLLAR ELEV. <u>277.88</u>	INSPECTORNielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 0.5 Concrete
	0.5 - 5.0 Brownish gray, sandy,
	clayey, slightly gravelly silt; wet (with mud?),
	good plasticity (MH-OH)
	5.0 - 6.5 (SW-SM) WC-105-1
	Sandy, gravelly, clayey silt, grayish brown, moist
	no plasticity.
	IV NF III NF
	II NF
	I OK
	6.5 - 8.0 (SW-SM) Same as above
	5.0 - 10.0 Sandy gravel (GM), to 1"
	granite monzonite pebbles granules
	10.0 - 10.5 (GM) WC-105-2
	Same as above. Pebbles
	to 1" granite-monzonite. Partly sandy silty (SW)
	īV ŅF
	III NF
	II NF I Disturbed, loose grave
	10.5 - 15.5 (GM) Same as above
	15.5 - 16.0 Hard drilled as cement-
	concrete; granite pebbles coming over screen
	16.0 - 16.5 Gray plus brown, silty,
	slightly sandy clay
	(CL-CH?)

	BORING NOTES								
Hol	Drilling Method_Rotary Hole Size5" AngleVerticalBearing								
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS				
0.0	1.5	1.5			Tricone				
1.5	73	20.5			Fishtail				
<u> </u>									
<u></u>	<u> </u>		ļ						
ļ									

CASING NOTES									
FROM	то	SIZE	REMARKS						
0	3	5	Surface seal						
		I							

	SAMPLING NOTES								
	TYPE SAMPLER Sleeves split								
	W1	OF HAM	MER		_ DRO				
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	BLC 12"	WS	24"	
1	5.0	6.5	1.5				15		
2		10.5			18	Sto	ged		

GROUND WA	TER	OBSERVA	TIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-105	DATE
LOCATION 333 Breadway	JOB NO. 61148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	16.5 - 18.0 (ML) WC-105-3
	Brown, micaceous, clayev
	silt, good plastic,
	gray, silty, clayey, very
	fine sand, low plas-
	ticity
	IV NF
	III OK
	II OK
	I OK
	18.0 - 20.0 (ML) Same as above
	10.0 = 20.0 (III) baile ab above
	20.0 - 21.5 (ML) WC-105-4
	Dark gray, micaceous silt.
	damp, dense, some shells
	damp, dense, some siteris
	IV Discarded
	III OK
	II OK
	I OK
	21.5 - 25.0 (ML) Same as above
	25.0 - 26.5 (ML) WC-105-5
	Dark gray, clayey silt,
	slightly damp, dense,
	shell fragments, one 3/4"
	granite pebble
	IV NF
, , , , , , , , , , , , , , , , , , , ,	III OK
	II OK
	I NF
	26.5 - 30.0 (ML) Same as above
i	

BOBIAIC NOTEC									
	BORING NOTES								
Drilling Method									
Hole	e Siz	e							
					ring				
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS				
		ļ							
<u> </u>									

CASING NOTES							
FROM	TO	SIZE	REMARKS				

	TYPE SAMPLER DROP							
W5	24"							
36								
38								
48								
_	36 38							

GROUND WA	TER	OBSER	VATIO	NS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO	DATE
LOCATION333 Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	30.0 - 31.5 (ML) WC-105-6
	Dark gray, clayey silt,
	slightly damp, some more
	clayey, all low plasticit
	IA OK
	III Disturbed, discarded
	II OK
	· I OK
	31.5 - 35.0 (ML) Same as above
	35.0 - 36.5 (ML) WC-105-7
	Dark gray, slightly mic-
	aceous, clayey silt;
	slightly damp, very low
	plasticity
	IV OK
	III OK
	II OK
	I OK
	36.5 - 40.0 (ML) Same as above
	40.0 - 41.5 (ML) WC-105-8
	Same as above, some shell
	fragments, low plasticity
	IV NF
	III OK
	II OK
	I NF
ļ	
	41.5 - 42.0 (ML) Same as above
ļ	
<u> </u>	42.0 - 42.3 Hard sandstone, (drillers
-	estimate)
	12 2 15 0 Dayle grove (MT) game as
-	42.3 - 45.0 Dark gray (ML), same as
 	above
l	

	BORING NOTES						
	lling		o d				
Ang	le	******	 	_ Bea	ring		
FROM	то	INTERV.	RECOV.	% REGOV.	REMARKS		
3.		ļ					
		<u> </u>			<u> </u>		
					:		

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
		1	

SAMPLING NOTES								
TYPE SAMPLER DROP DROP								
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLC	I8"	24"
6	30.0	31.5	1.5			27	50	
7	35.0	36.5	1.5			24	48	
8	40.0	41.5	1,5			38	84	
			·					

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-105	DATEJan. 25, 26, 1962PAGE NO4 OF _ 7 PAGES
LOCATION 333 Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR Nielson

GEOLOGIC NOTES						
Depth	Classification and Physical Character					
	45.0 - 46.6 (ML) WC-105-9					
	Dark gray, clayey silt,					
	slightly damp, dense, low					
	plasticity					
	IV NF					
	III OK					
	II OK					
	I OK					
	46.6 - 48.0 (ML) Same as above					
	48.0 - 49.5 (ML) WC-105-11					
	Dark gray, slightly micac					
	eous, clayey, slightly					
	damo, dense, low plastic					
	silt					
	IV OK					
	III OK					
	II OK					
	I OK					
	49.5 - 51.0 (ML) WC-105-10					
	Dark gray same as					
	above					
	IV NF					
	III OK					
	II OK					
	I OK					
	51.0 - 52.5 (ML) WC-105-12					
	Dark gray, micaceous,					
	clayey silt, as above					
	IV CK					
	III OK					
	II OK					
	I OK					
	<u> </u>					

	- 6	BORI	NG	NO.	TES			
Hole	Drilling Method Hole SizeBearing							
Ang	1e			- Rea	ring			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
<u> </u>		 						
		 		<u> </u>				
,		-						
		<u> </u>						
		ļ						
	-							

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

7 V D F . 6 /	SAMPLING NOTES							
TYPE SAMPLER DROP								
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL:	OWS_	24"
9	45.0	46.6	1.5			40	77	
10	48.0	49.5	1.5			38	67	
		51.0				28	46	
12	51.0	52.5	1.5			32	59	
		,						

GROUND WA	TER	OBSERVATIO	NS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO	DATE
LOCATION 333 Broadway	JOB NO. 6148-5
COLLAR ELEV.	INSPECTOR_Nielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	52.5 - 54.0 (ML) WC-105-13
	Dark gray, micaceous,
	clayey silt, slightly dam
	dense, low plasticity
	IV OK
	III OK
	II OK
	I OK
	54.0 - 55.5 (ML) WC-105-14
	Same as above with some
	very small shell fragments
	IA OK
	III OK
	TI OK
	I OK
	55.5 - 57.0 (ML) WC-105-15
	Same as above, slightly
	more plastic
	IV OK
	III OK
	II OK
	I OK
	57.0 - 58.0 Contacted hard drilling -
	possible rock from above
	pushed aside at 58;
	otherwise ML as above
	58.0 - 59.5 (ML - CL) WC-105-16
	Dark gray, dense, clayey
	silt. Slightly damp to
	slightly moist; low to
	slightly plastic
	IV Discarded
	III OK
	II OK
	I OK

	В	ORI	NG	NO.	ΓES				
Hole	Drilling Method Rotary Hole Size 5" Angle Vertical Bearing								
FROM	то	INTERV.	REGOV.	% R E COV.	REMARKS				
					3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				
			<u></u>						

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS

SIZE WT. OF HAMMER DROP								
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	BL0)WS	24"
13	52.5	54.0	1.5			36	64	
14	54.0	55.5	1.5			36	611	
15	55.5	57.0	1.5			38	65	
16	58.0	59.5	1.5			34	74	
						<u> </u>		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO.	WC-105	DATE	Jan.	26,	27,	1967	PAGE	N O	6	OF_	7	PAGE	S
LOCATION	333 Broadway	JOB NO.	6148-	5									
COLLAR ELE	V	INSPECT	OR_	Niel	son								

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	59.5 - 61.0 (ML+CL) WC-105-17
	Dark gray, as
	above
	IV OK
	III OK
	1 OK
	61.0 - 63.0 Intercalated ML-CL as
	above with hard dark gray
	shale; cuttings chips to
ļ	3/4"; fishtail penetrated
	(slowly); shale from pos-
	sible fractured or very
ļ	thin beds zone 62.0 - 63.0
	drilled smoothly - as
	shale (driller); one chip
 	of cuttings in sample box;
	lost 10 gallons mud at 62'
	63.0 - 64.2 (ML-CL) WC-105-18
	Sampler stopped at 16",
	dark gray clayey silt to
	silty clay; slightly moist
	low to slight plasticity
	IV OK
	III OK
	II OK
<u> </u>	I OK
	64.2 - 68.0 Dark gray (ML-CL)
	Same as above
<u> </u>	
	:
 	
	<u> </u>

	BORING NOTES												
Hole	Drilling Method Rotary Hole Size 5" Angle Vertical Bearing												
Angle vertical Bearing													
FROM TO INTERV. RECOV. RECOV. REMARKS													
					*** · · · · · · · · · · · · · · · · · ·								
<u> </u>		ļ											

	C	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
			·

SIZE WT. OF HAMMER DROP											
SMPL. NO.	FROM	TO	INTÊRV.	RECOV.	6"	BL(18"	24			
17	59.5	61.0	1.5			50	97				
18	63.0	64.2	1.2			47	79				
	^		,								
			,								

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	O. WC-105 DATE Jan.	26, 27,	196	PAGE	E NO.	<u>7</u> C)F_	7	PAG	GES	
LOCATIO	N 333 Broadway JOB NO. 6148-	·5	·····								
	ELEV INSPECTOR_				_						
	GEOLOGIC NOTES		E	ORI	NG	NO.	TE:	<u>s</u>			
Depth	Classification and Physical Character	11									
	68.0 - 69.5 (ML-CL) WC-105-19	AngleBearing									
	Dark gray, same as	41				% R E COV.					
	above to damp	FROM	ТО	INTERV.	REGOV.	R E COV.		REMA	IRKS		
	IV OK										
	III OK		 	<u> </u>	 	 	 				
<u> </u>	II OK	┨┝──	ļ	<u> </u>	ļ		├				
	I OK	┦┝──	ļ	ļ			 				
	(0.5′ 53.0 (MT 0T)	-	<u> </u>								
	69.5 - 73.0 (ML-CL) same as above	-									
<u> </u>	73.0 - 74.5 WC-105-20	$\dashv \Gamma$									
	**************************************	-	1								
-	Dark gray, slightly mic-	┤├ ──	<u> </u>	 			 	···			
	aceous, dense, slightly	$\dashv \vdash -$	·				 				
-	damp, clayey silt IV OK	┦┝──	-	<u> </u>	ļ		 				
	III OK	┤Ĺ									
	II OK					···					
	I OK	- L	C	ASI	NG	NOT	[E :	<u>S</u>			
	1 ON	FROM	то	SIZE		R	EMARK	(S			
		1									
		1		<u> </u>	L						
		1									
			S	MP	LIN	G N	<u>0 T</u>	ES			
		11	AMPLER.								
		SIZE		. OF HAM			_ DRC		WS T		
			FROM			REGOV.	6"		18"	_	
		19		69.5		 	 		102		
		20	73.1	74.5	1.5			50	98		
		⅃ ├──	<u> </u>				ļ	 	\vdash		
		┛┝ ──	ļ	ļ			ļ	\vdash			
		⅃ ┣──	ļ		ļ						
		↓	<u> </u>	<u></u> _							
		-	ļ						 		
					\ 						
<u> </u>		- L									
ļ		┨┌╌									
		1			TER	OBS	ER	<u>VAT</u>	101	<u>NS</u>	
	}	DEPTH	OF HOL	E							

HOLE NO. WC-106	DATE1-17-62	PAGE NO. 1 OF 4 PAGES
LOCATION Broadway No. of 3rd St.	JOB NO. 6148-5	-
COLLAR ELEV283.05	INSPECTOR R. Scott	

GEOLOGIC NOTES										
Depth	Classification and Physical Character									
	0.0 - 0.5 Concrete									
	0.5 - 5.0 (ML) Sandy clay, brown, low									
	plasticity, damp, inorganic									
	5.0 - 6.5 (SM) WC-106-1									
	III Disturbed									
	II (SM) Silty sand									
	mixture, damp, brown, low plasticity, no									
	dry strength									
	I (SM) Silty sand									
	The state of the s									
	6.5 - 7.0 (SM)									
	7.0 = 10.0 (GP) Poorly graded gravel,									
	fine and coarse size, no									
	or little fines									
	10.0 Tried to take sample, no									
	drive, sample WC-106-2									
	(coarse gravel) (GP)									
	I Sample from shaker									
	10.0 - 15.0 (GP) Fine to coarse gravel									
	with layers of coarse grave]									
	15.0 - 17.0 (GP) WC-106-3									
	No sample									
	II Sample from shaker									
- -	I Sample from shaker									
	17.0 - 18.5 (ML) WC-106-4									
	III (ML & GP) Disturbed									
	III (ML & GP) Disturbed II (ML) Silty clay, brown									
	I (ML) Damp, low plas-									
	ticity, earthy odor.									
	low dry strength									
	18.5 - 22.0 (ML) Micaceous, dense									

Dri	BORING NOTES Drilling Method Rotary											
Hole Size <u>5"</u> Angle <u>Vertical</u> Bearing												
FROM TO INTERV. REGOV. REMARKS												
0	0.5	0.5			Tri-cone							
0.5	10.0	9.5			Fish-tail							
10.0	15.0	5.0			Tri-cone							
15.0	15.0	0			Core							
15.0	18.5	3,5			Tri-cone							
18.5					Fish-tail							
<u> </u>												

	С	ASI	NĠ NOT	ES
FROM	то	SIZE	REM	ARKS
0	2.0	511		

	SAMPLING NOTES TYPE SAMPLER SPLIT-tube											
TYPE SA	TYPE SAMPLER SPILT-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"											
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	BLC	WS	24"				
1	5.0	6.5	1.5	12"		11	22					
2	10.0	10.0	0	Gra	vel							
3	15.0	15.0	0									
. 4	17.0	18.5	1.5	18"		25	51					
							·					

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-106	DATE <u>1-17-62</u>	PAGE NO. 2 OF 4 PAGES
LOCATION Broadway No. of 3rd St.	JOB NO. 6148-5	<u>.</u>
COLLAR FLEV	INSPECTOR R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	22.0 - 23.5 (ML) WC-106-5
	III (ML) Same as above
	II (ML) Micaceous, dense
	I (ML) Micaceous, dense
	23.5 - 27.0 (ML) Clayey silt, brown,
	dense, damp, micaceous, low
	plasticity
	27.0 - 28.5 (ML) WC-106-6
	III (ML) Same as above
	II (ML) Same as above
	I (ML) Same as above
	28.5 - 32.0 (ML)
	32.0 - 33.5 (ML) WC-106-7
	III (ML) Same as above
	II (ML) Same as above
	I (ML) Same as above
	All samples disturbed
	33.5 - 36.0 (ML)
	36.0 - 37.5 (ML) WC-106-8
	III (ML) Disturbed
	II (ML) Disturbed
	I (ML) Disturbed
	All same as above
	37.5 - 39.0 (ML) WC-106-9
	III Same as above
	II Same as above
	I Same as above
1-18-62	
	39.0 - 40.5 (ML) WC-106-10
	III Same as above
	II Same as above
	I Same as above

BORING NOTES								
Drilling Method Rotary								
Hole Size 5"								
Ang	Angle Vertical Bearing							
FROM TO INTERV. RECOV. RECOV. REMARKS								
22.0	22.0 23.5 1.5 Core							
23.5			Fish-tail					
27.0	28.5	1.5			Core			
32.0	33.5	1.5			Core			
.36.0	37.5	1.5			Core			
37.5	39. C	1.5			Core			
39.0	41.5	1.5			Core			
4								
					,			

CASING			NG NOTES
FROM	то	SIZE	REMARKS
0	21	5"	

SAMPLING NOTES TYPE SAMPLER Split-tube SIZE 2!! WT. OF HAMMER 1/10 1b DROP 30!!									
SMPL. NO.	FROM	то	INTERV	REGOV.	6"	BLC	18"	24"	
5	22.0	23.5	1.5	18"		26	47		
6	27.0	28.5	1.5	18"		33	62		
7	32.0	33.5	1.5	18"		28	44		
8	36.0	37.5	1.5	16"		33	64		
9	37.5	39.0	1.5	18"		32	58		
10	39.0	40.5	1.5	18"		32	59		
			· · · · · · · · · · · · · · · · · · ·						

GROUND WA	TER	OBSERVA	TIONS
DEPTH OF HOLE			
DEPTH OF WATER	1		
TIME OF OBSERV.			

HOLE NO. WG-106	DATE <u>1-18-62</u>	PAGE NO. 3 OF 4 PAGES
LOCATION Broadway No. of 3rd St.	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTES							
Depth Classification and Physical Characte								
	41.5 - 43.0 (ML) WC-106-11							
	III Disturbed							
	II Disturbed							
	I Disturbed							
	Same as above							
<u> </u>	<u>43.0 - 44.5 (ML) WC-106-12</u>							
	III (ML) Clayey silt,							
	brown, dense, micaceous							
	earthy odor, low plas-							
	ticity, damp							
	11 5 16 0 (37) 170 206 20							
	<u>144.5 = 46.0 (ML) WC=106-13</u>							
	TII (ML) Same as above							
	II (ML) Same as above							
	I (ML) Same as above							
	46.0 - 47.5 (ML) WC-106-14							
	III Same as above							
	II Same as above							
	I Same as above							
	47.5 - 49.0 (ML) WC-106-15							
	III (ML) Same as above							
	II (ML) Same as above							
	I (ML) Same as above							
	49.0 - 50.5 (ML) WC-106-16							
	III (ML) Same as above							
	II (ML) Same as above							
	I (ML) Same as above							
	50.5 - 54.0 (ML)							
	בור ט בב ב (אנד) אום בסל בם							
	5μ.0 - 55.5 (ML) WC-106-17 III (ML) Same as above							
	II (ML) Same as above I (ML) Same as above							
	T (FILL) Danie as above							

BORING NOTES									
Drilling Method Rotary Hole Size 5"									
Ang	Angle <u>Vertical</u> Bearing								
FROM TO INTERV. RECOV. REGOV. REMARKS									
Fish-tail									
43.0	44.5	1.5			Core				
.44.5	46.0	1.5			Core				
46.0	47.5	1.5			Core				
7،5ز.	<u>ц</u> 9.0	7.1			Core				
49.0	50.5	1.5			Core				
50.5	54.0	3.5			Fish-tail				
0 ، بارَ	55. 5	1,5			Core				
55.5	59.5	4.0			Fish-tail				
59.5	6 <u>1</u> .0	1.5			Core				

	С	ASI	NG	NOTES
FROM	TO	SIZE		REMARKS
0	21	5"		

	SAMPLING NOTES									
type sampler Split-tube size 2" wt. of hammer 140 lb drop 30"										
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6"	B L	OWS :	24"		
11	11.5	43.0	1,5			27	1.8			
12	43.0	44.5	1.5	18"		33	56			
13	44.5	46.0	1.5	18"		28	47			
14	46.0	47.5	1.5	18"		27	50			
15	47.5	49.0	1,5	18"		28	55			
16	49.0	50.5	1.5	18"		30	55			
17	54.0	55.5	1.5	18"		32	62			

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

COLLAR	ELEV INSPECT	OR R. Sco	tt							
	GEOLOGIC NOTES			30R I				S		
Depth	Classification and Physical Chara	Ho	illing le Siz	e5	lt .		··			
	55.5 - 58.0 (ML) Same as above	— An	gle_V	ertic	aT	_ Bed	ring	<u> </u>		_
	58.0 (ML) with little sand stringers	FROM	то	INTERV.	RECOV.	R E COV.		REMA	ARKS	
	58.0 - 59.5 (ML) Clayey silt, dense brown, micaceous),								
	59.5 - 61.0 (ML) WC-106-18 III (ML) Same as above II (ML) Same as above									
	T.D. 61.0									
	Note: No ground water encountered hole.									
				ASI	NG				······································	
		FROM	то	SIZE		R	EMAR	KS		•
			Si	AMP	LIN	G N	0 T	ES		
		TYPE SIZE.	SAMPLER	Spli	t-tub	0 10 lb	DR	op_3	Oit	
		SMPL NO.	FROM	то	INTERV.	RECOV.		BLC		24
		18	59.5	61.0	1.5	78 ¹¹		110	76	
		<u> </u>	1				ļ			
		-	1							
	 		 	-						
		4 1								

TIME OF OBSERV.

HOLE NO. WC-107	DATE	PAGE NO. 1 OF 3 PAGES
LOCATION Broadway & 2nd St.	JOB NO. 6148-5	_
COLLAR ELEV. 287. 24	INSPECTOR_R. Scott	

Depth Classification and Physical Character									
	· ·								
	Note: Hole had been drilled to 5.5 by								
	another rig.								
	5.5 - 18.0 Concrete								
-19-62-									
	18.0 - 18.5 Concrete								
	Too Solicios								
	18.5 - 20.0 (GC) Clay and fine gravel								
	mixture								
	20.0 - 21.5 (ML) WC-107-1								
	Clayey silt, dark brown,								
	dense, micaceous, damp, low								
	plasticity, earthy odor								
	III ML - Disturbed								
	II ML - Disturbed								
	I ML - Disturbed								
	21.5 - 26.0 (ML) Same as above								
	26.0 - 27.5 (ML) WC-107-2								
	III Same as above								
	II Same as above								
	I Same as above								
	00 0 0 0 0 0 0								
	27.5 - 29.0 (ML) WC-107-3								
	III Same as above								
	II Same as above								
	I Same as above								
	20.0 - 20 E (ML) 107 307 }.								
	29.0 - 30.5 (ML) WC-107-4								
	III Same as above II Same as above								
	I Same as above								
	1 Danie as above								
	30.5 - 32.0 (ML) WC-107-5								
	III Same as above								
	II Same as above								
	I Same as above								

	В	ORI	NG	NO	ΓΕЅ						
Hole	Hole Size 5" to 21.5"; 4" hole Angle Vertical Bearing										
AngleBearing											
FROM	TO	INTERV.	REGOV.	R E COV.	REMARKS						
5.5	18.0	12.5			Tri-cone						
18.0	20.0	2.0			Tri-cone						
20.0	21.5	1.5			Core						
21.5	26.0	4.5			Fish-tail						
26، 0	41.0	15,0			Core						

	CASING NOTES						
FROM	TO	SIZE	REMARKS				
0	2 8	5"					

SAMPLING NOTES										
type sampler Split tube size 2" wt. of hammer 1/10 1b drop 30"										
FROM	т0	INTERV.	REGOV.	6"			24"			
20، 0	21.5	1,5	18"		23	11/1				
			18"		28	53				
27.5	29.0	1,5	18"		28	55				
29.0	30.5	1.5	18"		24	48				
30.5	32.0	1.5	18"		25	47				
	PLER_21 wt FROM 20.0 26.0 27.5 29.0	MPLER Spli 211 WT OF HAMI FROM TO 20, 0 21, 5 26, 0 27, 5 27, 5 29, 0 29, 0 30, 5	MPLER Split = tub 2 ¹¹ wt. of hammer 1/2 FROM TO INTERV. 20. 0 21. 5 1. 5 26. 0 27. 5 1. 5 27. 5 29. 0 1. 5	MPLER Split - tube 2" wt. of HAMMER 1/10 1b FROM TO INTERV. REGOV. 20.0 21.5 1.5 18" 26.0 27.5 1.5 18" 27.5 29.0 1.5 18" 29.0 30.5 1.5 18"	MPLER Split—tube 2" WT. OF HAMMER 1/10 1b DRC FROM TO INTERV. RECOV. 6" 20.0 21.5 1.5 18" 26.0 27.5 1.5 18" 27.5 29.0 1.5 18" 29.0 30.5 1.5 18"	MPLER Split—tube 2" WT. OF HAMMER 11:0 1b DROP DROP FROM TO INTERV. REGOV. 6" 12" 20. 0 21. 5 1.5 18" 23 26. 0 27. 5 1. 5 18" 28 27. 5 29. 0 1. 5 18" 28 29. 0 30. 5 1. 5 18" 21	MPLER Split-tube 2" wt. of HAMMER 110 1b DROP 30" FROM TO INTERV. RECOV. 6" 12" 18" 20.0 21.5 1.5 18" 23 14 26.0 27.5 1.5 18" 28 53 27.5 29.0 1.5 18" 28 55 29.0 30.5 1.5 18" 21 148			

GROUND WA	TER	OBSER	VATION	S
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO. WC-107 LOCATION Broadway & 2nd St.

DATE 1-19-62 PAGE NO. 2 OF 3 PAGES

JOB NO. 6148-5

COLLAR ELEV. 287. 24 INSPECTOR R. Scott

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	32.0 - 33.5 (ML) WC-107-6
	III Same as above
	II Same as above
	I Same as above
	33.5 - 35.0 (ML) WC-107~7
	III (ML) Clayey silt,
	brown, dense, micaceous
	earthy odor, low
	plasticity
	35.0 - 37.5 (ML) WC-107-8
	III (ML) Same as above
	II (ML) Same as above
	I (ML) Same as above
	37.5 - 39.0 (ML) WC-107-9
	III (ML) Same as above
	II (ML) Same as above
	I (ML) Same as above
	39.0 - 40.5 (ML) WC-107-10
	III (ML) Same as above
	II (ML) Same as above
	I (ML) Same as above
	40.5 - 45.0 (ML) Clayey silt, brown,
	dense
	15 0 16 5 (M) 10 305 33
	45.0 - 46.5 (ML) WC=107-11
	III Same as above
	II Same as above
	I Same as above
	46.5 - 50.0 (ML) Same as above
	50.0 - 51.5 (ML) WC-107-12
	III (ML) Same as above
	II (ML) Same as above
	I (ML) Same as above

	В	ORI	NG	NO.	BORING NOTES								
Dri	lling	Meth	o d	Rota	CV								
Hol	e Siz	e <u>l</u> ı	H										
Angle <u>Vertical</u> Bearing													
FROM TO INTERV. RECOV. REMARKS													
33.5	40.5	7.0			Core								
40.5	45.0	4.5			Fish-tail								
<u>15.0</u>	46.5	1.5			Core								
46.5	50,0	3.5			Fish-tail								
50.0	51.5	1.5			Core								

	С	ASI	NG NOTES
FROM	10	SIZE	REMARKS
0	21	5"	

	SAMPLING NOTES									
	TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 16 DROP 30!!									
SMPL. NO.	SMPL. FROM TO INTÉRY RECOV. 8" 12" 18" 24									
6	32.0	33.5	1.5	18"		25	48			
7	33.5	35.0	1.5	18"		27	53			
8	35.0	37.5	1.5	18"		28	54			
9	37.5	39.0	1.5	18"		34	72			
10	39.0	40.5	1.5	18"		32	61			
11	45.0	46.5	1.5	18"		38	73			
12	50.0	51.5	1.5	18"		36	73			

GROUND W	/ATER	OBSERVATION	S
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE N	O. WC-107	DATE1	-19-62	<u> </u>		PAGE	E NO.	<u>3</u> 0)F_	<u>3</u> [PA(GES
LOCATIO	N Broadway & 2nd St.	JOB NO6	148-5		·							
COLLAR	ELEV	INSPECTO	R_R.	Scot	ct	<u>.</u>						
	GEOLOGIC NOT	E S			E	ORI	NG	NO.	TE:	<u>S</u>		
Depth	th Classification and Physical Character				r Drilling Method Rotary Hole Size 4"							
	T.D. 51.5	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ang	le	ertic	al	_ Bea	ring			
	Note: No ground water e	ncountered.		FROM	то	INTERV.	REGOV.	% RECOV.		REMA	RKS	
				33.5	40.5	7.0			Co	re		
				40.5	45.0	4.5			Fi	sh-t	ail	
				45.0					Co	re		
			B	46.5			ł		Fi	sh-t	<u>ail</u>	<u> </u>
				<u>50, 0</u>	<u>51.5</u>	1,5		ļ	Co	re		
												<u> </u>
						! 						
								<u> </u>	L			
<u> </u>					С	ASI	NG	NOT	E:	S		
				FROM	TO	SIZE		R	EMARK	(S		
				0	21	5"		,, <u>,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, </u>				
				r				<u> </u>	A =	<u> </u>		
				1	MPLER_			G N				
				SIZE	FROM	OF HAMI		RECOV.	_ DRO	BLOV		
				NO.			THIERV.	NEOUV.	6"	12"	18"	24"
						-						
										\vdash		
												<u>.</u>
												
 	<u> </u>			GRC	UND	WA	TER	OBS	ER	<u>VAT</u>	101	<u> </u>

DEPTH OF WATER

LOCATIO	OWC108	-5		PAG	ENO.	. <u>+</u> ()F _	<u>- </u>	РА	ĢΕ
	GEOLOGIC NOTES	7		BORI	NG	ΝO	ΤE	S		
Depth	Classification and Physical Character	BORING NOTES Drilling Method Rotary Hole Size 5"								
	0.0 - 1.5 Concrete				al					_
	At 0.3 Reinforcing steel rod in concrete	FROM	то	INTERV.	REGOV.	% REGOV.		REM	ARKS	
			4.0	4.0			4-7	<u>'/8"</u>	Tri	
	0.0 - 4.0 Concrete			ļ	<u></u>	 	ļ		cor	ıe_
	Note: Moved to hole WC-106									
	This hole moved 6.0' west and drilled at that location. See log for Hole									
	WC-108-A.									
			C	ASI	NG	NO.	ΤE	S		
		FROM	TO	SIZE		R	EMAR	KS		
]			<u> </u>					
		TYPE S	AMPLER_	Spl:	LIN it-tu mer_l	be	T	ES		
		SMPL.	FROM	TO	1	RECOV.	OR	BLC	ows .	24
]	ļ				-	-	<u> </u>	
<u> </u>		$\dashv \vdash \vdash$	 					-		
		_								
 -		┦┖	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>
					TER	OBS	ER	VA ⁻	<u> </u>	NS
			OF HOL							
		- Jerin	V WAI	• R	 					

HOLE NO. WC-108	DATE <u>1-18-62</u>	PAGE NO. 2 OF 5 PAGES
LOCATION First St. & Broadway	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR <u>Nercessian</u>	 ;

	GEOLOGIC NOTES					
pth	Classification and Physical Character					
	0.0 - 4.0 Concrete asphalt					
	5.7 Concrete					
	5.7 - 10.0 Concrete rubble					
	10.0 - 11.7 (ML) WC-108-1					
	Clayey fine, sandy silt, brown, micaceous					
	III Disturbed					
	II Disturbed I. Disturbed					
	lli.0 Increase in clay					
	11.5 - 15.0					
	15.0 - 16.5 (SM) WC-108-2 Silty sand - silty					
	tan III (SM)					
	II (SM)					
	I (SM)					
	16.5 - 18.0					
·	18.0 - 19.0 (ML) & (GC) WC-108-3 Very micaceous, sandy clay					
	clayey gravel, clayey siit					
	III (ML) II (GC)					
	I (GC)					
	19.0 - 20.0					

BORING NOTES Drilling Method Rotary Hole Size 5"								
Angle_VerticalBearing								
FROM	DM TO INTERV. REGOV. REMARKS							
0.0	1.0				Fish-tail			
1.0	12.0			l	Auger			
								
			<u> </u>		4			
			-					

	C	ASI	NG	NOTES				
FROM	TO	SIZE	REMARKS					

type sampler <u>Split-tube</u> bize <u>211</u> wt. of hammer <u>UiD lib</u> drop <u>3011</u>									
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"		18"	24"	
1	10.0	11.5	1.5			11	20		
2		16.5	1.5			44	78		
3	18.0	19.0	1.0			101	2 5		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-108	DATE 1-18-62	PAGE NO. 3 OF 5 PAGES
LOCATION First St. & Broadway	JOB NO. 6148-5	·
COLLAR ELEV.	INSPECTOR Nercessian	

,	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	20.0 - 21.0 (GC) (ML) WC-108-1						
	Pebbly, gravelly,						
	sandy silt, becoming more						
	damp						
	III (NF)						
	II (GC)						
	I (GC)						
	Tip: (one) 2" granite						
	pebble (gravel)						
	21.0 - 22.0						
	22.0 - 23.5 (GC) WC-108-5						
	Pebbly gravelly and						
	sandy silt						
	III (NF) Piece of 2"						
	decomposed granite						
	pebble						
	II GC						
	I GC						
	Tip: Becoming more wet						
	115. Decoming more wer						
	23.5 - 24.5						
	24.5 - 26.0 (ML & SM) WC-108-6						
	Clayey silt, some sand,						
	micaceous, dark brown, low						
	plasticity						
	III Disturbed						
	II Disturbed						
	I Disturbed						
	24.5 - 27.0						
	27.0 - 28.5 (ML) WC-108-7						
	Clayey silt, some sand,						
	micaceous, damp, dark brown						
	III (ML)						
	II (ML)						
	I (ML)						

	BORING NOTES								
Drilling Method Rotary Hole Size 5" Angle Vertical Bearing									
FROM	%								
0.0	1.0				Fishtail				
1.0	42.0				Auger				
			-						

	C	ASII	N G	NOTES	
FROM	TO	SIZE		REMARKS	
			-		

			LIN		0 T	ES		
TYPE SA	MPLER_	Spl: r.of hami	Lt-tul MER_1	oe 10 1 b	_ DRO)P	30"	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L C	WS	24"
4	20.0	21.0	1.0		47	121		
5	22.0	23.5	1.5		27	40	48	
6	24.5	26.0	1.5		12	31	69	
7	27.0	28.5	1.5		10	30	68	

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-108	DATE 1-18 & 19-62	PAGE NO. 4 OF 5 PAGES
LOCATION First St. & Broadway	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_Nercessian	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	27.0 - 29.5
· .	
	29.5 - 31.0 (ML) WC-108-8
	Clayey silt, some fine sand,
	brown, damp, low plasticity
<u> </u>	III (ML)
	II (ML)
	I (ML)
	29.5 - 32.0
	32.0 - 33.0 (ML) WC-108-9
	Clayey silt, some sand,
	same as before
	III (ML)
<u> </u>	II (ML)
	I (3/4" of pebbles in ML) Tip: 3 - 4 pebbles with clay
	32.0 - 34.0
	34.0 - 35.5 (ML) WC-108-10
	Clayey silt, some sand,
	not as damp as before
	III 3/4" pebble in MT.
	II OK
	I OK
	Large gravel particles in tip
	34°0 - 38°0
	39.0 - 40.5 (ML) WC-108-11
	Clayey silt, some sand,
	becoming damp again III (ML)
	II (ML)
	I (ML)
	39.0 - 42.0

	E	ORI	NG	NO.	TES
Hole	e Siz	e			ry ring
FROM	то		REGOV.	%	

	С	ASI	NĢ	NOTES	
FROM	TO	SIZE		REMARKS	

TYPE S	AMPLER_	Spl:	LIN Lt-tu MER_1	oe			OH	
SMPL.	FROM	то	INTERV.	RECOV.		BLC	ws `	
_				REGOV.	6"	12"	18"	24"
_8	<u> 29.5</u>	31.0	1.5		8	39	77	!
9	32.0	33.0	1.0		24	103	(Gr	vel
10	34.0	35.5	1.5		20	45	80	
11	39.0	40.5	1.5		12	33	75	
	†		,	<u></u>				

GROUND WA	TER	OBSERVATION	S
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE N	O. <u>WC-108</u>	DATE 1-18 & 1	9=62		PAGI	E NO.	<u>5</u> ()F_	5	РΑ	GE
LOCATIO	ON First St. & Broadway	JOB NO. 6148-5									
COLLAR	R ELEV	INSPECTOR_Ne	rcess	ian		_					
*	GEOLOGIC NOTE:	S		E	BORI	NG	NO.	TE	S	•	
Depth	Classification and Physi	ical Character		-		o d	Rotar	У			
	47.0 - 43.5 (ML) WC-108-1:	2	1				_ Bea	ring			
	Clayey silt, a III (ML) II (ML) I (ML) Tip: (ML) dam	some sand, damp	FROM	то	T		% R E GOV.			ARKS	
<u> </u>				С	ASI	NG	NOT	E	S		
			FROM	то	SIZE		R1	EMAR	<u> </u>		
				S A	MP	LINO	G N	— О Т	E S		
			TYPE S	AMPLER_	Spl:	t-tul	be 40 lb	DRI	OP 3	011	
			SMPL. NO.				REGOV.		BLC	OWS	24
			12	₄ 2.0	43.5	1.5			1,1,		
				UND OF HOLI		TER	OBS	ER	VAT	ΠΟΙ	VS
		· · · · · · · · · · · · · · · · · · ·		OF WATE		······································					

HOLE NO	WC-109	DATE <u>1-15-196?</u>	PAGE NO.1	_OF <u> </u>
LOCATION_	Broadway & Court S	Street JOB NO. 6148-5		
COLLAR EL	EV. 319.6	INSPECTOR R. J. See	ott	

	GEOLOGIC NOTES	_
Depth	Classification and Physical Character	
	0.0 - 0.3 Concrete	
	0.3 - 1.0 Sub-grade and gravel	
	1.0 - 5.0 (CH) Clay, high plasticit	у
	5.0 - 6.0 (CL) WC-109-1 III Discarded	
	II (CL) Inorganic clay, little sand, yellow brown	i _s
	medium-high plasticity, sample disturbed, slight	
	moisture I Discarded	_
	6.0 - 10.0 (CL)	
	10.0 - 11.0 (CL) WC-109-2	
	III Empty II Discarded	
	I (CL) Sandy clay, yell brown, medium plasticity,	
	slight moisture, sample disturbed	
	11.0 - 15.0 (CL)	_
	15.0 - 16.0 (CL) WC-109-3	
	III Discarded II Discarded	_
	I (CL) Brown sandy clay as above	
	16.0 - 20.0 (CL)	
		_
		_

	В	ORI	NĠ	NO	ΓES		
Hole	e Siz	e5	11	otary			
Ang	E	tical Bearing					
FROM	то	INTERV.	REGOV.	% R E COV.	REMARKS		
0	0.3				Tri-cone		
0.3					Fish-tail		
					!		
<u> </u>		ļ					

	C	ASI	NG NOTES
FROM	то	SIZE	REMARKS
- 0	2.7	511	Drove from 1" to 2.7°

TYPE S	MPLER_WI	Sp. OF HAM	LIN(lit t mer_ ¹⁴	ube 0 1.b	_ DR	0P_ <u>3</u> () "1	
SMPL. NO.	FROM	то		REGOV.	6"	B L C	18"	24"
7.	5.0	6.0	1.0			9		
2	10.0	11.0	1.0			9		
3	15.0	16.0	1.0		5	11		
						†		
	-					 		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	WC→109	DATE _	1-15-19	<u>62</u>	PAGE NO. 2	OF_5 PAGES
LOCATION_	Broadway &	Court StreetJOB NO.	6148-5			
COLLAR EL	EV	INSPEC	TORR	. J. Scot	t	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	20.0 - 21.0 WC-109-4
	III Discarded
	II Clay, dark brown, very
	clayey, micaceous, damp,
	dense, medium consistency,
	hard
	I Clay, dark brown, very
	clayey, micaceous, damp,
	dense, medium consistency,
	hard
··	27 0 25 0 (GI)
	21.0 - 25.0 (CL)
	25.0 - 26.0 (CL) WC-109-5
	III Discarded
·····	TI (CL) Same as above sample
····	I (CL) Same as above
	sample. Dense, dark brown
	micaceous clay
	miled cooks of all
	26.0 - 30.0 (CL) and (ML)
	30.0 - 31.0 (ML) WC-109-6
	III Discarded
	II (ML Clayey silt, brown
	micaceous, slight plastict
	31.0 - 35.0 (ML)
	35.0 - 36.0 (ML) WC-109-7
	III (ML)
	II (ML)
	I (ML) Clayey silt, brow
	hard, micaceous, slightly
	disturbed, damp
	36.0 - 40.0 (ML)

	Ē	ORI	NĠ	NO.	ΓES
Hole	e Siz	Meth e _{Verti}	5"	<u></u>	ring
FROM	то	1	г	% RECOV.	
31.0					Fish-tail
		-	<u> </u>		

	C	ASII	NG NOTES
FROM	то	SIZE	REMARKS
0	2.7	5 ^{tt}	
	<u> </u>		

TYPE S	S A AMPLER_ 20 w1	Sp	LIN(lit t mer_l	ube			30 ⁸⁹	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L C	18"	24"
lı.	20.0	21.0	1.0		7	23		
5	25.0	26.0	1.0		14	145		
6	30.0	31.0	1.0		11	37		
7	35.0	36.0	1.0		13	35		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	MC-109	DATE _	1-15-1962	. PAGE	NO. $\frac{3}{2}$ OF	F_5_PAGES
LOCATION_	Broadway & Court Stree	tJOB NO.	6148-5			
COLLAR EL	EV	INSPEC	TOR_R.J.	Scott		

LJ	GEOLOG	
hysical Character	Classification	Depth
L09-8	40.0 - 41.0	
arded		
Clayey silt with		
ite patches in it,	· · · · · · · · · · · · · · · · · · ·	
icaceous, damp		
Clayey silt with		
ite patches in it,	· · · · · · · · · · · · · · · · · · ·	
icaceous, damp		
L09-9	41.0 - 42.0	
arded, short of		
arded, short of		
Same as above		
L09-10	42.0 - 43.0	
arded, short of		
arded, short of		
Same as above		
LÓ9-11	43.0 - 44.0	
arded		
Little more moist		
ve and a little		
Little more moist		
ve and a little		
L09-12	44.0 - 45.0	
arded	15-	
Same as above		
Same as above		

	BORING NOTES											
Hole	Drilling Method Rotary Hole Size 5" Angle Vertical Bearing											
FROM TO INTERV. REGOV. REGOV. REMARKS												
31.0					Fish-tail							

	C	ASI	NG NOTES
FROM	то	SIZE	REMARKS
. 0	2.7	5"	

TYPE SAMPLER WT. OF HAMMER DROP									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC	WS	24"	
8	40.0	41.0	1.0		18	41			
9	11.0	42.0	1.0		41				
10	42.0	43.0	1.0		16	1.1			
11	113.0	44.0	1.0			37		<u> </u>	
12	44.0	45.0	1.0		17	42			
		· · · · · ·							

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

COLLAR		INSPECTOR_							
	GEOLOG	SIC NOTES	- I				NO.		
Depth Classification and Physical Character							Rota		
	45.0 - 46.0	(ML) WC-109-13] An	gle	Verti	cal	_ Bea	ring_	
		III Discarded]	` -	T	T	T	ГŤ	
		II (ML) Clayey silt, dens	FROM	то	INTERV.	REGOV.	R E COV.	R	EMARKS
		dark brown, micaceous,]			 	 	777	
		damp, slight plasticity	⅃ ├──	ļ	ļ	<u> </u>	ļ	Fis	h-tai
		I (ML) Clayey silt, den	ie		<u> </u>	<u> </u>	ļ	L	···
		dark brown, micaceous,	41						
		damp, slight plasticity	-						
	46.0 - 47.0	(ML) WC-109-14		_	-	<u> </u>			
		III Discarded]	ļ	ļ	ļ	<u> </u>	ļ	
		II (ML) Same as above]	<u> </u>	ļ	<u> </u>	<u> </u>	ļ	
		I (ML) Same as above				<u></u>		ļ	
	47.0 - 48.0	(ML) WC-109-15	<u> </u>	<u> </u>					
		III Discarded]		1	<u></u>	l	Ĺ	,
		II (ML) Same as above			ACI	NG	N O 1	C	<u></u>
		I (ML) Same as above	FROM	T 70	SIZE	NG		EMARKS	
			10	2.7		 			
1-16 -6 2-		. CH 04 W W W W W W W W W W W W W W W W W W	╣┈		J	 			
	48.0 - 49.5	(ML) WC-109-16							
		III (ML) Clayey silt, dar]		AMP			<u> </u>	<u>s</u>
		gray brown, micaceous,	TYPE S	AMPLER.	Spli t. of ham	t tul	oe 140 11	DROP	3(
		dense, damp			T			2 DROP	BLOWS
		II (ML) Clayey silt, dar		_	то	├	REGOV.		12" 18"
		gray brown, micaceous,] 13		46.C	T			38
		dense, damp] 14		47.0				45
	<u> </u>	T (MI) Clarror silt dam	1 15	11.7 0	48.c	110	1	16	μ2

gray brown, micaceous,

dense, damp

III Same as above
II Same as above
I Same as above

49.5 - 51.0 (ML) WC-109-17

GROUND WA	TER	OBSERVA	TIONS
DEPTH OF HOLE			
DEPTH OF WATER	Ī		
TIME OF OBSERV.			

43 80

16 48.0 49.5 1.5

17 49.5 51.0 1.5

OLLAR		INSI	PECTOR								
	GEOLOG	IC NOTES		BORING NOTES							
30-4b	Classificati	an and Dhuaiani	Character	Drilling Method Rotary							
Depth	Classificati	on and Physical	Character	Hole Size 5"							
	51.0 - 52.5	(ML) WC-109-18		Angle Vertical Bearing Bearing							
		III Same as abor	ve		_	1	1	1			
		II Same as abov	76	FROM	то	INTERV.	REGOV.	RECOV.	REM.	ARKS	
		I Same as abov	ve	<u></u>		 					
						ļ			Fish	-tai	
	52.5 - 54.0	(ML) WC-109-19				ļ					
		III Same as abov									
	ļ	II Dense and ha	ard								
	<u> </u>	I									
		(MT) NC 700 20									
	54.0 - 55.5	(ML) WC-109-20 III (ML) Disturb									
		II (ML) Distur									
		I Discarded	teu -						 		
	<u> </u>	1 DISCALCEC		ļ						•	
	55.0 - 60.0	(ML)		L		<u> </u>			<u> </u>		
						A C I	AL Ø	N 0 7			
	60.0 - 61.5	(ML) WC-109-21				SIZE			TES		
		III (ML) Same, o	disturbed	FROM	то	<u> </u>		R	EMARKS		
		II (ML) Same, (OK .			5늴					
		I (ML) Same, (OK	L		<u> </u>	L				
	(3 5 (5 2	(DAT)			\$ /	M P	LNO	3 N	OTES		
	61.5 - 65.0	(ML)		TYPE SA	MPLER_	Spli r. of hami	t tu	oe .			
	65.0 - 66.5	(ML) WC-109-22			511 M.	T. OF HAMI	MER	10 lb			
	0,0 - 00,7	III (ML) Clayey	silt.	SMPL. NO.	FROM	то	INTERV.	REGOV.	6" 12"	18"	
		dark brown, den		18	51.0	52.5	1.5		36	75	
		same as above,				54.0	1.5		35	64	
		II (ML) Clayey				55.5	1.5		30	55	
		dark brown, den		ļ		61.5			34	67	
		same as above,	· .	22	65.0	66.5	1.5		44	106	
		I (ML) Clayey									
	ļ	dark brown, den									
		same as above,	damp								

DEPTH OF HOLE

DEPTH OF WATER

Note: No water encountered during

drilling of hole.

HOLE NO. WC-110	DATE Jan. 12, 1962 PAGE NO. 1 OF 7 PAGES
LOCATION Broadway and Temple	JOB NO. 6118-5
COLLAR ELEV. 336.6	INSPECTOR R. Singh

	GEOLOGIC NOTES									
Depth	Classificati	on and Physical Character								
	0.0 - 0.3	Concrete								
	0.2 1.5	Cub made and soud								
	0.3 = 1.5	Subgrade and sand								
	1.5 - 5.0	(CL) Clay with pebbles,								
		inorganic, high plasticity								
	5.0 - 5.0	(SC) WC-110-1								
		Clayey sand, medium to low								
		plasticity								
		III Empty								
		II NF Discarded								
		I Disturbed								
	·	<u>Tip</u>								
	6.0 - 10.0	(CL) Starts sand and gravel								
		turns into clay at 6.5' be-								
-	71	comming more clay								
	10.0 - 11.5	(CL) WC-110-2								
		Silty clay medium plas-								
		ticity								
		III Discarded								
		II								
	<u> </u>	I								
		Tip								
	11.5 - 15.0	(CL) Silty clay becoming								
		hard at 13.0°. From 13.0°								
		to 15.0' sandy clay with								
		gravel, anguiar								
	15.0 - 16.5	(CL) WC-110-3								
		Hard clay, dry								
		III Discarded								
		II								
		I (CL)								
		Tip								
	 									
<u> </u>	<u> </u>									

	BORING NOTES											
ļ				NU	I E S							
Dri	lling	Meth	o d	Rot	ary							
Hole Size												
Angle_Vertical Bearing												
FROM	то	INTERV. RECOV. REMARKS										
0.0	0.4				Tricone							
0.4					Auger							
ļ												
<u> </u>												

CASING				NOTES	
FROM	то	SIZE		REMARKS	
0.0	2.5	5"			

	SAMPLING NOTES											
TYPE SA	type sampler Split tube size 2" wt. of hammer 140 lb drop 30"											
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	BL()WS	24"				
1	5.0	6.0	1.0		6	14						
2	10.0		1.0		4	9						
3	15.0	16.5	1.5			22	41					

GROUND W	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATE	PAGE NO. 2 OF 7 PAGES
LOCATION Broadway and Temple	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Singh	

GEOLOGIC NOTES							
Depth	Classification and Physical Character						
	16.5 - 20.0 (ML WC-110-4						
	Hard						
	III Discarded						
	II (ML)						
	I						
	Tip						
	21.5 - 25.0 (SC) Sandy-clay, low plas-						
	ticity, dry						
	25.0 - 26.5 (SC) WC-110-5						
	Dense, sandy clay						
	III Discarded						
	II						
	I						
	Tip						
	26.5 - 30.0 (SC) Same as above						
	30.0 - 31.5 (CL) WC-110-6						
	Clay with irregular silt						
	seam						
	III Discarded						
	II						
	I						
	Tip - fine silt						
	31.5 - 35.0 (CL) Silty clay becoming						
	hard						
	35.0 - 36.0 (CL) WC-110-7						
	Silty clay, dry						
	III Discarded						
	II Clay with vertical sil						
	stringer						
	I Clay with vertical silt						
	stringer						
	Tip-silty clay						

	P	ORI	NG	NO.	TFS					
ŀ	lling	Meth	od	Rota						
Hole SizeBearing										
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS					
	W. 10.00									
				,						
e ^r										

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	

SAMPLING NOTES								
type sampler Split tube size 2" wt. of hammer 140 lb drop 30"								
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BL0	0WS	24"
<u>1</u>	20.0	21.5	1.5			24	148	
5	25.0		. 1.1			55	115/ /48	
6	30.0	31.0	1.0			44		
7	35.C	36.0	1.0			57		
					-			

GROUND WA	TER	OBSER	VATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-110	DATE	PAGE NO. 3 OF 7 PAGES
LOCATION Broadway and Temple	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR_R. Singh	

GEOLOGIC NOTES								
Depth	Classification and Physical Character							
	36.0 - 40.0 (ML) Wet							
	40.0 - 41.0 WC-110-8							
	III Empty							
	II ML (fine micaceous`							
	I ML Silt							
	41.0 - 42.0 WC-110-9							
	LiI Discarded							
	II II							
	I ML (Micaceous)							
	42.0 - 43.0 (ML)							
	42.0 - 45.0 (111)							
	43.0 - 44.0 (ML) WC-110-10							
	Same as above							
	III Discarded							
	II							
	I							
	44.0 - 50.0 (ML) Micaceous							
	50.0 - 51.0 (ML) WC-110-11							
	Dry, vertical lamination							
	III Discarded							
	lI Discarded							
	I Disturbed							
	Tip							
<u> </u>	#2 tube - hard pebble found							
	51.0 - 55.0 (ML)							
	2.60 2260 (1.604)							
	55.0 - 56.0 WC-110-12							
	1 Tube I only							
	۲٬ ۰ ۲٬ ۰ ۲٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬ ۳٬							
	56.0 - 60.0 (ML) Becoming hard at 56.5							

	<u>_</u>				<u> </u>						
<u> </u>		ORI	NG	NO.	TES						
Dri	lling	Meth	o d	Rota	ary						
	Hole Size										
1	T7 3 6 7										
Ang	1e			- Dea	ring						
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS						

	NOTES	ASING	C	
1	REMARKS	SIZE	TO	FROM
_				

SAMPLING NOTES TYPE SAMPLER Split tube SIZE 211 WT.OF HAMMER 140 lb DROP 3011									
SIZE_	T	1		40 lb	_ DR		OWS		
NO.	FROM	TO	INTÉRV.	RECOV.	6"	12"	18"	24"	
8_	36.0	37.0	1.0			65			
9	41.0	42.0	1.0			56			
10	₄ 3.0	44.0	1.0			58			
11	50.0	51.0	1.0			55			
12		56.0	1.0			53			

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-110	DATE	PAGE NO. 4 OF 7 PAGES
LOCATION Broadway and Temple	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Singh and	Nielson

COLLAR	ELEV	INSPECTOR_	S	ingh	and 1	iels	on			
	GEOLO	SIC NOTES				30RI	NG	NO	TE	S
Depth	Classificat	ion and Physical Character			-	Meth		Rota	ry	
	60.0 - 61.0	WC-110-13						_ Bea	ring	_
		III Discarded II	\dashv	FROM	то	INTERV.	REGOV.	% REGOV.		R
		I Fat, clayey, disturbed	d							
	61.0 - 65.0	Fine to medium layer of								
		sand mixed with clay at		L						
		62.0 becoming harder at	_							
		65.0	4							
	65.0 - 66.0	(ML) WC-110-14								
		Streak of gray, hard	\neg	L						
		III Discarded		1			,			
		II Discarded								
		I CL-CH								
			4	<u> </u>	ł	1	L	<u> </u>	1	
<u> </u>	66.0 - 70.0	(ML-OH) WC-110-15	_		C	ASI	NG	NO T	Γ F !	\overline{s}
	 	Dark gray, dark brown, org	5-	FROM	то	SIZE	T		EMARK	
		anic clay, very soft,	\dashv							
-		sticky, light gray, friable very fine sand, appears to	r							
		have near vertical bedding			•	•	!			
<u> </u>		III Disturbed	4	Γ	S	AMP	LIN	G N	O T	E
<u> </u>		II Disturbed	\exists	TYPE S	AMPLER_	Sp1:	it tu	be () lb.		_
		I Disturbed	7							
		Tip	7	SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	12
				ľ	1	61.0	ł	ļ	40	
	70.9 - 75.0	(ML-OH) Same as above				66.0			36 130 10	1
					70.0	70.9	0.9	ļ	10	ļ
	75.0 - 76.0	(ML-OL) WC-110-16		16	75.0	76.0	1.0			1.
		Same as above, more CL, le	ess	<u> </u>		ļ		<u> </u>		ļ
		soft and less sticky	_					<u></u>		<u> </u>
		III Discarded	_							ļ
		II OK	_							<u> </u>
		I Discarded	\dashv	L		<u> </u>	·			
	76.0 - 80.0	(ML-OL) Same as above	\dashv	GRO) N D	WΔ	TFR	OBS	FR	V
	10.0 - 00.0	1111 011/ Omite do 00000			OF HOL		· <u>- '\</u>	000		
	,		_							_

Hol	e Siz	е						
Ang	jle <u> </u>	/erti	cal	_ Bea	ring			_
FROM	то	INTERV.	REGOV.	% R E COV.		REM	ARKS	
					ļ			
							<u></u>	
;			7					
	С	ASI	NG	NO T	T F S	<u> </u>		
FROM	то	SIZE			EMARI		· · · · · · · · · · · · · · · · · · ·	
	S A	MP	LING	3 N	0 T	ES		
TYPE SI	MPLER_	Sp.1.	LIN Lt tu MER_14	be Olb.	_ DR(ор <u>3</u>	011	
SMPL.		то		REGOV.			ws .	24"
13	60.0	61.0	1.0		40			
		66.0			36			

SAMPLING NUIES								
SIZE 2" WT. OF HAMMER 140 1b. DROP 30"								
FROM	то	INTÉRV.	REGOV.	6"	B L C	18"	24"	
60.0	61.0	1.0		40	86			
65.0	66.0	1.0		36	126			
70.0	70.9	0.9		130				
75.0	76.0	1.0			111			
		c						
	FROM 60.0 65.0 70.0	MPLER Sp.I. WT. OF HAM FROM TO 60.0 61.0 65.0 66.0 70.0 70.9	MAPLER SPLIT tu WT. OF HAMMER 14 FROM TO INTERV. 60.0 61.0 1.0 65.0 66.0 1.0 70.0 70.9 0.9	MAPLER Split tube WT. OF HAMMER 1.40 lb. FROM TO INTERV. REGOV. 60.0 61.0 l.0 65.0 66.0 l.0 70.0 70.9 0.9	WT. OF HAMMER 140 1b. DRG FROM TO INTERV. RECOV. 6" 60.0 61.0 1.0 40 65.0 66.0 1.0 36 70.0 70.9 0.9 130	WT. OF HAMMER 140 1b. DROP 3	MT. OF HAMMER 140 1b. DROP 30"	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-110	DATE	PAGE NO. 5 OF 7 PAGES
LOCATION Broadway and Temple	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nielson	

GEOLOGIC NOTES						
Depth	Classificati	on and Physical Character				
	80.0 - 81.0	(ML & CL) WC-110-17				
		Same as above, OL dark gray				
		III Discarded				
		II OK				
	_	I Discarded				
	0					
	81.0 - 82.0	CL - ML				
	110 0 110 0	(MI + OT) IIG 770 78				
	82.0 - 82.9	(ML +CL) WC-110-18				
		Light gray, very fine sand,				
		silty, friable, dark gray,				
	<u> </u>	slightly organic, silty clay, friable, steep dip				
		III NF, Discarded				
		II Discarded				
	84.0 - 85.0	(OL + SM) WC-110-19				
		ML (25%) slightly damp.				
		seems very dense, low plas-				
		ticity, steep dip				
		III Discarded				
		II Discarded				
		1				
	85.0 - 86.0	Same as above				
	86.0 - 87.0	(OL) WC-110-20, some ML,				
		increase				
		III Discarded				
		TI				
		I Discarded				
	87.0 - 88.0	(OL + ML)				

	BORING NOTES									
Dri	Drilling Method Rotary									
	Hole Size									
Ang	le_Ve	rtica	a L	_ Bea	ring					
FROM	FROM TO INTERV. REGOV. REGOV. REMARKS									
		ļ								
		ļ								

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
ļ			ļ	•	

SIZE 217 WT. OF HAMMER 140 16 DROP 3011								
SMPL. NO.	FROM	TO	INTÉRV.	REGOV.	6"	12"	18"	24
17	80.0	81.0	1.0			104		
18	82.0	82.9	0.9			1129		
19	84.0	85.0	1.0			82		
20	86.0	87.0	1.0			46		
			· · · · · · · · · · · · · · · · · · ·					
						i		

GROUND WA	ATER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-110	DATEJan. 13, 1962	PAGE NO. 6 OF 7 PAGES
LOCATION Broadway and Temple	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTORNielson	

GEOLOGIC NOTES									
Depth	Classification and Physical Character								
	88.0 - 89.0 (CL) WC-110-21								
;	Slight organic, sandy,								
	silty clay, dark gray,								
	brown, dense, low plasti-								
	city								
	III Discarded								
	II.								
-	I Discarded								
	89.0 - 90.0 Same as above								
	90.0 - 91.0 (OL) WC-110-22								
·	Silty clay, dark gray								
	III Discarded								
	II Discarded								
	I								
	91.0 - 95.0 (OL + ML) Micaceous, fine								
	silt, at 92.0' and 94.0'								
	layers of fine sand (about								
	l inch) stones, hard								
	95.0 - 96.0 (MH) WC-110-23								
	Micaceous, fine sandy silt								
	III Discarded								
	II								
	I Discarded								
	96.0 - 100.0 (ML) Silty clay at 96.5°								
	and 97.5% soft clay								
	7,00								
	100.0- 101.0 (ML) WC-110-24								
	Dry, gray								
	III Discarded								
	II Discarded								
	I								
 	707 0 707 0 (WT) 0								
	101.0- 105.0 (ML) Same as above								
<u> </u>									

	В	ORI	NG	NO.	ΓES						
	Drilling MethodRotary Hole Size										
Angle_Vertical Bearing											
FROM TO INTERV REGOV. REMARKS											
88.0	106.	0			Tricone						
<u>.</u>			<u> </u>								
					-						

CASING NOTES				NOTES	
FROM	τo	SIZE	, , , , , ,	REMARKS	

	SAMPLING NOTES											
	TYPE SAMPLER DROP DROP											
SIZE	w1	OF HAMI	MER		_ DRO	P						
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	B L C		24"				
21	88.0	89.0	1.0			121						
22		91.0				100						
23	95.0	96.0	1.0									
	100.0	101.5	0.5		100							
		•										

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	ELEV INSPECTOR		0							
	GEOLOGIC NOTES			BORI						
Depth	Classification and Physical Characte	r Dri	illing le Siz	Meth	o d	Rot	ary			
	105.0- 106.0 (ML) WC-110-25	An	gle	e Vert	ical	_ Bea	ring			_
	III Discarded			INTERV.	1 .	1	F			
	II Discarded I Clayey silt	FROM	TO	INTERV.	RECOV.	RECOV.		REM	ARKS	
	- Oraș cy our									
			_		ļ			 		
			 	<u> </u>	ļ	ļ				
			 	-		<u> </u>	ļ			
			-	ļ			ļ			
			<u> </u>	<u> </u>	<u> </u>	ļ				
			<u> </u>	 						
· · · · · · · · · · · · · · · · · · ·			-	<u> </u>		 	<u> </u>			
			 							—
			1	<u> </u>	1	<u> </u>	<u> </u>		·	
<u> </u>			C	ASI	NG	NO	ΓΕ	<u></u>		
		FROM	то	SIZE			EMARI			
			<u> </u>	<u> </u>	<u> </u>					
		— [S	AMP	LN	G N	ΩŦ	FS	<u>.</u>	
			AMPLER.			····				
			FROM	T. OF HAM				917	WS	_
				106.0		RECOV.	100	12"	ie"	24"
			100.0	106.0	400		11			
			<u> </u>	· ·			ļ			_
		- $-$	-	-			<u> </u>			-
							<u> </u>			
					,					
]								
				WA	TER	OBS	ER	VAT	10	<u>NS</u>
-		→	OF HOL				····			
	I	I Justin	₩ W M I	- n	1					

HOLE NO. WC-111	DATE	PAGE NO. 1 OF 5 PAGES
LOCATION Broadway & Hollywood	FrwsOB NO. 6148-5	_
COLLAR ELEV. 328.8	INSPECTOR Nielson	

Depth	GEOLOGIC NOTES Classification and Physical Character
	0.0 - 1.0 Asphalt
	-
	1.0 - 5.0 Gravel subgrade
	
	5.0 - 6.5 (ML) WC-111-1
	Gray-brown, damp to dry,
	very fine sandy silt; thin
	lamination, slightly more
	sandy in zones. Dip 50°
	low plasticity.
	IV OK (Some gravel) III OK
	II OK
	I OK
	40 1
	6.5 - 10.0 (ML) Same as above
	Low plasticity
	HOW prasticity
	10.0 - 11.5 (ML) WC-111-2
	Same as above; about 60° di
	IV NF
	III OK
•	II OK
	I OK
	11.5 - 15.0 (ML) Same as above
	15.0 - 16.5 (ML) WC-111-3
	Same as above, some
	more gray beds, more sandy,
	clearer bedding, 60° dip
	III OK
	II OK
	I OK
	16.5 - 20.0 (ML) Same as above

	E	BORING NOTES										
Hole	Drilling Method_Rotary Hole Size5" Angle_Vertical Bearing											
Ang	1e	61 010	<u>a.r.</u>	- Rea	ring							
FROM TO INTERV. RECOV. REMARKS												
		ļ										

CASING			NG	NOTES	
FROM	TO	SIZE		REMARKS	
0		5"			

	S A	MP	LIN	G N	0 T	ĒS				
TYPE SAMPLER_Split-tube SIZE_2" wt. of HAMMER_140 lb DROP_30"										
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L C)WS	24"		
1	5.0	6, 5	1.5		7	21	41			
2	10.0	11.5			12	35	67			
3		16.5			S	23	41.			

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			4

HOLE NO. WC-111	DATE	PAGE NO. 2 OF 5 PAGES
LOCATION Broadway & Hollywood	d FrwyJOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR Nielson	
		···

ULLAR	ELEV INSPECTOR
	GEOLOGIC NOTES
epth	Classification and Physical Character
	20.0 - 21.2 (ML) WC-111-4
	Dark gray, damp to very
	damp, slight very fine sand
	slightly micaceous silt
	No visible bedding planes;
	low plasticity
	III OK
	II OK
	I OK
	21.2 - 25.0 (ML) Same as above
	25.0 - 25.9 (ML) WC-111-5
	Same as above (dark gray,
	damp, slightly sandy- very
	fine, slightly micaceous
	silt; no bedding)
	IV NF
	III NF
	II NF
	I OK
	25.9 - 30.0 (ML) Same as above
	30.0 - 31.5 (ML) WC-111-6
	Same as above
	IV OK
	III OK
	II OK
	I OK
	31.5 - 35.0 (ML) Same as above
	
-+	
	<u> </u>

	BORING NOTES								
Dri	Drilling Method Rotary								
Hole	e Siz	e5	H						
Ang	le_V	<u>ertic</u>	al	_ Bea	ring				
FROM	TO	INTERV.	REGOV.	% RECOV.	REMARKS				
<u> </u>	,								
	·				<u></u>				
<i>'</i>									

	C	ASI	NG	NOTES	
FROM	TO	SIZE	,	REMARKS	
				· · · · · · · · · · · · · · · · · · ·	_

	SAMPLING NOTES							
type sampler Split-tube size 2" wt. of hammer 140 1b drop 30"								
SMPL. NO.	FROM	. то	INTÉRV.	RECOV.	6"	BL()WS	24"
Ъ	20.0	2,2	1,2		16	57	200	
5	25.0		0.9		30	100		
6	30, 0		1.5		18		100	
!								
····	····							

GROUND W	ATER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-111	DATE	<u> </u>	PAGE NO	. <u>3</u> OF <u>5</u> P	AGES
LOCATION Broadway & Holly	ood FrwyJOB NO. 6148	3-5			
COLLAR ELEV.	INSPECTOR_	Nielson			
GEOLOGIC	NOTES		BOBING	NOTES	

OLLA	R ELEV INSPECTOR_N	lielso	n	<u> </u>	_					
	GEOLOGIC NOTES		E	ORI	NG	NO.	TE	S		
Depth	Classification and Physical Character	Drilling Method_Rotary Hole Size5"								_
	35.0 - 35.9 (ML) WC-1:1-7	Anç	jle <u> </u>	ertic	al	_ Bea	ring			
	Dark gray and medium gray,						-			
	damp, slight fine-medium, sandy silt; low plasticity.	FROM	то	INTERV.	RECOV.	RECOV.		REMA	IRKS	
	thin lamination.								<u> </u>	
	bedding clear, 60° dip	 		 						
	_ · · · · · · · · · · · · · · · · · · ·					 	 			
	IV NF	 -	ļ				ļ			
	III OK	 	ļ			<u> </u>				
	II OK				<u>.</u>				:	
	I OK									
	35.9 - 40.6 (ML) Same as above									
	40.0 - 41.0 (ML) WC-111-8						-			
	Same as above, damp to	 	-							
 -†	slightly moist	L	<u></u>			<u> </u>				
<u>-</u>	IV NF		-W							
	III NF	<u> </u>	С	ASI	NG	NOT	ΓE:	<u>S</u>		
	II OK	FROM	то	SIZE		R	EMAR	(S		
·	I OK									
	1 00									
	41.0 - 45.0 (ML) Same as above									
	HISO HAND COMMING OF COOLS		S A	MP	LIN	G N	OT	ES		
	45.0 - 46.0 (ML) WC-111-9	TYPE S	AMPLER_	Spli	t-tub	e				
	Dark gray, damp to slightly		211 w1							
	moist, compact silt; some	NO.	FROM	1 1		RECOV.	6"	12"	18"	24"
	gray and some fine sand,	7		35. 9			30	100		
	low plasticity	8	40.0	41.0	1.0		18	100		
	IV NF		45.0				20	54		
	III OK									
Ī	II OK									
	I OK									
1	46.0 - 50.0 (ML) Same as above									
					,					
		.								
		GRC	UND	WA	TER	OBS	ER	VAT	101	NS
T			OF HOLE		;					

DEPTH OF WATER

HOLE NO. WC-111	DATE 2-27 & 28-62	PAGE NO. 4 OF 5 PAGES
LOCATION Broadway & Hollywood Frv	y JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR <u>Nielson</u>	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	50,0 - 51.0 (ML) WC-111-10
	Same as above
ļ	Some bedding visible, dip
	60°
	IV NF
	III NF
• • •	II OK
	I OK
	51.0 - 55.0 (ML) Same as above
	55.0 - 56.0 (ML) WC-111-11
	Same as above
	IV NF
	III OK
	II OK
	I OK
	56.0 - 60.0 (ML) Same as above
	60.0 - 61.0 (ML) WC-111-12
	Medium to dark gray, damp,
	slightly brittle, slight
	very fine sandy (locally)
	silt; low plasticity
	bedding (thin) laminations,
	60° dip
	IV NF
	III OK
	II OK
	I OK
	61.0 - 65.0 (ML) Same as above
	65.0 - 65.9 (ML) WC-111-13 ·
	Same as above; not much
 	dip visible
 	II OK
	I OK
L	<u> </u>

	BORING NOTES								
Dri	Drilling Method Rotary								
	Hole Size 5"								
Ang	le_ <u>V</u>	<u>ertic</u>	al	_ Bea	ring				
FROM	FROM TO INTERV. REGOV. REMARKS								

	С	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	
				,	

	SAMPLING NOTES							
TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 140 10 DROP 3011								
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	8 L C	18"	24"
10	50.0	51.0	1.0		27	93		
11		56. o			20	100/		
12	60.0	61.0	1.0		lılı	71		
13	65.0	65.9	0.9		48	200		
ĺ	,							
			·				,	
الدخان	·	*			**********	•	· · · · · ·	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-111	DATE	PAGE NO. 5 OF 5 PAGES
LOCATION Broadway & Hollywood	FrwyJOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR Nielson	

	GEOLOGIC NOTES							
Depth	Classification and Physical Character							
	65.9 - 66.2 Dark gray siltstone							
	(drillers est.); hard							
	drilling							
	66,2 - 70.0 Dark gray silt (ML) (As							
	65.0 - 65.9)							
	70 0 70 0 (Mr.) 137 7 7							
	70.0 - 70.9 (ML) WC-111-14							
	Same as above; homogenous							
	II OK							
	I OK							
	70.9 - 75.0 (ML) Same as above							
	75.0 - 76.0 (ML) WC-111-15							
	Dark gray, damp, homogenous							
	silt, low-medium plasticity,							
	no dip visible.							
	III OK							
	II OK							
	I OK							
	76.0 - 80.0 (ML) Same as above							
	80.0 - 80.8 (ML) WC-111-16							
	Same as above							
	II OK							
	I OK							
	80.8 - 83.0 Interbedded silt and thin							
	siltstone; hard drilling							
	(drillers est.)							
	83.0 - 83.6 (ML) WC-111-17							
	Dark gray, damp silt; low							
	plasticity; no bedding.							
	III NF							
	II NF							
	I OK							
T								

				·					
	BORING NOTES								
Drilling Method <u>Rotary</u> Hole Size <u>5"</u> Angle <u>Vertical</u> Bearing									
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS				
	·								
-			b						
					<u> </u>				
					,				
-									

CASING			NG	NOTES	
FROM	TO	SIZE	,	REMARKS	
				·	

SAMPLING NOTES							
TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 110 1b DROP 30"							
FROM	то	INTERV.	RECOV.	- H			2.4
70.0	70.0	*			100	18	24"
-				37	103		
				45	100		
83.0				70	100		
		,			<u> </u>		
	FROM 70.0 75.0	MPLER Split NT. OF HAM FROM TO 70. 0 70. 9 75. 0 76. 0 80. 0 80. 0	mpler Split tube N wt. of hammer 1) FROM TO INTERV. 70.0 70.9 0.9 75.0 76.0 1.0 80.0 80.0 0.8	MPLER Split → tube N	MPLER Split	MPLER Split = tibe MPLER Split = tibe MPLER Split = tibe MPLER Split MPLER S	MPLER Split = tibe MPLER Split = tibe MPLER Split = tibe MPLER Split = tibe MPLER Split LER Split MPLER Split MPLER

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-112	DATE	PAGE NO. 1 OF 6 PAGES
LOCATION Broadway and Sunset	JOB NO. 6148-5	
COLLAR ELEV. 307.1	INSPECTOR Nielson	

 	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 0.5 Concrete
	0.5 - 5.0 Silt, sand and gravel,
	zoned and together (GM) no plasticity
	5.0 - 6.5 WC-112-1
	Brown, damp, gravelly, sandy silt: No plasticit
	(GM and SM), gravel grani- pebbles 1" maximum rounded 30%
	III NF II OK
	1 OK
	6.5 - 10.0 (GM) Same as above, some pebbles to 2", most $\frac{1}{2}$ "
	chips from approximately 1"; lots of silt
	10.0 - 11.5 WC-112-2
	Brown to tan, gravelly, silty sand, sand well-
	graded: No plasticity (GM - SW), some pebbles
i	well decomposed
	II NF I OK
	11.5 - 15.0 (GM - SW) Same as above,
	not hard drilling

	BORING NOTES								
Drilling Method <u>Rotary</u> Hole Size_5"									
Ang	AngleBearing								
FROM	FROM TO INTERV. RECOV. RECOV. REMARKS								
0.5	21.0				Fish—tail				
21.0		G:	ravel		Tricone				
ļ			<u> </u>						

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
. 0	4	5	

SAMPLING NOTES									
TYPE SAMPLER									
FROM	то	INTERV.	REGOV.	6"	B L C	18"	24"		
5.0	6.5	1.5		4	14	21			
	11.5	1.5		.i2	27	40			
	MPLER_ 2" w1 FROM	### ##################################	## MPLER 21 WT. OF HAMMER 1 FROM TO INTERV. 5.0 6.5 1.5	### PIER	MPLER	MPLER	MPLER 21 WT. OF HAMMER 140 1b DROP 30 1		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-112 DATE 2-28-1962

LOCATION Broadway and Sunset JOB NO. 6148-5

COLLAR ELEV. INSPECTOR Nielson

	GEOLOGIC NOTES							
Depth	Classification and	l Physical Character						
	15.0 - 16.5 WC-11	12-3						
		n, damp, very slightly						
	 	elly (fine) silt to						
		parse sand; (SW-SM)						
	· · · · · · · · · · · · · · · · · · ·	to moderate plasticity						
	III							
	II (
	I	JK						
	16.5 - 20.0 (SW-S	SM) Same as above,						
	most	ly (SM) low plasticity						
	20.0 - 20.5 WC-11	12-4						
	Brown	n, wet, silty, gravel-						
		medium - coarse sand:						
		Lasticity (SP); gran-						
	· · · · · · · · · · · · · · · · · · ·	bebbles to $\frac{1}{4}$ ", some to						
		sample stopped on 2"						
	pebb]	Les						
	20.5 - 25.0 Gray-	-brown gravel, sandy,						
	silty	y (GP); ½" _ 3/4" peb=						
	ble o	chips coming over						
	scree	en - may be very silty						
	in pl	Lace: hard drilling						
	25.0 - 25.0 No pe	enetration (40 blows)						
	25.0 - 31.0 (GP)	Same as above, very						
	1	drilling						
	31.0 - 32.0 WC-11	12_5						
		laminations, dark						
		silt and light gray						
		sandy silt, (ML) low						
		ticity, slightly crum-						
		dip about 50-60°						
	III ()K						
	<u> </u>	OK						
	I, C	K						

		ORI	NI A	N O	TEC					
					TES					
Dri	lling	Meth	~ u	Rotar	У					
Hole	e Siz	e	5"							
AngleBearing										
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS					

	T			NOTES	
FROM	то	SIZE		REMARKS	
		1			

TYPE SA	S A		LING	<u> </u>	0 T	ES		
			MER		_ DR	P		
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLC	WS	24"
3	15.0	16.5	1.5		5	13	20	
4	20.0	20.5	0.5		56 5			
5	31.0	32.0	1.0		28	72		

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-112 DATE 2-1-1962 PAGE NO. 3 OF 6 PAGES

LOCATION Broadway and Sunset JOB NO. 6148-5

COLLAR FLEV INSPECTOR Nielson

)onth	GEOLOGIC NOTES							
Depth	Classification and Physical Character							
	32.0 - 35.0 (ML) Same as above							
	25 0 26 0 MC 112 6 Depte grove gligh							
	35.0 - 36.0 WC-112-6 Dark gray, slight ly very fine, sandy, damy							
	silt; low plasticity (ML							
	no apparent dip							
	III NF							
	II OK							
	_ I OK							
	36.0 - 40.0 (ML) Same as above							
	40.0 - 41.0 WC-112-7							
	(ML) Same as above, some							
	slight color difference,							
	no definite dip							
	III NF							
	II OK							
	I OK							
	<u>11.0 - 45.0 (ML) Same as above</u>							
	<u> 45.0 - 45.4 WC-112-8</u>							
	Dark gray, damp homo-							
	geneous silt, low plasti							
	city, crumbly (ML), no							
	apparent dip							
	III NF							
	II MF							
	I OK							
	45.4 - 50.0 (ML) Same as above and							
	some damp zones of very							
	sandy (medium) silt; (SM							
	no plasticity							

Hole	lling e Siz	e	o d					
FROM	то		Bearing					
		a imi			, age to the second			
			<u> </u>					
· · · · · · · · · · · · · · · · · · ·								

CASING				NOTES	
FROM	TO	SIZE		REMARKS	

		LING	<u>3 N</u>	<u>0 T</u>	<u>ES</u>	··	
SIZE WT. OF HAMMER DROP							
FROM	то	INTERV.	REGOV.	6"			24"
35.0	36.0	1.0		28			
40.0	41.0	1.0		18			
45.0	45.4	0.4		100			
	FROM 35.0	WT. OF HAM FROM TO 35.0 36.0 40.0 41.0	## WT. OF HAMMER TO INTERV. 35.0 36.0 1.0 40.0 41.0 1.0	##PLER	##PLER	WT. OF HAMMER DROP FROM TO INTERV. RECOV. 6" 12" 35.0 36.0 1.0 28 80 40.0 41.0 1.0 18 60	MPLER

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NOWC-112	DATE	PAGE NO. 4 OF 6 PAGES
LOCATION Broadway and Sunset	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR Nielson	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	50.0 - 50.8 WC-12-9
	Dark gray, compact, damp
	silt and dark gray, silty,
	fine - medium sand, (ML) -
	(SM), no to low plasticity,
	no bedding visible
	III NF
	II OK
	I OK
<u> </u>	50.8 - 55.0 Interbedded dark gray silt
<u> </u>	and dark gray fine sands
 	(ML - SM)
<u> </u>	<u> </u>
<u> </u>	55.0 - 55.5 WC-112-10
 	Dark gray, silty, damp to
ļ	wet, micaceous, fine to
	medium sand, no plasticity
	(SM)
<u> </u>	III NF
	II NF
	1 OK
<u> </u>	
<u> </u>	55.5 - 60.0 Dark gray, silty, fine -
<u> </u>	medium sands, no plasti-
	city (SM)
<u> </u>	
	60.0 - 60.9 WC-112-11
	Dark gray, damp, compact
<u> </u>	homogenous appearing silt;
	(ML) No - low plasticity
<u></u>	III NF
	II OK
L	I OK
ļ	
	60.9 - 65.0 Dark gray, damp, sandy,
 	compact silt, (ML) low
<u> </u>	plasticity
ļ	
1 1	1

		BORI	NG	NO.	TES	
	Drilling Method					
		Size				
Ang	le			- Rea	ring	
FROM	TO	INTERV.	REGOV.	% REGOV.	REMARKS	
		ļ				
		ļ				
			-			

	С	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	
		\\	-		

SIZE WT. OF HAMMER				_ DRO	P			
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L C	18"	24
9	50.0	50.8	0.8		65	100		
10	55.0	55.5	0.5		175			
11	60.0	60.9	0.9		50	. JO		
							Α.	

GROUND WA	TER	OBSI	ERVAT	IONS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

HOLE NO. WC-112	DATE3-1, 2, 1962	PAGE NO. 5 OF 6 PAGES
LOCATION Broadway and Sunset	JOB NO. 6148-5	.
COLLAR ELEV.	INSPECTOR Nielson	

	GEOLOGIC NOTES	
Depth	Classification and Physical Characte	r
	65.0 - 66.0 WC-112-12	
	Dark gray, damp, slight	ly
	crumbly, compact, fine	
	sandy in zones, silt;	lov
	plasticity (ML)	
	III NF	
	II OK	
	I OK	
	66.0 - 70.0 Dark gray, damp to wet, sandy silt, low - no pl	
	ticity (ML); easier dri	
	ling	<u> 1 🦘 </u>
		_
	70.0 - 71.0 WC-112-13	
	Dark gray to light gray	
	damp to nearly dry,	
	slightly sandy to very	
	sandy, compact silt; 1	
	plasticity (ML), no bed	(SE)
	ding	
	III OK	
	II OK	
	I OK	
	71.0 - 75.0 Dark gray, damp, sandy	
	sîlt; (ML) no longer	
	easier drilling	
	57 0 57 0 MO 330 31.	
	75.0 - 75.8 WC-112-14 Dark gray, some medium	
	gray, damp to nearly dr	٦٢.
	some compact crumbly si	
	some zones very sandy,	<u>+ Y</u>
-	low plasticity (ML), no	
	dip	
	III NF	
	II OK	
	I OK	

	BORING NOTES						
Drilling Method							
			Bearing				
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS		
	<u> </u>						

CASING				NOTES	
FROM	то	SIZE		REMARKS	

TYPE S		DROP						
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"		WS	24"
12	65.0	66.0	1.0		28	100		
	70.0				28	83		
	75.0				32	100		

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	GEOLOGIC NOTES		E	BORI	NĞ	NO	ΤE	S	
Depth	Classification and Physical Character		illing						
	75.8 - 80.0 (ML) Same as above		le Siz gle <u> </u>						
		-	7	T		T	_		- 7
	80.0 = 80.8 WC-112-15	FROM	то	INTERV.	RECOV.	RECOV.		REMA	IRKS
	Dark gray and light gray,			 		 			
	damp, compact, none to	 	 	 					
	sandy silt; low plasticity		+						
	(ML), bedding laminations	<u> </u>	 		ļ	ļ			
	visible, 60%						<u> </u>		
	III NF II OK								
	I OK								
	1 08								
	80.8 - 82.0 (ML) Same as above		1		·		<u> </u>		
								**	
	82.0 - 83.0 WC-112-16	<u> </u>	-			<u> </u>			
	(ML) Same as above	<u> </u>	<u> </u>	l	<u> </u>	<u> </u>	<u></u>	·	
	III OK		C	ΔSI	NG	NOT	ΓF	S	
	II OK	FROM	то	SIZE			EMARI		
	I CK	-							
				MO	1 31 4	<u> </u>	\ \ T		
		TYPE S	AMPLER_	4 IVI F	LINI	G N	<u>U I</u>	<u>E 3</u>	
		SIZE_		. OF HAMI	MER		_ DR		
		SMPL. NO.		то	INTÉRV.	RECOV.	6"	BL0	WS 18"
			80.0				30	100	
		16	82.0	83.0	1.0		20	80	····
			ļ		····			\sqcup	
			<u> </u>				<u> </u>		
								\sqcup	
		1	1			1			
		<u> </u>							$\overline{}$
					1				

TIME OF OBSERV.

HOLE NO. WC-113	DATEMarch 2, 3, 196 PAGE NO. 1 OF 5 PAGES
LOCATION _ Spring and Macy	JOB NO. 6148-5
COLLAR ELEV. 296.36	INSPECTORNielson

		296.36 INSPECTOR_				_					
	GEOLOG	SIC NOTES	4		BORI				<u>S</u>		
Depth	Classificati	ion and Physical Character	Dri	illing le Siz	Meth e	od Ro	tary 5"				
	0.0 - 0.5	Asphalt	An	gle	Verti	cal	_ Bea	ring			_
	0.5 - 0.8	Red Brick	FROM	то	INTERV	REGOV.	% R E GOV.		REM	ARKS	
	0.8 - 1.5	Concrete (Kalph)		15.0	1			I	sh t		
	1.5 - 1.8	Gravel subgrade		26.0 65.0	1				i <u>con</u> sh t		
	1.8 - 5.0	Brown, damp to wet, slight ly fine sandy silt, low -	,								
	5.0 - 6.5	(SM) WC-113-1									
		Brown, damp to moist, silty, fine - medium sand, medium plasticity,									
		some pebbles; - one 2" rounded	$\exists \Box$	С	ASI	NG	NO	ΓΕ	S		
		III NF	FROM	то	SIZE		R	EMARI	(5		
		TI OK	1								_
		I OK .] ـ	<u> </u>	<u> </u>	<u> </u>		····			
	6.5 - 9.0	(SM) Same as above			AMP	LIN	G N	0 T	ES		
			SIZE	AMPLER_ W		MER		_ DRO	P		_
	9.0 - 10.0	Brown (muddv), damp, silty gravelly sand, fine - coar		FROM	то	INTĒRV.	RECOV.	6"	BLC	WS	
		sand, medium - coarse grav	717	1	6.5			6		2 <u>]</u> 903	_
		(GM) - (SM)	- 	True V	 			Q	26	<u> </u>	
	10.0 - 11.0	(GM-SM) WC-113-2									
		Brown, damp to moist, silt	4 [-	 						H
		to gravelly, medium coarse sand; no plasticity,	┨├──								-
			\dashv	 							
		granijar nennjes iilik		1	1 :	i	I	l.	ı İ		í
		granular pebbles, 40%,	┪├──								T
		rounded 1"									
			GRO	DUND	WΔ	TFR	OBS	FR	VAT	10	

DEPTH OF WATER

HOLE NO. WC-113	DATEMarch 2, 3,1962 PAGE NO. 2 OF 5 PAGES
LOCATION Spring and Macy	JOB NO. 6148-5
COLLAR ELEV. 296.36	INSPECTORNielson

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	11.0 - 15.0 (GM) Same as above, more
	difficult drilling at 14.0'
	15.0 - 15.6 (GM) WC-113-3
	Same as above, more gravelly
	some pebbles medium de-
-	composed. No plasticity
	III NF
-	I CK
	1 On
	15.6 - 20.0 (GM) Same as above, rocky
	drilling and not too com-
	pact
	20.0 - 20.5 (SM) WC-113-4
	Brown, slightly silty,
	damp, slightly fine, grav-
·	elly, medium - coarse sand;
	no plasticity, some
	(GM) at top
	III NF
	li NF
	I OK
	20.5 - 25.0 Compact rocky drilling,
	(GM) hard drilling,
	gravel fragments over
	screen
<u> </u>	25.0 No sample; m penetration -
	20 blows
	25.0 - 26.0 (GM) Same as a bove
ļ	25:0 - 20:0 (dif) band ab a ave
	26.0 Brown, damp, sandy, clayey
	silt; Get good plasticity
	test - sample muddy (MH)
	(Probably ML)

		Е	ORI	NG	NO.	ΓES				
	Drilling MethodRotary									
	Hole	e Siz	е		5"	7. T. William				
	AngleVertical Bearing									
	FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS				
у	9									
	,									
	,									
Į										

	C	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	
				· · · · · · · · · · · · · · · · · · ·	

SIZE_	w1	. OF HAM	MER		DR			_
SMPL. NO.	FROM	то	INTÈRV.	REGOV.	6"	8 L C	18"	24"
3	15.0	15.6	0.6		40	79		
7	20.0	20.5			45	68		
						† · · · · · · · ·		
				····	l	†		

GROUND WA	TER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-113	DATE March 2, 3, 1962PAGE NO. 3 OF 5 PAGES
LOCATION Spring and Macy	JOB NO. 6148-5
COLLAR ELEV.	INSPECTORNielson

Depth	Classificati	on and Physical Character
	30.0 - 31.0	(ML) WC-113-5
		Thin laminated, various
		dark-light grays, damp to
		nearly dry, slight to very
		sandy (fine) silt:
		Compact, dip approximatel
		III OK
		II OK
		I OK
	27 0 25 0	(ML) Same as above
	31.0 - 32.0	(III) Dame as above
	35 0 - 36 0	(ML) WC-113-6
	<u> </u>	
		Same as above, slightly
		less sandy, low plasticity
		crumbly
		III OK
		II OK
		I OK
	36.0 - 10.0	(ML) Same as above
	J0.0 - 40.0	(III) Dame as above
	J.O.O J.T.O	(ML) WC-113-7
	40.0 - 41.0	Dark gray, damp, to nearly
		dry, compact silt, low
		plasticity - crumbly
		Not much dip - homogenous
		III OK
	<u> </u>	II OK
		I OK
	1.7 0 1.5 0	(ML) Same as above
	41.0 - 45.0	One thin siltstone bed at
		· · · · · · · · · · · · · · · · · · ·
		43.0' (Driller)
	 	
		
]	

BORING NOTES Drilling Method Hole Size									
Ang	le			_ Bea	ring				
FROM	то	INTERV.	INTERV. RECOV. RECOV. REMARKS						
				<u> </u>					
2									

CASING				NOTES	
FROM	TO	SIZE	,	REMARKS	

SIZE	IZE WT. OF HAMMER				_ DRO			
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BL(18"	24
5	30.0	31.0	1.0		18	60		
6	35.0	36.0	1.0		16	63		
7	40.0				28	92		
			···					

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-113	DATE March 2, 3, 196 PAGE NO. 4 OF 5 PAGES
LOCATION Spring and Macy	JOB NO. 61148-5
COLLAR ELEV.	INSPECTORNielson

GEOLOGIC NOTES					
Depth	Classification and Physical Character				
	45.0 - 4 5 .8	(SP) WC-113-8			
		Dark gray, damp, to moist			
		silty, fine - medium sand			
		no plasticity			
		III NF			
		II NF			
		I OK			
	45.8 - 50.0	(SP) Same as above (some			
		ML)			
	50.0 - 51.0	(ML)WC-113-9			
		Dark brownish - gray,			
		slightly very fine sandy,			
		damp to dry, compact silt			
		low plasticity, no			
		dip - homogenous			
		III OK			
		TI OK			
		I OK			
	51.0 - 55.0	(ML) Same as above, more			
		compact - hard drilling			
	55.0 - 55.8	(ML) WC-113-10			
		Laminated dark gray-light			
		gray, slight to very sand			
		(fine), damp to dry silt;			
		low plasticity			
		dip approximately 50%			
		III NF			
		II OK			
		I OK			
	55.8 - 60.0	(ML) Same as above			
	· a				
					

		BORI			
		e		ring	
FROM	то	1	RECOV.		
<u> </u>					

	С	ASI	ING NOTES
FROM	TO	SIZE	REMARKS

	SAMPLING NOTES						
	YPE SAMPLER				_ DR	OP	
SMPL.	FROM	то	INTÉRV.	REGOV.	6"	B L (24"
8	45.0	45.8	0.8		35	75	
9	50.0	51.0	1.0		20	69	
10	55.0	55.8	0.8		42	100	

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	GEOLOGIC NOTES] [E	30RI	NG	NO	TF	S	
Depth	Classification and Physical Character	Dri	illing le Siz	Meth	od				
	60.0 - 61.0 (ML) WC-113-11		gle						
	Same as above III OK II OK	FROM	1	INTERV.				REMA	
	I OK	↓	 	ļ	ļ	 	┼	······	
	61.0 - 65.0 (ML) Same as above	1					-		·
	65.0 - 65.7 (ML) WC-113-12]	ļ			 	┼		
	Dark gray, damp, slightly]	 	 		 	 		
	very fine sandy silt; low	↓ ├	 			<u> </u>	 		
	plasticity, crumbly,	 	 	 		 	-		
	no dip apparent	┨┣ <u></u>	 	ļ <u></u>		<u> </u>	↓		
	III NF	┦┗							
	JT OK	1							
	I CK	<u> </u>							
		1	С	ASI	NG	NO	ΓE:	S	
<u> </u>	<u> </u>	FROM	то	SIZE		R	EMARI	KS	
]	<u> </u>						
]							
			S A	AMPI	LING	G N	0 T	ES	
		SIZE_		T. OF HAME	MER		DR(
-	 	SMPL. NO.	FROM	то	INTÉRV.	RECOV.		BLO	
		11		61.0				100	
		12	65.0	65.7	0.7		40	100	
]	ļ	L				 	
]	ļ					 	
]	<u> </u>					\sqcup	
		 		<u> </u>		<u> </u>		 	
]							

DEPTH OF WATER

HOLE NO. WC-114	DATE 3-5-62	PAGE NO. 1 OF 3 PAGES
LOCATION Macy & Alameda Sts.	JOB NO. 6148-5	·
COLLAR ELEV. 278.4	INSPECTOR_R. Singh	

epth		GIC NOTES ion and Physical Character
		Asphalt - Concrete
	1 0 0,4	inspirate outer out
	0.4 - 2.5	(GW) Gravel-sand mixture
	2.5 - 5.0	(GW) Gravel-sand mixture,
		well graded, about 50%
		gravel, subangular, about
		15% coarse sand, damp,
		light brown, inorganic.
	40 / 4	(011) 110 22) 2
	5.0 - 6.5	(GW) WC-114-1
		III Empty
		II Empty I Disturbed
		1 Disturbed
	6.5 - 10.0	(GW) Gravel with little
<u></u>	1 200	sand mixture, mostly
		cobbles and boulders, no
		fines.
	10.0 - 10.0	WC-114-2
		No penetration
		III No sample
		II No sample
		I No sample
		<u> </u>
	10.0 - 14.0	(GW) Gravel as above with
		no change.
<u>-</u>	14.0 - 16.0	(GW-SM) Gravel-sand
		mixture becoming silty
		sand with very little clay
	- 	at about 15.0'
	160 17 0	MC 131. 2 No zomalo
	16.0 - 17.5	WC-llh-3, No sample
		III No sample II No sample
		I No sample
	+	T MA Sembre

-	В	ORI	NĠ	NO.	TES	
Drilling Method Rotary Hole Size 5"						
Angle_Vertical Bearing						
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS	
0	5.0	5.0			Tri-cone	
5.0	10.0	5.0			Fish-tail	
10.0	53.0	43.0			Tri-cone	
					_	
			:			

	С	ASI	NG NOTES
FROM	TO	SIZE	REMARKS
0	2.5	5"	Surface Collar

	SAMPLING NOTES TYPE SAMPLER SPLIT-Tube							
SIZE 2	SIZE 2 WT. OF HAMMER 140 1bs DROP 301							
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8L()WS	24"
j j	5.0	6.5	1.5		14	15	28	
2	5.0	10.0	0		10	леf	usa.	
3	16.0	17.0	1.5		6	15	26	
,								

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	•
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-114	DATE 3-5-62	PAGE NO. 2 OF 3 PAGES
LOCATION Macy & Alameda St.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLO	GIC NOTES
Depth	Classificat	ion and Physical Character
	16.0 - 18.0	(SM) Silty fine sand,
		medium dense, inorganic,
		dark gray color.
	18.0 - 19.5	WC-114-3A
		No sample
	<u> </u>	III - No sample
		II No sample I No sample
		I No sample
	18.0 - 20.0	(ML) Silty, fine sand,
	,	dark gray color, micaceous,
		damp, inorganic.
	20.0 - 21.5	(ML) WC-114-4
		Silty fine sand
		III NF
		II NF
		I NF
	21.5 - 25.0	(ML) Silty, fine sand,
		gray color, medium dense,
		inorganic becoming coarse
		sand-silt mixture.
	25.0 - 26.5	(ML) WC-1114-5
		Same as above
		III Empty
		II Empty
		I Empty
	26.5 - 30.0	(GM) Gravel-sand-silt
-		mixture, beds of gravel
		at 27.0' and 29.0' and
		coarse sand binder.

Dril				NOT	ES
			Bearing		
FROM	TO	INTERY.	RECOV.	% RECOV.	REMARKS

CASING			NG	NOTES	
FROM	τo	SIZE		REMARKS	
			- 1		
l l		}			

SMPL.	w1			I	_ UR	0P	ows '	
NO.	FROM	TO	INTERV.	RECOV.	6"	12"	16"	24"
ЗА	18.0	19.5	1.5		3	9	17	
4	20.0	21.5	1.5		5	13	24	
5	25.0	26.5	1.5		10	25	38	
		-						
	 				 	+	ļ	

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-1.14	DATE $\frac{3-5-62}{}$	PAGE NO. 3 OF 3 PAGES
LOCATION Macy & Alameda St.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Singh	

GEOLOGIC NOTES					
Depth	Classification	n and Physical Character			
	30.0 = 30.8 (GM) WC-114-6			
		Pravel-sand-silt mixtures			
		III Empty			
		I Empty			
		I Empty			
	31.5 - 35.0	(GW) Gravel with little			
		sand mixture, mostly cobble			
	t	ooulders			
	2r 0 2r 0 %	VC-114-7			
		No penetration			
		<u>III No sample</u> II No sample			
		I No sample			
	 	L NO DOMPLE			
	36.5 - 40.0	(GW) Same as above			
	40.0 - 40.0	WC=114-8, No penetration			
		III No sample			
		II No sample			
····		No sample			
	40.0 - 46.0	(GW) Gravel with thin			
		peddings of coarse gravel-			
	S	sand mixture, dense, damp,			
	j	inorganic.			
	46.0 = 46.4 V	VC-114-9			
-		III Empty			
		II Empty			
		r NF			
	46.0 53.0	GW) Gravel with little			
		and mixture			
	53.0 - 53.0	(C-114=10			
		III Empty			
		II Empty			
		I Empty			

	E	BORI	N G	NO.	TES	
Drilling Method						
Ang	le			_ Bea	ring	
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS	

	С	ASIN	G NOTES
FROM	то	SIZE	REMARKS
			·

w1	. OF HAMI	MER		_ DRC	P		
FROM	то	INTERV.	REGOV.	6"	8 L C		24
30.0	30.8	0,0		5	10/		
35.0	35.0	0		15-6	Ref	usa	1
40.0	40.0	0		20 °C	Ref	usa	1
46.0	46.4	0.4		59/4			
50.0	50.6	0.5		100			
	FROM 30.0 35.0 40.0 46.0	FROM TO 30.0 30.8 35.0 35.0 40.0 40.0 46.0 46.4	FROM TO INTERV. 30.0 30.8 0.0 35.0 35.0 0 40.0 40.0 0 46.0 46.4 0.4	FROM TO INTERV. REGOV. 30.0 30.8 0.0 35.0 35.0 0 40.0 40.0 0 46.0 46.4 0.4	FROM TO INTERV. REGOV. 6" 30.0 30.8 0.0 5 35.0 35.0 0 15.0 40.0 40.0 0 30.0 46.0 46.4 0.4 59.4	FROM TO INTERV. RECOV. 6" 12" 30.0 30.8 0.0 5 8 35.0 35.0 0 15.0 Ref 40.0 40.0 0 30 Ref	30.0 30.8 0.0 5 16 35.0 35.0 0 15.0 Refusa 40.0 40.0 0 29.0 Refusa 46.0 46.4 0.4 59.4

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-115	DATE	PAGE NO. 1 OF 3 PAGES
LOCATION Macy & Terminal Annex	JOB NO. 6148-5	
COLLAR ELEV. 274.7	INSPECTOR R. Singh	

<u> </u>	GEOLOGIC	NOTES
Depth	Classification	and Physical Character
	0.0 - 0.6 Aspl	nalt - concrete
	0.6 5.0 (04)	Gravel with sand mix-
		e, light brown color,
	coar	rse sand with 50% gravel,
		ılar, damp, inorganic
	5.0 - 6.5 WC-	
		Empty
	ĪI	Disturbed
	1	Disturbed
	6.5 - 11.0 (GW.	-SP) Gravel-sand mixture
		oming medium sand at 110
		o, inorganic, friable,
		nt brown color, medium
	dens	
·		
	11.0 - 12.5 (SP)	
		d, medium grained
		NF, Discarded
	II	
	I	
	12.5 - 15.0 (SP)	Sand, medium grained
	mixe	ed with gravel, light
	brov	vn color, inorganic
	15.0 - 16.4 (SP-	-SM) WC-115-3
	Sand	d, medium grained, damp,
	with	n dark brown vertical
· ·		atification of silty sand
		small amount of clay,
		consistency
	T	Empty
		Empty
	I I	
	<u> </u>	

BORING NOTES Drilling Method Rotary Hole Size 5" Angle Vertical Bearing						
Ang	le	71 0100	*	_ Bea	ring	
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS	
0	5.0	5.0			Fish-tail	
5.0	51.0	46.0			Tri-cone	
					-	
	,					
t						

CASING NOTES						
FROM	TO	SIZE	REMARKS			
0	2.5	5"	Surface collar			

†	SA	A M P	LIN	G N	0 T	ES		
TYPE SA	MPLER_	COF HAM	t-tube	e O <u>l</u> b	_ DR	op_3	O ¹¹ .	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BL 12"	OWS	24"
1.	5.0	6.5	1.5		8	22	36	
2	11.0	12.5	1.5		18	52	97	
3	15.0	16.4	1.4		16	30	36	

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-115	DATE	PAGE NO. 2 OF 3 PAGES
LOCATION Macy & Terminal Annex	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR_R. Singh	

GEOLOGIC NOTES				
Depth	Classification and Physical Character			
	16.4 - 20.0 (SP-SM) Sand with gravel			
	mixture, vertical stratifi-			
	cation of silty sand from			
	15.0°, becoming gray in colo			
	00 0 01 f (SW) NO 11 f 1			
	20.0 - 21.5 (SM) WC-115-4 Silty sand with very small			
				
 -	amount of clay III NF, Discarded			
}	III NF, DISCARGE			
	I			
	21.5 - 25.0 (GW) Gravel-sand with hard			
	layers of cobbles and			
	boulders			
ļ				
<u> </u>	25.0 - 25.6 (GW) WC-115-5			
<u> </u>	III Empty			
	II Empty			
	I NF, Disturbed			
	25.6 - 30.0 (GW-SP) Gravel with thin			
	layers of sand, about 50%			
	gravel, well graded, coarse			
	grained sand becoming silty			
	fine sand at 30.0			
	30.0 - 31.5 (SM) WC-115-6			
	Silty sand, damp, inorganic			
	dark gray color			
 	III Empty			
 -	II -			
 -	<u> </u>			
 	27 E 25 O (CM) Graval good of 1+ min			
 	31.5 - 35.0 (GM) Gravel-sand-silt mix-			
	ture, very small amount of silt, hard gravel with			
 	cobbles & boulders			
	CODDITION OF DOCUMENTS			

,	BORING NOTES					
	illing Method					
					ring	
FROM	то	INTERV.	RECOV.	% RECOV.	R E M ARKS	
					·	

	C	ASINO	NOTES
FROM	то	SIZE	REMARKS
}		1	

TYPE SAMPLER					_ DR) P		
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	8 L	OWS	24"
Ĺ	20.0	21.5	1.5		9	35	62	
5	25.0	25.6			52			
6	30.0	31.5	1.5		6	11	20	
						ļ	†	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATE3=6=62	PAGE NO. 3 OF 3 PAGES
LOCATION Macy & Terminal Annex	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR_R. Singh	

,	GEOLOGIC NOTES
Depth	Classification and Physical Character
	35.0 - 35.0 WC-115-7
	No penetration
	III No sample
	II No sample
<u> </u>	I No sample
	35.0 - 40.0 (GW-SP) Gravel, well graded,
	about 10% sand, hard, cobbles
	and boulders, damp with thin
<u> </u>	horizontal layer of gravelly
	sand at 38.0
 -	100 110 (CD CM) 112 117 0
	40.0 ~ 41.0 (SP~SM) WC~115~8
	Gravelly sand with thin lenses of silty sand in
	tubes II and I
	III Empty II
	ī
	<u></u>
	41.0 - 45.0 (SP) Gravelly-sand, coarse,
	damp, inorganic, cobbles
	45.0 = 45.6 (SP) WC-115=9
	Same as above
	III Empty
	II Empty
	I
	45.6 = 51.0 (GW) Gravel with little
	amount of sand, cobbles and
	boulders
	
	51.0 ~ 51.6 (GW) WC-115-10
	Gravel as above
	III Empty
	II
-	I
 	

,) O D :	<u> </u>	11.0:	TEA		
	BORING NOTES						
Dril	lling	Meth	o d				
Hole	Hole Size						
Ang	le			Bearing			
FROM	то	INTERV.	REGOV.	% RECOV.	R E M ARKS		
		<u> </u>					
		ļ	<u> </u>				
		ļ					
		ļ					

CASING			NG NOTES
FROM	то	SIZE	REMARKS
j		1	

	WT. OF HAMMER				DROPBLOWS			_
SMPL. No.	FROM	TO	INTERV.	RECOV.	6"	12"		2
7	35.0	35.0	0		20/0"	Re	fus	1.1
8	40.0	41.0	1.0		22	94		
9	45.0	45.6	0.5		80			
10	51.0	51.6	0,.5		87			L
						_		
								_

GROUND WATE	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-116	DATE	PAGE NO. 1 OF 4 PAGE
LOCATION Macy Street and Avila	JOB NO. 6148-5	_
COLLAR ELEV. 270.9	INSPECTOR R. Singh	

	GEOLOGIC NOTES				
Depth	Classificat	ion and Physical Character			
	0.0 - 0.4	Asphalt - concrete			
	0.4 - 5.0	(GW) Gravel-sand mixture, coarse sand, damp, well			
		graded gravel, inorganic			
	5.0 - 6.2	(GW) WC-116-1			
		Gravel-sand			
		III Empty			
		II Empty			
		I			
	6.2 - 10.0	(GW) Gravel-sand mixture,			
		coarse sand.damp with little			
		silt, inorganic, no plasticity			
	10.0 - 11.5	(SM) WC-116-2			
	<u> </u>	Silty sand, brown color with			
		gravel mixture			
		III Empty			
		II Discarded			
		I			
	77 74 74 0				
	11.5 - 10.0	(CW) Gravel with little sand			
		mixture, cobbles and river			
		boulders becoming (SW) well graded sand at 16.0',			
		gravelly			
		graverry			
	16.0 - 17.0	(SW` WC-116-3			
		Sand, coarse with gravel			
		mixture, inorganic, damp			
		III Empty			
		II			
		I			
	17.0 - 20.0	(SW) Sand, coarse with			
		gravel mixture, as above			

	lling e Siz		od	NO Rotar	TES
Ang	jle <u>V</u> e	ertica	al_	_ Bea	ring
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS
0	65.0	65.0			Tri-cone
					·

CASING NOTES					
FROM	то	SIZE	REMARKS		
0	2.5	2"	Surface collar		

	S	MP	LIN	3 N	0 T	E S		
TYPE SA	MPLER_	Spli. Of ham	t-tub	e O 1b	_ DRC)P	30 n	
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L (0WS	24"
1	5.0	6.2	1.2		6	20	24	
2	10.0	11.5	1.5		4	8	16	
3	16.0	17.0	1.0		32	74		
<u> </u>							 	
<u></u>	<u> </u>						<u> </u>	

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-116	DATE	PAGE NO. 2 OF 4 PAGES
LOCATION Macy Street and Avila	JOB NO. 6148-5	<u> </u>
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	20.0 - 21.5 (SW-SM) WC-116-4
	Sand, coarse with vertical
	stratification of silty sand
	dark gray, inorganic,
	micaceous (?)
	III Disturbed
	II
	I
	21.5 - 25.0 (GW) Gravel with little sand
	mixture, becoming more sand,
	coarse, damp, gray color
	25.0 - 26.0 (SW) WC-116-5
	Sand, coarse with gravel,
	rounded, mostly river type
	III Empty
	II Empty
	I Disturbed
	26.0 - 31.0 (GW) Gravel with cobbles
	and boulders
	31.0 - 32.0 (GW) WC-116-6 Same as above
	III No sample
	II No sample
	I No sample
<u>3-8-62</u>	** ** #* #* #* #* #* #* #* #* #* #* #* #
	32.0 - 35.0 (GW) Gravel with coarse sand
	mixture, gray sand, damp,
	inorganic, medium grained,
	no consistency
	35.0 - 36.0 (SW) WC-116-7.
	Sand, coarse, gray color,
	inorganic, damp, gravelly
	III Empty
	II
	I

			N Ć	N O	TEC
BORING NOTES Drilling Method Hole Size					
Ang	le			_ Bea	ring
FROM	то	INTERV.	RECOV.	% REGOV.	R E M ARKS
1,					
		ļ			

	С	ASI	NĠ	NOTES	
FROM	то	SIZE		REMARKS	

w1	OF HAMI	MER		DRO			
FROM	TO	INTERV.	RECOV.	6"	12"	18"	24
20.0	21.5	1.5		5	37	101	
25.0	26.0	1.0		15	46		
31.0	32.0	1.0		21	90		
35.0	36.0	1.0		20	86		
					ļ		
	FROM 20.0 25.0 31.0	FROM TO 20.0 21.5 25.0 26.0 31.0 32.0	FROM TO INTERV. 20.0 21.5 1.5 25.0 26.0 1.0 31.0 32.0 1.0	FROM TO INTÉRV. RECOV. 20.0 21.5 1.5 25.0 26.0 1.0 31.0 32.0 1.0	FROM TO INTERV. RECOV. 6" 20.0 21.5 1.5 5 25.0 26.0 1.0 15 31.0 32.0 1.0 21	FROM TO INTERV. RECOV. 6" 12" 20.0 21.5 1.5 5 37 25.0 26.0 1.0 15 46 31.0 32.0 1.0 21 90	FROM TO INTERV. REGOV. 6" 12" 18" 20.0 21.5 1.5 5 37 101 25.0 26.0 1.0 15 46 31.0 32.0 1.0 21 90

GROUND WA	ATER	OBSERV	ATIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-116	DATE $\frac{3-8-62}{}$	PAGE NO. 3 OF 4 PAGES
LOCATION Macy Street and Avila	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Singh	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	36.0 - 40.0 (SW) Sand, coarse, damp, dense with about 20% gravel, gray color, little fines
	40.0 - 40.8 (SM) WC-116-8 Sand, silty gray color, very damp, inorganic III Empty II NF
	I 40.8 - 45.0 (SM) Sand, silty, gray color as above becoming coarse sand at 44.0
	45.0 = 45.6 (SW) WC-116-9 Sand, coarse, damp III Empty II Empty I Disturbed
	1,5.6 - 1,9.0 (SW) Sand, coarse gray color, very damp, inorganic
	19.0 - 49.6 (SW) WC-116-10 Same as above III Empty II Empty I
	49.6 - 55.0 (SW) Sand, coarse gray color, very damp as above
	55.0 - 55.6 (SW) WC-116-11 Same as above III Empty II Empty I
	55.6 - 60.0 (SW) Same as above

BORING NOTES								
	-	Meth e						
					ring			
FROM	то	INTERV.	RECOV.	% REGOV.	REMARKS			
		<u> </u>						

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
		1	

SAMPLING NOTES									
TYPE SAMPLER WT. OF HAMMER DROP									
SMPL.	1		MER		_ DRO	P.—.	:		
NO.	FROM	то	INTERV.	REGOV.	6"	12"	18"	24"	
8.	40.0	40.8	0.8		30	ص ص			
9	45.0	45.6	0.5		94				
10	49.0	49.6	0.5		100				
11	55.0	55.6	0.5		80				
								ļ <u>.</u>	

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

						<u> </u>		_							
HOLE N	O			DA	TE <u>3-8-</u>	62		•	PAG	E NO.	<u>4</u> ()F_4	<u> </u>	PA(GE:
LOCATIO	ON Macy Stree														
COLLAR	R ELEV			. INS	PECTOR_	R.	Sin	gh							
	GEOLO	GIC	NOT	E S			, -	E	BORI	ΝĜ	NO.	TES	<u> </u>		
Depth	Classifiçat	ion o	and Ph	ysical	Character		Но	lling le Siz	e						
	60.0 - 60.8	(SW-	SM) WC-	-116-12	2		An	gle			_ Bea	ring.			
		silt	y sand,	fine	little , gray col	.or	FROM	то	INTERV.	REGOV.	% R E COV.		REMA	RKS	
			Empty											<u> </u>	
			1311p 0,y												
		I				_									
	60.8 - 65.6	(SM_	SW) Sil	tv sar	nd becomin							ļ			
					nd, damp,	<u></u>		 	ļ			ļ			
		gray	, inorg	ganic,	low to			 			<u></u>				
		zero	consis	stency											
	65.6 - 66.0	(SW)	WC-116	 5-13				<u> </u>			 	ļ			
		Same	as abo	ve				1							
-			Empty		······································	_ '					<u> </u>				
		Ī	Empty			-		<u>C</u>	T	NG	NO	[ES	<u>}</u>		
							FROM	то	SIZE		R	EMARK	s 		
						\dashv									
		<u> </u>				_	TYPE S	S /		LING	<u>3 N</u>	<u>0 T I</u>	<u> </u>		
		_					SIZE_	w	T. OF HAM	MER		_ DRO	P	we	_
							SMPL.		το	<u> </u>	REGOV.		12"		24"
		·				_		60.0	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	23 70	8"		
							ريد	09.0	00.0	0.5		10			
						7									
						\Box		ļ					\dashv		
\vdash															
						-		1	 					-	
						_]									
						┦,	CP.) I I N I D	14/ A	TED	OBC	<u> </u>	/ ^ =	·1 <u>\</u>	<u></u>
L					· · · · · · · · · · · · · · · · · · ·		שטתו	DUND	WA	I C.K	<u>000</u>	<u>בתי</u>	<u>v A I</u>	<u> 101</u>	<u>C V</u>

DEPTH OF HOLE
DEPTH OF WATER
TIME OF OBSERV.

HOLE NO. WC-117	DATE	PAGE NO. 1 OF 4 PAGES
LOCATION Macy & Vignes St.	JOB NO. 6148-5	_
COLLAR ELEV. 281.2	INSPECTOR_R. Singh	

	GEOLOGIC NOTES							
Depth	Classification and Physical Character							
	0.0 - 0.4 Asphalt-concrete							
	0.4 - 5.0 (GC) Gravel-sand-clay mix-							
	tures, brown clay with							
ļ	little silt, becoming more							
	silty at 5.0%, inorganic,							
	damp							
	5.0 - 6.5 (SM) WC-117-1							
	Silty sand, gray color, in-							
	organic, damp							
	III Empty							
	II Discarded							
	I							
	6.5 - 10.0 (SM) Silty sand, fine, gray,							
<u> </u>	low to no consistency, damp							
	inorganic							
	10.0 - 11.5 (SM) WC-117-2							
	Silty sand as above							
	III Empty							
	II NF							
 	I							
								
ļ	11.5 - 15.0 (SM) Silty sand, gravelly,							
	about 20% gravel, coarse							
	grains are hard, inorganic							
	15.0 - 16.5 (SM) WC-117-3							
	III Empty							
	II Discarded							
	I							
	16.5 - 20.0 (SM-GM) Silty sand gray							
	color becoming gravel-sand-							
	silt mixtures at about 17.51							
<u> </u>	damp, no plasticity,							
	inorganic							

BORING NOTES									
Drilling Method_Rotary Hole Size_5 ¹⁹ Angle_Vertical_Bearing									
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS				
0	1.0	1.0			Tri-cone				
1.0	57.0	57.0			Fish∝tail				

CASING NOTES						
FROM	TO	SIZE	REMARKS			
0	2,5	5"	Surface collar			

<u> </u>	MP	LINO	3 N	<u>0 T</u>	<u>E S</u>		
MPLERWT	Split OF HAMI	ver_1	€ 40 lb	_ DRC) P	3019	
FROM	то	INTERV.	RECOV.	6"	B L	OWS 18"	24"
5.0	6.5	1.5		4	9	16	
10.0		1.5		4	8	12	
L5.0	16.5	1.5		4	9	1.5	
		,					
	5.0 0.0	FROM TO 5.0 6.5	FROM TO INTERV. 5.0 6.5 1.5 0.0 11.5 1.5	FROM TO INTERV. RECOV. 5.0 6.5 1.5 -0.0 11.5 1.5	FROM TO INTERV. RECOV. 6" 5.0 6.5 1.5 4 0.0 11.5 1.5 4	FROM TO INTERV. RECOV. 6" 12" 5.0 6.5 1.5 4 9 0.0 11.5 1.5 4 8	5.0 6.5 1.5 4 9 16 0.0 11.5 1.5 4 8 12

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATE	PAGE NO. 2 OF 4 PAGES
LOCATION Macy & Vignes St.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Singh	

	GEOLOGIC NOTES						
Depth	Classification and Physical Character						
	20.0 - 21.0 (GM) WC-117-4						
,	Gravel-sand-silt mixtures						
	III Empty						
	II Empty						
	I						
	21.0 - 25.0 (SW) Sand with gravel mix-						
	ture becoming more gravelly at 22.0%; sand is coarse,						
L	damp with very little fines.						
	gray						
	·						
	25.0 - 26.1 (SW) WC-117-5						
	Sand, coarse, damp with						
	little fines, gravelly						
	III Empty						
<u> </u>	II Disturbed						
	I						
	26.1 - 30.0 (GW) Gravel with thin sand						
	binders, coarse sand, damp,						
	gray color with some rounded						
	to subrounded pebbles, 1-2						
	inches in size						
	30.0 - 31.5 (SW) WC-117-6						
	Sand, coarse grained, damp with pebbles						
	III Empty						
	II						
	1						
	 						
 	31.5 - 35.0 (SW) Sand, gravelly, medium						
	grained sand with little						
	amount of fines (10-15%)						
 -	damp, inorganic						
 							

<u>.</u>	E	BORI	NG	NO.	TES	
Dri	lling	Meth	od			_
	_	е				
					-1	-
Ang	le			- Bea	ring	_
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS	
_						

CASING				NOTES	
FROM	то	SIZE		REMARKS	

SIZE WT. OF HAMMER					_ DR	P		
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L	OWS	24"
4	20.0	21.0	1.0		15	11)1		
5	25.0	26.1	1.1		6	30	13.	
6	30,0	31.5	1.5		19		103	
						ļ		
							ļ	
						<u> </u>		
						-	+	
	<u> </u>						\vdash	

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-117	DATE3=9=62	PAGE NO. 3 OF 4 PAGES
LOCATION Macy & Vignes St.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLOGIC NOTE'S
Depth	Classification and Physical Character
	35.0 - 36.5 (SW) WC-117-7 Sand, medium grained with little fines III II
	36.5 - 40.0 (SW-GW) Sand becoming more gravelly with layers of cobbles & boulders, river type, hard
	40.0 - 41.0 (GW) WC-117-8 Gravel-cobbles-boulders III No sample I No sample I No sample
	41.0 - 45.0 (GW) Gravel-cobbles-boulders hard interbedded layers
	45.0 - 45.3 (GW) WC-117-9 No sample
	d5.3 - 50.0 (GN-SM) Gravel as above be- coming silty sand at 47.0%, medium sand, with silt mix- ture, damp, very strong pungent odor (organic material?)
	50.0 - 51.5 (SM) WC-117-10 Silty sand, gray, very damp, pungent odor III II
	51.5 - 55.0 (SW) Sand, medium grained, wet, with silty-gravel mixture

	E	ORI	NG	NO.	TES
Hole	e Siz	e			
Ang	le			_ Bea	ring
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS

	С	ASINO	NOTES
FROM	то	SIZE	REMARKS
		 	

SIZE	w	T. OF HAMI	MER		DR	Р		
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	BLC	18"	24
-7	35.0	36.5	1.5		20	55	91	
8	40.0	41.0	1.0		52	100		
9	45.0	45.3	0.3		50 - 511	No	sami	nle
10	50.0	51.5	1.5	<u></u>	12	27	51	
								: [

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-117	DATE 3-9-62	PAGE NO. 4 OF 4 PAGES
LOCATION Macy & Vignes St.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Singh	

Depth	Classificat	tion and Physical Character
	55.0 = 56.5	(SW) WC-117-11
	1	Sand with silt-gravel mix-
		ture, very damp
		TIT
		II
		I
	56.5 - 60.0	(SW) Sand, medium grained
		with thin layers of gravel,
		damp, gray color, no con-
		sistency
	60.0 - 60.9	(SW) WC-117-12
		Sand as above
		III Empty
		II Discarded
		I
	60.9 - 66.0	(SW-SM) Sand, coarse with
		gravel mixture, damp, be-
		coming silty sand at 63.0%,
	***	dark gray color, at 66.0
		(ML-formation) very fine
		clayey silt, inorganic, gramicaceous, slight plasticit
	66.0 67.0	(ML?) WC-117-13
	100.0 = 01.0	Clayey silt, inorganic,
	<u> </u>	grayish to green color,
		damp
		III Discarded
		II
	 	I
	1	
		
		

BORING NOTES							
Drilling Method							
Hole	e Siz	е					
Ang	le			_ Bea	ring		
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS		
l:							

CASING			NG	NOTES	
FROM	τo	SIZE		REMARKS	

	SAMPLING NOTES							
ž .	MPLER.	T. OF HAM	MER		_ DR			
SMPL. NO.	FROM	то	INTERV.		6"	BLC)WS	24"
11	55.0	56.5	1.5		16	$\overline{}$	87	
		60.0	0.9		50	100		
		67.0	1.0		18	76		
	<u> </u>	<u> </u>						

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-118	DATE	PAGE NO. 1 OF 4 PAGES
LOCATION Macy & Lyon St.	JOB NO. 6148-5	_
COLLAR ELEV. 281.9	INSPECTOR R. Singh	

Depth	Classification and Physical Character
	0.0 - 0.4 Asphalt - concrete
	0,0
	0.4 - 5.0 (GC) Gravel-sand-clay mix-
	tures, brown clay with
	little silt, damp, becoming
	more silty at 5.0°
	5.0 - 6.5 (SM) WC-118-1
	Silty sand, grayish-light
	brown, medium grained
	III Empty
	II Disturbed
	I
	6,5 - 10,0 (SM) Silty sand, medium
	grained, light brown to
	grayish, damp, inorganic,
	low consistency becoming
	coarse gravelly sand (SW)
	10.01
	10.0 - 11.5 (SW) WC-118-2
	Sand, coarse, gravelly
	very damp, inorganic
	III Empty
	II Disturbed
	I Disturbed
- -	1 213041004
	11.5 - 15.0 (SW) Sand, coarse grained
	with gravel mixture, very
	damp
	Comp
	15.0 - 16.5 (SW) WC-118-3
	Sand as above becoming mor
	gravelly at 16.5
	III Empty
	II Disturbed
	I

	В	ORI	NG	N O	TES		
Drilling Method_Rotary Hole Size_5" Angle_Vertical_Bearing							
FROM	то	-	REGOV.	%	REMARKS		
0	15.0	15.0			Fish-tail		
15.0	50.0	35.0			Tri-cone		
50.0	67 D	17.0			Fish-tail		
L							

CASING NOTES						
FROM	TO	SIZE	REMARKS			
0	2.5	5"	Surface collar			

SAMPLING NOTES								
TYPE SAMPLER Split-tube. SIZE 2" WT. OF HAMMER 140 16 DROP 30"								
FROM	то	INTERV.	RECOV.	6"	B L (18"	24"	
5.0	6.5	1.5		1	3	6		
10.0	11.5	1.5		7	17	29		
15.0	16.5	1.5		17	35	54		
						r —		
	FROM 5.0 10.0	FROM TO 5.0 6.5	State	No. No.	Solitation	Solitation	No. No.	

GROUND WATER	OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-118	DATE	PAGE NO. 2 OF 4 PAGES
LOCATION Macy & Lyon St.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Singh	

GEOLOGIC NOTES						
Depth	Classification and Physical Character					
	16.5 - 20.0 (SW-GW) Sand, coarse grained					
	with gravel, about 50%, 1-					
	inch size gravel, rounded &					
	subrounded, very strong pun					
	gent odor					
	(71) 10 717					
	20.0 - 20.6 (SW) WC-117-4					
	Sand, coarse grained, light brown color, some organic(?)					
	material, pungent odor					
	III Empty					
	II Empty					
	I Disturbed					
	20 6 25 0 (CW) Created good bindows					
	20.6 - 25.0 (GW) Gravel-sand binders, coarse sand; grayish, some					
	organic material (?). very					
	strong pungent odor, damp					
	, and the second					
	25.0 - 26.0 (GW) WC-118-5					
	Same as above					
	III Empty					
	II Disturbed I Disturbed					
	I Disturbed					
	OC O 20 O (St) Sand assure gratual					
	26.0 - 30.0 (SW) Sand, coarse grained,					
	very damp, strong pungent odor, gray with small amount					
	of silt					
	01 0110					
	30.0 - 31.5 (SW) WC-118-6					
	Sand, coarse grained, damp,					
	gray color					
	III Empty					
	II					
	I					

	BORING NOTES					
Drilling Method						
Ang	le			_ Bea	ring	
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS	

	С	ASII	NG NOTES
FROM	то	SIZE	REMARKS
1		1 1	

31 Z E	w1	T. OF HAMI	MER		_ DRC			
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L 12"	0WS	24"
L	20.0	20.6	0.5		50			
			1.0		17	57		
6	30.0	31.5	1.5		10	25	46	
_								
	_						<u> </u>	
							<u> </u>	

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-118	DATE	PAGE NO. 3 OF 4 PAGES
LOCATION Macy & Lyon St.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Singh	

	GEOLO	GIC NOTES
Depth	Classificat	ion and Physical Character
	31.5 - 35.0	(GW-SW) Gravel, coarse with sand, very damp, sand is
		sand, very damp, sand is medium grained, grayish
		color
		(
<u> </u>	35.0 - 36.4	(SW) WC-118-7
	<u> </u>	Sand as above
		III Empty
		II Disturbed
	<u> </u>	
	36.4 - 40.0	(SW) Sand-gravel mixture,
		wet, pungent odor, grayish
	<u> </u>	color
	100 17 5	(CII) 11C 270 0
ļ	40.0 - 41.5	(SW) WC-118-8
		Sand-gravel mixture III Empty
<u> </u>		II Disturbed
		I Disturbed
		I Dioughed
	41.5 - 45.0	(GW) Gravel with thin sand
		binders, some cobbles and
		boulders
ļļ	150 150	LIC 330 O
	45.0 - 45.0	
		No sample
	45.0 - 50.0	(GW-SW-ML) Gravel with sand
		mixture, coarse grained, be-
		coming clayey silt (ML?),
		dark gray, micaceous at
		50.01, inorganic, stiff, low
		consistency, damp
	50.0 - 51.5	(ML) WC-118-10
		Clayey silt, stiff, damp
		III
 	ļ	II
		I

		ORI	NG	NO.	TES		
Drilling Method							
Angle Bearing Bearing							
FROM	то	INTERV.	RECOV.	RECOV.	REMARKS		
	*						

	C	ASI	NG	NOTES	
FROM	ΤO	SIZE		REMARKS	
		<u> </u>			
1		1			

	w1	. OF HAMI	MER		_ DRC) P		
SMPL. NO.	FROM	TO	INTERV.	RECOV.	6"	12"	OWS	2 4"
7	35.5	36.4	1.4		28	67	88 16"	
8	40.0	41.5	1.5		17	36	57	
9	45.0	45.0	0		25/-	Rei	usa	1
1.0	50.0	51.5	_1.5		- 7			
							-	

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-118	DATE3-12-62	PAGE NO. 4 OF 4 PAGES
LOCATION Macy & Lyon St.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Singh	

		GIC NOTES
Depth	Classificat	ion and Physical Character
	51.5 - 55.0	(ML) Clayey silt, thin,
		gravelly layers, damp, gray-
		ish green, micaceous, stiff
		inorganic, low to slight
		plasticity
	<u> </u>	(ML) WC-118-11
	22.0 - 20.2	
		III III
	 	I
	56.5 - 61.0	(ML) Clayey silt, thin sand
		binders, sand is coarse,
	T	about 50% sand becoming more
		silty, damp, inorganic
	61.0 - 62.5	(ML) WC-118-12
		Clayey silt, grayish-green
		III
		II
		I
	62.5 = 67.0	(ML) Clayey silt, grayish-
		green color, damp, slight
		consistency, stiff, inor-
		ganic
	67.0 - 68.4	
		Clayey silt, as above
	ļ	III
		II
		I
	·	

	BORING NOTES							
	Drilling Method							
					ring			
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS			
		<u> </u>						
		<u> </u>						
		 						

CASING				NOTES	
FROM	TO	SIZE		REMARKS	

	W1	OF HAM	MER		_ DRC			
SMPL. NO.	FROM	то	INTÉRV.	RECOV.	6"	BL(18"	24
11	55.0	56.5	1.5		19	37	57	
12	61.0	62.5	1.5		17		80	
13	67.0	68.4	1.4		10	35	70 76"	

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-119	DATE3-15-62	PAGE NO. 1 OF 5 PAGES
LOCATION 719 Macy Street	JOB NO. 6148-5	
CALLIXANIXENXENX GL ELEV 280.001	INSPECTOR R. Scott	

GEOLOGIC NOTES						
Depth	Classification and Physical Character					
	0.0 - 1.0 Pavement					
	1.0 = 5.0 (SM) Sand-silt mixture, brown color, damp					
	5.0 ~ 6.5 (SM) WC-119-1					
	Sand-silt mixture, dark brown color, pyritic, damp II ok					
	I ok					
	6.5 - 10.0 (SP) Fine clean sand with infrequent coarse sand, dark brown, clean, pyritic, loose					
	10.0 = 11.5 (SM) WC=119=2 Sand=silt mixture with					
	clayey streaks; 65% silt, brown to orange-brown color, damp					
	III Empty II ok I ok					
	11.5 - 12.0 (SM) Same as above					
	12.0 - 15.0 (GP) Sand-gravel mixture; mostly sand; grading to fine clean sand, loose					
	15.0 - 16.5 (SP) WC-119-3 Poorly graded, fine sand:					
	clean, damp, micaceous, py- ritic, 10% coarse sand;					
	angular to subangular, loose grains III ok					
	II ok I ok					

	8	ORI	N Ġ	NO.	TES			
Drilling Method_Rotary Hole Size5** Angle Vertical Bearing								
FROM	то		REGOV.	%	REMARKS			
0.0	51.5	51.5			Tri-cone			
51.5	71.5	20.0			Fish-tail			
					ť			

	С	ASI	NG NOTES
FROM	Т0	SIZE	REMARKS
0		511	Surface

TYPE SA	MPLER.	oplit of hami	Tube	0 1b	_ DR(DP	30 ¹⁹ .	
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	12"	IS"	24"
1	5.0	6.5	1.5	0.7	2	1	8	
. 2	10.0	11.5	1.5	0.7	3	6	9	
3	15.0	16.5	1.5	1.5	10	27	W	
							*	
~				<u> </u>				

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	,
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-3.19	DATE3-15-62	PAGE NO. 2 OF 5 PAGES
LOCATION 719 Macy Street	JOB NO. 6148-5	_
CARTXWEXXENTER GT ETEA 580.00;	INSPECTOR R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	16.5 - 20.0 (SP) Same as above with one fine gravel stringer
	20.0 - 21.5 (SP) (SW) WC-119-4 Poorly-graded, clean sand;
	orange-brown color, grading to well-graded sand; damp.
	micaceous, loose; angular to subangular grains
	III ok II ok
	I ok 21.5 - 23.0 (SW) Same as above
	23.0 - 25.0 (SW) Same as above with a
	5" coarse gravel stringer; compacted-hard
	25.0 - 26.5 (CW) WC-119-5 Well graded sand and gravel; gray, damp, micaceous, com-
	pacted; ≈ 20% fine gravel III ok
	II ok I ok
	26.5 - 30.0 (GW) Same as above, well compacted
	30.0 - 30.8 (GW) WC-119-6 Well graded gravel-sand mix-
	ture, gray color, compacted, petroliferous odor, oil sand
	loose with oil between grains III Empty
	III Empty II ok
	I OK

-	8	ORI	NG	NO.	ΓES
Hole	lling e Siz	Meth e_5"	od_R	otary	
Ang	16	<u> </u>	a	- pea	ring
FROM	то	INTERV.	REGOV.	R E COV.	REMARKS
,					

SAMPLING NOTES TYPE SAMPLER Split Tube SIZE 211 WT. OF HAMMER 110 1b DROP 3011								
SMPL. NO.	FROM	TO	INTERV.	REGOV.		BLC	W\$;	24"
4	20.0	21.5	1.5	1.5	13	34	61	
5			1.5		22	46	75	
6	30.0	30.8	0.8	0.3	39	61/9"		
			3					
_								

CASING NOTES

REMARKS

FROM

GROUND WA	TER	OBSE	RVATIO	ONS
DEPTH OF HOLE				
DEPTH OF WATER				
TIME OF OBSERV.				

Н	0	L	Ε	NO.	WC-119
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DATE 3-15-62 PAGE NO. 3 OF 5 PAGES

LOCATION 719 Macy Street

JOB NO. 6148-5

GOVERNMENTE GT ETEA 580'001

INSPECTOR_R. Scott

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	30.8 - 32.0 (GW) Gravel and sandy silt.
	gray-blue, micaceous, damp,
	medium density, grading into
	gray, gravel-sand-silt mix-
	ture at 35.5'; igneous
	origin
	35.0 - 35.8 (GM) WC-119-7
	Gravel-sand-silt mixture,
	white to gray, damp, well
	compacted angular to sub-
.,	angular grains
	III ok
	II ok
	I ok
	35.8 - 40.0 (GM) Same as above
	40.0 - 40.2 (GM) WC-119-8
	Compacted coarse gravel-
<u> </u>	sand-silt mixture, gray
	(no recovery of sample)
	40.2 - 41.0 (GM) Same as above
	to.2 = ti.0 (dri) baine as above
 -	41.0 - 45.0 Cobbles and sand; well com-
	pacted, gray, damp
	45.0 - 46.5 (GP) WC-119-9
	Poorly graded gravel-sand
	mixture; gray, micaceous,
	damp, pyritic; gravel 2"
	diam subrounded: fine to
	coarse sand, clean, well
	compacted
	III NF
	II ok
	I ok
	46.5 - 48.5 (GP) Same as above

	8	ORI	NĠ	NO.	TES
			o dR	otary	
Hole	B Siz	e_5"	a T		
Ang	lee_	21 010	3.L	_ Bea	ring
FROM	то	INTERV.	REGOV.	% R E GOV.	REMARKS
					-
			-		
					,

	C	ASI	NG NOTES	
FROM	TO	SIZE	REMARKS	
			2.	

SMPL.						BL	OWS ;	
SMPL. NO.	FROM	то	INTÉRV.	REGOV.	6"	12"	18"	24
7	35.0	36.5	1.5	1,5	9	39	70	
8	40.0	70.0	0	0	211	*		NF
9	45.0	46.5	1.5	0.7	26	49	65	
	 				-	ļ	 	\vdash

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-119	DATE3-15-62	PAGE NO. 4 OF 5 PAGES
LOCATION 719 Macy Street	JOB NO. 6148-5	<u> </u>
GL ELEV 280.00	INSPECTOR_R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	48.5 - 50.0 (GP) Poorly graded gravel- sand mixture; grading to
	greenish-gray silt, damp, sandy, no consistency
	50.0 - 51.5 (ML) WC-119-10
1	Greenish-gray silt, with in- frequent fine, gray, clean ½" to 1" sand stringers;
	micaceous; silt is a little clayey
· · · · · · · · · · · · · · · · · · ·	51.5 - 55.0 (ML) Slightly sandy, green- ish-gray silt; damp, medium consistency; some clayey
	silt zones
	55.0 - 56.5 (ML) WC-119-11 Same as above III ok II ok
	I ok
	56.5 - 60.0 (ML) Sandy silt, greenish- gray, micaceous, damp, clayey, no consistency, some weathered quartz grains?
	60.0 - 61.5 (ML) WC-119-12 Same as above with occasion- al fine, gray, sand strati-
	fications, also some small black inclusions of black silt.
	III ok II ok I ok
	61.5 - 63.0 (ML) Same as above with some hard streaks.

·								
BORING NOTES								
Drilling Method Rotary								
	-	e5						
				Reg	ring			
~!!Y			7	- 500				
FROM	то	INTERV.	REGOV.	R E GOV.	REMARKS			
					-			

	С	ASII	NG NOTES
FROM	TO	SIZE	REMARKS

TYPE SA	MPLER.	Oplia COF HAM	Tube	9 O 1b	_ DR(DP_3	10.11	_
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	B L (IB"	2
10	50.0	51.5	1.5	1.2	11	24	47	
11	55.0	56.5	1.5	1.5	6	20	31	
12	60.0	61.5	1.5	1.5	8	2]	37	
			,				,	

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

	ON 719 Macy Street JOB NO. 6148-						
	INSPECTOR						
GEOLOGIC NOTES							
Depth	Classification and Physical Character						
	63.0 - 65.0 (ML) Same as above						
	65.0 - 66.5 WC-119-13						
	Sandy silt, greenish-gray,						
	micaceous, damp, clayey wit						
	a few brown plant roots,						
<u>-</u>	medium to stiff consistency						
	III ok						
	II ok						
	I ok						
·	66.5 - 70.0 (ML) Same as above						
	70.0 - 71.5 (ML & SP) WC-119-14						
	Same as above, grading to						
	fine, greenish-gray sand at						
	70.51, which is micaceous						
	damp and loose.						
	III ok						
	II ok						
	I ok						
 	71.5 T.D.						
							

Scot	t		_					
	В	ORI	NĠ	NO.	TES			
Drilling Method_Rotary Hole Size_5" Angle_VerticalBearing								
FROM	TO	INTERV.	REGOV.	% REGOV.	R'EMARKS			
			<u> </u>					

PAGE NO. 5 OF 5 PAGES

	C	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
					•

TYPE &	SAMPLING NOTES							
			_ DRO)P				
SMPL. NO.	FROM	TO	INTERV.	REGOV.	8"	8L0	18"	24"
13	65.0			1.5			25	
14	70.0	71.5	1.5	1.5	9	32	76	
					-			

GROUND WA	TER	OBSERVA	TIONS
DEPTH OF HOLE			
DEPTH OF WATER			
TIME OF OBSERV.			

HOLE NO. WC-120	DATE3-14-62	PAGE NO. 1 OF 5 PAGE
LOCATION <u>West Side L. A. River</u>	JOB NO. 6148-5	-
COLLAR ELEV. 279.1	INSPECTOR R. Scott	

Depth	Classificati	ion and Physical Character
	0.0 - 3.0	Silt-Samd-Gravel & Brick
		(27) G.R.
	3.0 - 5.0	(ML) Silt
	50-65	(GM) WC-120-1
	J. U	Fine gravel-sand-silt mix-
		ture, gray, damp, 70% gra-
		vel-sand, 30% silt
		III Empty
	·	IT OK
		I OK
	(T 70.0	(CM) Same as always
	0.5 - 10.0	(GM) Same as above
	 	Grading into fine to med- ium sand, clean, micaceous
		wet, loose
		Wel, LOOSE
	10.0 - 11.5	(SP) WC-120-2
		Well graded fine to medium
		sand, clean, micaceous &
	<u> </u>	wet, angular to subangular
		III Empty
		II OK
		I UK
	17 5 - 15 0	(GP) Gravel-sand-mixture,
	11.07 - 19.0	
	<u> </u>	loose, maximum size l"
	15.0 - 16.5	(SP) WC-120-3
		Medium to coarse sand,
		loose, infrequent fine gra-
		vel, damp
	<u> </u>	III Empty
	<u> </u>	II Empty
		I OK
	16.5 - 17.5	(SP) Poorly graded sand,
	1	coarse
	 	

	В	ORI	NG	NO.	TES				
	Drilling Method <u>Rotary</u> Hole Size <u>5"</u>								
Ang	le <u>Ve</u>	rtica	1	_ Bea	ring				
FROM	то	INTERV.	RECOV.	% RECOV.	REMARKS				
0.0	50.0				Tri-cone				
-		·							
									

	С	ASI	NG	NOTES	
FROM	TO	SIZE		REMARKS	
0.0	لا 0	511			
U ₀ U	11. U	_ _5"			

	SAMPLING NOTES							
TYPE SE	type sampler Split-tube size 21 wt. of hammer 140 lb drop 3011							
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	BL0	18"	24"
ı	5.0	6, 5	1.5	1.5	3	10	19	
2	10.0	11.5	1.5	0.8	9	21	31,	
3	15.0	16.5	1.5	0.3	6	18		

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-120	DATE	PAGE NO. 2 OF 5 PAGE
LOCATION West Side L. A. River	JOB NO. 61/18-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	17.5 - 20.0 (GW) Interbedded sand & gravel becoming more compacted with depth
	20.0 - 21.3 No recovery, driven to re- fusal, some gravel 2" di- ameter
	21.3 - 23.0 (GC) Gravel-sand-silt-clay mixture, very hard becom- ing medium to fine sand at 25°
	23.0 - 25.0 (GC) Clayey gravel, less dense than above
	25.0 - 26.5 (SM) WC-120-5 Fine sand-silt mixture, micaceous, damp, silt is gray color, 50% sand is orange-brown, 50% sand is pyritic
	26.5 - 30.0 (GP) Sand-gravel mixture, loose
	30.0 - 31.5 (GM) WC-120-6 Gravel-sand-silt mixture grading to gray sand-silt mixture, damp, pyritic III Empty II OK I OK
	31.5 - 35.0 (GM) Same as above but chiefly sand with some gravel

	BORING NOTES							
Dri	Drilling Method_Rotary							
	e Siz							
				Rea	ring			
Tily	10			- 564	''''y			
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS			
					T ri-c one			

	С	ASI	NG	NOTES	
FROM	ΤO	SIZE		REMARKS	
			<u> </u>		

	SAMPLING NOTES								
TYPE SA	TYPE SAMPLER Split tube SIZE 2 WT. OF HAMMER 140 lb DROP 30"								
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	B L (WS	24"	
4	20.0	21. 3	1.3	0.0	12	33	6 59		
5	25.0	26.5	1.5	1.5	8	18	30		
6	30.0	31.5	1.5	0.2	5	9	15		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-120	DATE 3-14-62	PAGE NO. 3 OF 5 PAGES
LOCATION West Side L. A. River	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTES							
Depth	Classification and Physical Character							
	35.0 - 36.5 (GM) WC-120-7							
	Gravel-sand-silt mixture,							
	gray, igneous origin, wet,							
	30% gravel, 40% sand, 30%							
ļ ļ	silt, maximum gravel size							
ļ	l", sand is angular to sub-							
	angular, loose form							
	III Empty							
	II OK							
ļ	I OK							
								
	36.5 - 40.0 Cobbles and sand, gray							
<u> </u>	color, igneous origin 75%							
	cobbles, damp							
	10000							
	40.0 - 41.5 WC-120-8							
 	Cobbles-gravel-sand mixture							
	gray, hard drilling							
h	III Empty							
 	II Disturbed							
	I OK							
	41.5 - 45.0 Same as above							
	41.) - 4).0 Dane ab above							
	15.0 - 15.5 (GW) WC-120-9							
	Well graded gravel-sand							
	mixture, gray, wet, angular							
	to subangular grains, well							
	compacted, 20% subrounded							
	gravel.							
	III No recovery							
	II No recovery							
	I OK - disturbed							
	45.5 - 46.5 Granite boulder, very hard							
 _	drilling							
								
	46.5 - 49.0 Cobbles - sand-silt mixture							
 	gray, wet, compacted							
LL_								

	BORING NOTES							
	Drilling Method Rotary							
	Hole Size_ <u>5"</u> Angle_ <u>Vertical</u> Bearing							
FROM	то	INTERV.	REGOV.	% REGOV.	REMARKS			
					Rotary			

	C	ASIN	IG NOTES
FROM	то	SIZE	REMARKS
			Surface

SAMPLING NOTES TYPE SAMPLER Split-tube BIZE 2 WT. OF HAMMER 140 1b DROP 30 M								
SMPL. FROM TO INTERV. RECOV.								
7	35.0	36.5	1.5	0.8	19	44	72	-
8	40°0	41 5	1.5	0.4	23	53	85	
9	45.0	45.5	0.5	0, 3	40			
								

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO	DATE 3-14-62	PAGE NO. 4 OF 5 PAGES
LOCATION West Side L.A. River	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Scott	

	GEOLOGIC NOTES					
Depth	Classification and Physical Character					
	50.0 - 51.5 (ML) WC-120-10					
	Intermixed, inorganic sandy					
	silt; brown and green with					
	black-brown, more sandy mi-					
	caceous silt layers with an					
	apparent dip of 25°					
	51.5 - 55.0 (ML) Same as above					
	55.0 - 55.5 (SM & ML) WC-120-11					
	Thin interbedded green,					
	sandy silt & fine brown					
	sand; damp, with slight dip					
	III Empty					
	II Disturbed					
	I OK					
	55.5 - 60.0 (ML & SP) Dark brown to					
	greenish-brown, sandy silt; micaceous, with occasional					
	fine gray sand stringers,					
	damp, no consistency					
	60.0 - 61.0 (ML & SP)					
	Same as above					
	III OK					
	II OK					
	I OK					
	61.0 - 63.0 Same as above					
	63.0 - 65.0 (ML) Dark brownish-green					
	silt, little clayey, mica-					
	ceous, dense, earthy odor					
	65.0 - 66.0 (ML) WC-120-13					
	Same as above					
	III Disturbed					
	II OK					
	I OK					

BORING NOTES Drilling Method Rotary Hole Size 5"							
AngleBearing							
FROM	TO INTERV. RECOV. REGOV. REMARKS						
0.0	50.0	50.0			Tri-cone		
	71.0				Fish-tail		

	С	ASI	NG NOTES	
FROM	TO	SIZE	REMARKS	
			·	

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER Split-tube SIZE WT. OF HAMMER 140 1b DROP 3011							
SMPL. No.	PL. FROM TO INTERV. RECOV. 6" 12" 18"			24"				
10	50.0	51.2	1.2	1.0	18	.43	58 14	
11		55.5	0.5	0.6	50			
12	60.0	61.0	1.0	1.0	20	60		
13	65.0	66.0	1.0	1.0	15	58		
-								
· 								

GROUND WAT	ER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

LOCATIO	OWC-120 ONWest Side L.A. River ELEV	JOB NO. 6148-	5	PAGE NO	5 OF 5 PAGES
	GEOLOGIC NOT	ES		BORINĞ	NOTES
Depth	Classification and Phy	sical Character	1 1	g Method <u>R</u> ize <u> </u>	
	66 0 - 70 0 (ML) Brownis	sh-green mica-	Angla	Vertical	Pogring

	GEOLOGIC NOTES] [E	ORI	NĞ	NO.	TES		
Depth	Classification and Physical Character		lling le Siz			Rotar	У		
	66.0 - 70.0 (ML) Brownish-green, mica-	4 7				_ Bea	ring_		
	ceous silt, damp	FROM	то	INTERV.	REGOV.	% REGOV.	P	REMARKS	
	70.0 - 71.0 (ML) WC-120-14 Same as above III Empty								
	II OK								
	TD 71.01								
	Note: Noticed first water at 30 ft.	1						-	
	Not much volume.							<u></u>	
					·				
			С	ASI	NG	NOT	ΓES		
		FROM	то	SIZE		R	EMARKS		
		TYPE S	S A	MP Spli	LIN(t-tub	3 N e 40 1b	OTE	S	
		SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	BLOWS	24"
		14	70.0	71.0	1.0	0.8	16 6	50	
					·				
								-	
			·						<u> </u>
			OF HOLE		TER	OBS	ERV	ATIO	NS

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-121	DATE 3-16-62	PAGE NO. 1 OF 1 PAGES
LOCATION _ East Side of L.A. River	JOB NO. 6148-5	-
COLLAR ELEV. 227.9	INSPECTOR R. Scott	

OLLAR	ELEV	9 INSPECTORE	٠. ٢
	GEOLO	GIC NOTES	
Depth	Classificat	ion and Physical Character	1
	0.0 - 5.0	(GM) Fine gravel-sand-silt	۱,
		mixture; brown color	\vdash
			FF
	5.0 - 6.5	(SW) WC-121-1	-
	<u> </u>	Well graded, clean sand;	
		tan color, few gravel	45
	<u></u>	grains	L
		III NR	
		II NR	
		I OK	\vdash
			-
	6.5 - 10.0	Cobbles-gravel-sand	-
	<u></u>	mixture, subangular grains,	
		igneous origin - slow	
		drilling	
			
	10.0 - 11.5	(GW) WC-121-2	Γ
		Gravel-sand mixture;	-
		$1\frac{1}{2}$ " - $2\frac{1}{2}$ " coarse gravel	H
		with well graded sand	-
	<u> </u>	III NR	<u></u>
		II NR	Ď
		I OK (Sand & Gravel)	7,
	11 5 - 15 0	(GW) Sand-gravel mixture,	SI
	1 -100	light brown color; mostly	s
	†	fine sand	L
			L
	15.0 - 16.5	(SP) WC-121-3	
		Poorly graded fine sand.	
		with 15% coarse sand and	L
		gravel: loose, damp	L
		III NF	
		II Disturbed	
		I OK	
			-
	16.5 - 20.0	(SP) Same as above	[
		with thin gravel layers at	DE
		17' & 18.5'	DE
			TI

	BORING NOTES					
Dri	lling	Meth	o d	Rotar	.λ.	
Hole	e Siz	e <u></u> 5	tt	···		
Ang	le_V	<u>ertic</u>	al	_ Bea	ring	
FROM	то	INTERV.	REGOV.	% R E GOV.	REMARKS	
0.0	45.0				Tri-cone	
45.0	69.8				Fish-tail	
·						
					<u> </u>	
<u> </u>			L			

	C	ASI	NG	NOTES	
FROM	то	SIZE		REMARKS	
		<u> </u>			

	SAMPLING NOTES							
TYPE SA	TYPE SAMPLER Split-tube SIZE 21 WT. OF HAMMER 110 1b DROP 3011							
SMPL. NO.	FROM	то	INTERV.	REGOV.	6"	8 L (18"	24"
1	5.0	6.5	1.5	0.2	3	8	13	
2	10.0	11.5	1.5	0.2	9	16	21	
3	15.0	16.5	1.5	0.6	10	11.	17	
						ļ		

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-121	DATE3-16-62	PAGE NO. 2 OF 4 PAGES
LOCATION East Side of L. A.	RiverJOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR R. Scott	'

1	GEOLOGIC NOTES
	J GEOLOGIC NOTES
Depth	Classification and Physical Character
	20.0 - 21.5 (SW) WC-121-4
	Gravelly fine sand; gray
	to brown color, 25% fine
	gravel; 55% fine clean
	sand, pyritic, loose,
	damo
	III NF
	II OK disturbed
	I OK disturbed
	21.5 - 22.0 (SW) Same as above
	TAREN (SII) SOUR ON OUT
	22.0 - 23.0 (GW) Gravel-sand mixture,
	light brown
	12gv 02 0w
	23.0 - 25.0 (GW) Gravel-sand mixture:
-	loose
	05 0 06 5 (07) 177 701 5
	25.0 - 26.5 (GP) WC-121-5
	Gravel-sand mixture; tan
	to brown, damp, loose
	20% gravel
	III NR
	II OK
 	I OK
	26.5 - 30.5 (GP) Same as above
	with thin gravelly layers,
	color changing to gray
	1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	30.0 - 31.5 (GP) WC-121-6
	Coarse gravel-sand mixture,
	gray color, 70% medium
	sand; 20% gravel up to
	1½" in diameter; 10% coarse
	sand, clean, micaceous,
	damp, compacted
	III OK
	II OK
L	I OK

	BORING NOTES						
Hole	Drilling MethodRotary Hole Size5" AngleVertical Bearing						
FROM	то	INTERV.	REGOV.	%	REMARKS		
	-v						
					(

	С	ASI	NG	NOTES	
FROM	то _,	SIZE		REMARKS	
					-

	SAMPLING NOTES TYPE SAMPLER Split-tube							
SIZE_	MPLER_	OF HAMI	MER 1	0 1b	_ DR	op_3(יייַכ	
SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	8 L C	18"	24"
4	20.0	21.5	1.5	0.8	4	8	11	
5	25.0	26.5	1.5	0.8	11	24	37	
6	30.0	31.5	1.5	1.2	22	60		
			-					
	· ········							
							·	

GROUND WAT	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-121	DATE3-16-62	PAGE NO. 3 OF 1 PAGES
LOCATION _ East Side of L.A. River	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR_R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	31.5 - 35.0 (GP) Same as above
	with some cobbles
	35.0 - 35.2 (GP) WC-121-7
	Same as above
	No recovery
	35.2 - 40.0 Cobbles-gravel-sand
	mixture; well compacted
	(hard drilling)
	10.0 - 11.5 (GM) WC-121-8
	Gravel-sand-silt mixture;
	gray, damp; 50% coarse
	gravel, subangular; 30%
	sand, 15% dark gray silt;
	well compacted
`	III NF
	II OK
	I OK
	41.5 - 45.0 (ML) Greenish-gray,
	inorganic silt, with ½
	thick brown-gray, fine,
*	micaceous sand stringers;
	dipping at 60°, damp, stiff
	consistency, stringers are
	1" to la" apart
	45.0 - 46.5 (ML) WC-121-9
	· Same as above
	III NF
	II OK
	I OK
· · · · · · · · · · · · · · · · · · ·	46.5 - 50.0 (ML) Grayish-green silt
	with thin brown sandy silt
	stringers dipping at
	approximately 60°, damp,
·	stiff consistency

<u></u>	B	ORI	NĞ	NO.	TES
Dri	llina	Meth	o d	Rota	ary
	•	e			
				Bog	ring
Ally	16		9.1	- Deu	rilig
FROM	то	INTERV.	REGOV.	% RECOV.	REMARKS

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS

SAMPLING NOTES TYPE SAMPLER Split-tube								
SIZE_	218 W.T	OF HAMI	MER_1)	0 lb	_ DRC	p_30	יייכ	
SMPL. No.	FROM	ΤO	INTERV.	REGOV.	6"	B L (WS	24"
7	35.0	35.2	0.2	0	22 3"			
8	40.0	41.0	1.0	0.8	בע	80		
9	45.0	46.1	1.1	0.8	13	55	653"	
								_

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-121	DATE3-16-62	PAGE	NO. 4	OF_	4	PAGES
LOCATION <u>East Side of L.A. River</u>	JOB NO. 6148-5	_				
COLLAR ELEV.	INSPECTOR R. Scott					

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	50.0 - 51.5 (ML) WC-121-10
	Same as above
	51.5 - 55.0 (ML) Same as above
	55.0 - 55.8 (ML) WC-121-11
	Same as above
	III NF
	II OK
	I OK
	55.8 - 60.0 (ML) Same as above
	with some brown fine sand
	(0.0. (0.0. (0.0. 1
	60,0 - 60,9 (ML) WC-121-12
	Grayish-green, micaceous
	silt with inclusions of
	fine, tan to brown sand
	and silt (20% of mass)
	micaceous, clean, loose; damp, dense silt, no
	consistency
	Consistency
	60.9 - 65.0 (ML) Same as above
	65.0 - 65.9 (ML) WC-121-13
	Same as above
	III NF
	II OK
	I OK
	٠.
	65.9 - 69.0 (ML) Same as above
	69.0 - 69.8 (ML) WC-121-14
	Same as above with
	petroliferous odor in the
	fine, brown sand inclusions
	III NF
	II OK
LL_L	I OK

	BORING NOTES						
Dri	lling	Meth	od_R	otary	7		
	-	e5					
				_ Bea	ring		
FROM	TO .	INTERV.	RECOV.	% RECOV.	R E M ARKS		
,							

	С	ASI	NĠ	NOTES	
FROM	то	SIZE		REMARKS	

SAMPLING NOTES							
MPLER_ it wt	Spli Of Hami	t-tut MER_11	e 10 1b	_ DR	0 P	30 ¹¹	
FROM	то	INTERV.	REGOV.	6"	8 L C	WS	24"
50.0	51.0	1.0	1.0	13	52		
55.0	55.8	0, 8	0.8	29	120		
60.0	60.9	0.9	0.8	30	83 10"		
65.0	65.9	0.9	0.8	30	100 10.5		
69.0	69.8	0.8	0.8	46	100 B,5"		
֡	FROM 50.0 55.0 60.0 65.0	MPLER Spli WT. OF HAMI FROM TO 50. 0 51. 0 55. 0 55. 8 60. 0 60. 9 65. 0 65. 9	MPLER Split—tult WI OF HAMMER 11 FROM TO INTERV. 50.0 51.0 1.0 55.0 55.8 0.8 60.0 60.9 0.9 65.0 65.9 0.9	MPLER Split-tube III WT. OF HAMMER 110 1b FROM TO INTERV. REGOV. 50.0 51.0 1.0 1.0 55.0 55.8 0.8 0.8 60.0 60.9 0.9 0.8 65.0 65.9 0.9 0.8	MPLER Split-tube III WT. OF HAMMER 1/10 1b DR. FROM TO INTERV. REGOV. 6" 50.0 51.0 1.0 1.0 13 55.0 55.8 0.8 0.8 29 60.0 60.9 0.9 0.8 30 65.0 65.9 0.9 0.8 30	MPLER Split	MPLER Split

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-122	DATE3-19-62	PAGE NO. 1 OF 5 PAGES
LOCATION Mission Rd. & Richmond St.	JOB NO. 6148-5	-
COLLAR ELEV. 317.4 (60' off)	INSPECTOR_R. Scott	

	GEOLOGIC NOTES
Depth	Classification and Physical Character
	0.0 - 5.0 (GM) Gravel-sand-silt
	mixture; brown; a rock
	at 4 feet
	5.0 - 6.5 (ML) WC-122-1
	Fine, sandy, brown to
	orange-brown silt, damp.
	no plasticity
	III OK
	II OK
	I OK
	6.5 - 10.0 (ML & SP)
	Fine sandy silt, changing
	to a fine brown sand
	The state of the s
	10.0 - 11.5 (SP) WC-122-2
··	Fine, brown to orange-brown,
	clean, sand; damp, angular
	grains, loose, trace of
	gravel
	III NF
	II OK
	I OK
	1 011
	11.5 - 15.0 (GP & SW)
	Coarse gravel and well
	graded sand; brown
	75 0 76 7 (OD 4 GT) 175 700 0
·	15.0 - 16.1 (GP & SW) WC-122-3
	Coarse gravel, well graded
	sand mixture; orange-brown
······································	color, loose, damp, com-
	pacted, iron oxide stain;
	60% coarse gravel; 40%
	well graded sand
	III NF
	II OK
	I OK
<u>i</u>	

	BORING NOTES						
Drilling Method Rotary Hole Size 5th Angle Vertical Bearing							
FROM	TO	INTERV.	REGOV.	% RECOV.	REMARKS		
0.0	73.0	73.0			Fish-tail		
				_	·		

	CASING NOTES						
FROM	. то	SIZE	REMARKS				
0	3.0	5"	Surface				

· · · · · · · · · · · · · · · · · · ·	S A	MP	LIN	G N	<u>0 T</u>	E S	-		
type sampler Split-tube size 211 wt. of hammer 110 1b drop 3011									
SMPL. NO.	FROM	то	INTERV.	RECOV.	6"	B L (0W5	24"	
1	5. 0	6.5	1.5	1.5	Ъ	12	20		
2	10.0	11.5		0.8	5	11	25		
3	15.0	16, 1	1.1	0.8	23	61	80		

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE	731	
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO. WC-122	DATE	PAGE NO. 2 OF 5 PAGES
LOCATION Mission Rd. & Richmond St. (60' off)	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR R. Scott	

Depth	Classification and Physical Character
	16.1 - 20.0 (GP & SW) Same as above;
	well compacted orange-brown
	loose, damp
	20.0 - 20.9 (GP & SW) WC-122-L
	Same as above (30% gravel
	and a few cobbles)
	III NF
	I OK
	1 00
	20.9 - 25.0 (GP & SW) Same as above
<u> </u>	20.7 - 27.0 (di & bw) bane as above
	25.0 - 25.3 (GP & SW) WC-122-5
	Coarse gravel and well
	graded sand mixture
	(Very well compacted)
	No recovery
	25,3 - 26,0 (GP & SW) Same as above
	26.0 - 30.0 (ML) Inorganic dark-brown
	silt with sand
	30.0 - 31.2 (ML) WC-122-6
	Dark-brown, inorganic,
	micaceous silt; dense, damp,
	changing to black silt at
	31 feet
	III OK
	I OK
	1 UK
	31.2 - 35.0 (ML) Gravish-green silt:
	micaceous with thin, light
	gray, fine sand stringers
	dipping at 60°
	wipping at ot
+	

,	BORING NOTES						
Drilling Method Rotary							
Hole Size 5" Angle Vertical Bearing							
FROM	то	INTERV.	REGOV.	% R E GOV.	REMARKS		
					<u> </u>		
				<u> </u>			

	С	ASI	NĜ	NOTES	
FROM	TO	SIZE		REMARKS	
			1		

	S A	MP	LIN	G N	0 T	ES		
TYPE S	AMPLER_ 211 wi	Spl	<u>it-tu</u> Mer 11	ibe iO lb	DRO	n P	30"	
SMPL.	FROM	то		RECOV.		BLO)WS	
NO.			<u> </u>		6"	12"	18"	24"
4_	20.0	20.9	0.9	0.8	45	9		
5	25.0	25.3	0.3	0	50,			
6	30.0	31.2	1.2	1.0	20	61	100	
,								
L				L	.		L	

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER		
TIME OF OBSERV.		

HOLE NO	DATE3-19 & 20-62	PAGE NO. 3 OF 5 PAGES
LOCATION Mission Rd. & Rich	mond_St.JOB NO. 6148-5	·
	INSPECTOR R. Scott	

COLLAR	ELEV	INSPECTOR.	R.	Scot	tt		_					
,	GEOLO	GIC NOTES			E	BORI	NĠ	NO.	TE	S		
Depth	Classifiçat	tion and Physical Character			_	Meth e		Rotar	y			
	35.0 - 36.0	(ML) WC-122-7		Ang	jle	Verti	cal	_ Bea	ring			_
		Same as above III NF II OK		FROM	то	INTERV.	RECOV.	% R E GOV.		REMA	RKS	
		I OK	\exists			ļ						
	36.0 - 40.0	(ML) Same as above;										
		dense, becoming more dark gray in color										
	40.0 - 41.0	(ML) WC-122-8 Same as above, micaceous,										
	,	dipping at $55-60^{\circ}$; with a $1\frac{1}{2}$ " thick, greenish-gray,										
		piece of siltstone in tip of sampler	- L									
		III NF	\exists r			Λςι	NG	NO 1		<u> </u>		
		I OK		FROM	τo	SIZE	14 0		EMARI			
	41.0 - 45.0	(ML) Same as above					1,					
	45.0 - 46.0	(ML) WC-122-9	- F	TYPE SA	MPIFE	Spl	it-tu	G N				
		Dense, gray-blue, micaceou silt with thin brown sandy	IS	SIZE 🍱	211 W1	. OF HAMI	AER	40 lb		2		_
		streaks dipping at 60°; da		NO.	FROM	το	INTERV.	RECOV.	6"	12"	18"	24"
		III Disturbed	4					0.8		100		•
	<u> </u>	II OK	- ∤⊦					0.8		84		·····
		I OK			1	51.0		0.9	i i	118		
	46.0 - 50.0											
-	<u> </u>	color of grayish-green	-									
	50.0 - 51.0	(ML) WC-122-10										
		Same as above	L									
		III NF II OK	<u> </u>	GRO	UND	WA	TER	OBS	ER	VAT	101	vs.
		I OK	_ [DEPTH	OF HOLI	:						
!!	ì		- 1 [DEPTH	OF WATE	ER						

51.0 - 55.0

(ML) Same as above

TIME OF OBSERV.

HOLE NO. WC-122	DATE	PAGE NO. 4 OF 5 PAGES
LOCATION Mission Rd, & Richmond St. (60° off)	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

Depth	Classification and Physical Character
	55.0 56.0 ML) WC-122-11
	Same as above with thin
	stringers of light gray,
	fine sand
	III Disturbed
	II OK
	I OK
	56.0 - 61.0 (ML) Same as above
	61.0 - 61.9 (ML) WC-122-12
	Greenish-gray, micaceous
	silt, with interbedded fine.
	black, petroliferous sand
	and dark, gray-green silt;
	dense, damp, dipping at 60°
	III NF
	II OK
	I OK
	61.9 - 67.0 (ML) Same as above
	67.0 - 67.9 (ML) WC-122-13
	Greenish-gray, micaceous
	silt interbedded with olive-
	drab colored silt; inclu-
	sions of fine black, petro-
	liferous sand as well as
	some bedding of same
	III OK
	II OK
	I OK
	(5.0. 50.0. (15.) 6
_	67.9 - 72.0 (ML) Same as above;
	drilling, with harder
	streaks

·	BORING NOTES									
Dri	Drilling Method Rotary									
Hole	Hole Size 5"									
	Angle_Vertical Bearing									
Cily				- 504	, , , , , , , , , , , , , , , , , , ,					
FROM	то	INTERV.	RECOV.	% REGOV.	R E M A R K S					
		ļ								
	-		,							
			<u> </u>							

CASING				NOTES		
FROM	то	SIZE	REMARKS			
]				

SAMPLING NOTES										
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 3018										
FROM	TO	INTERV.	RECOV.	6"	B L C	WS '	24"			
55, 0	56, 0	1.0	1.0	30	89					
61.0	61, 9	0, 9	0,8	32	100					
67.0	67.9	0.9	0.9	37						
	FROM 55, 0 61, 0	## WT. OF HAM FROM TO 55, 0 56, 0 61, 0 61, 9	WT. OF HAMMER 13	II WT. OF HAMMER 1/10 1b FROM TO INTERV. RECOV. 55, 0 56, 0 1, 0 1, 0 61, 0 61, 9 0, 9 0, 8	II WT. OF HAMMER 1/10 1b DR FROM TO INTERV. RECOV. 6" 55. 0 56. 0 1. 0 1. 0 30 61. 0 61. 9 0. 9 0. 8 32	WT. OF HAMMER 110 1b DROP	## WT. OF HAMMER 110 1b DROP 3015 FROM TO INTERV. RECOV. 6" 12" 10" 55. 0 56. 0 1. 0 1. 0 30 89 61. 0 61. 9 0. 9 0. 8 32			

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	73'
DEPTH OF WATER	
TIME OF OBSERV.	

	OWC-122 D				PAGI	E NO.	<u>_5</u> ()F_ <u></u>	<u> </u>	РΑ	GE!
COLLAR	N Mission Rd. & Richmond St. J (60' off)	NSPECTOR_R.	Scott	t							
	GEOLOGIC NOTES			E	BORI	NĠ	NO.	TES	<u>-</u>		
Depth	Classification and Physical Character Hole Size 5"										
	72.0 - 73.0 (ML) WC-122-11 Same as above		And] IE	verti	caı	_ Bea	ring.			<u> </u>
	III NF OK II OK		FROM	то	INTERV.	REGOV.	% RECOV.		REMA	RKS	
	I OK										
			·								
				С	ASI	NG	NO 7	E S	3		
			FROM	то	SIZE		Rí	EMARK	S		
			TYPE SA	MPLER.	MP Spl	i t-tu	he				
			SIZE_SMPL. NO.	FROM	TO		10 lb		BLO	011 WS	_
		·			73.0			6" 33	1 2 "	18"	24"

										<u>.</u>	
			GRO	חוווי	WA	TER	ORS	FR	<u>_</u>		N C
			DEPTH	OF HOLE	Ε	73		E 17	VAI	<u> </u>	<u> </u>
	<u> </u>			F OBSER		·					

HOLE NO. WC-123	DATE3-21-62	PAGE NO. 1 OF 1 PAGES
LOCATION 616 Mission Rd.	JOB NO. 6148-5	
COLLAR ELEV. 319.4	INSPECTOR_R. Scott	

Depth	GEOLOGIC NOTES Classification and Physical Character
	0.0 - 3.0 (GM) Gravel, sand-silt
	mixture; mostly sand and
	silt, brown color
	3.0 - 5.0 (ML) Sandy silt, brown,
	damp
	5.0 - 6.5 (ML) WC-123-1
	Slightly sandy silt, brown
	color, damp and fairly
	dense
	III Disturbed
	II Disturbed
	I Disturbed
	6.5 - 8.0 (ML) Same as above
	8.0 - 10.0 (SW) Well graded sand,
	fine grain, tan color
	70.0 77.5 (011) 117.702.0
	10.0 - 11.5 (SW) WC-123-2
	Well graded sand; tan to
	greenish-tan color, well
	compacted with 15% silt changing to medium and fine
	sand, well compacted.
	changing to greenish-brown
	color at 11 feet
	00101 at 11 1887
· · · · · ·	11.5 - 13.0 (GP) Gravel-sand mixture;
	hard, subangular rock
	particles
	15.0 - 16.5 (GP) WC-123-3
_	Gravel, coarse and fine
	gravel subangular rock
	particles; sand is 60-70%
	fine gravel (no recovery)

•	BORING NOTES Drilling Method Rotary Hole Size 5"								
Angle_Vertical Bearing									
FROM	FROM TO INTERV. RECOV. RECOV. REMARKS								
0.0	10.0	10.0			Fish-tail				
10.0	26.0	16.0			Tri-cone				
26.0	59.0	33.0			Fish-tail				
			-						
	-								

CASING NOTES						
FROM	то	SIZE	REMARKS			
0.0	3.0	5"	Surface			
0.0	7.0		Jairage			

SAMPLING NOTES							
TYPE SAMPLER Split-tube SIZE 211 WT. OF HAMMER 140 1b DROP 3011							
OV. 6" 12" 18" 24"	EGOV.	INTERV.	TO	FROM	SMPL. NO.		
	1.0	1.5	6.5	5.0	1		
0 10 25 42	1.0	1.5	11.5	10.0	2		
12	0	0.5	1.5.3	15.0	3		

GROUND WA	TER	OBSERVATIONS
DEPTH OF HOLE		
DEPTH OF WATER	1	
TIME OF OBSERV.		

HOLE NO. WC-123	DATE3-21-62	PAGE NO. 2 OF 4 PAGES
LOCATION 616 Mission Rd.	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR R. Scott	

	GEOLOGIC NOTES	<u></u>	
Depth	Classification and Physical Character	Dri Hol	
	16.5 - 20.0 (GW) Gravel-sand mixture;	And	gle.
	well graded sand with fine		
	and coarse gravel, tan color	FROM	1
	clean, subangular grains		
	20.0 - 20.1 (GW) WC-123-4		
	Same as above		
	No recovery; just tip		
	20.1 - 22.5 (GW) Same as above		
	22.5 - 24.0 (GM) Gravel-sand-silt		
	mixture; brown color	<u> </u>	-
	24.0 - 25.0 (SM) Sand-silt mixture; coarse to fine sand and gray		
	and green colored silt.		
	damp	ļ	T
	•	FROM	Τ.
	25.0 - 26.0 (ML) WC-123-5	<u> </u>	-
	Grayish-green silt;	L	<u></u>
	micaceous, with thin (1/4")	-	-
	fine sand stringers with	TYPE S	<u>A M</u> PL
	asphaltic base oil, slightly petroliferous odor, dense,	3122	2"
	damp, dipping at 60°	SMPL. NO.	FR
	III NF	4	20
	II OK	5	25
	I OK	6	30.
	26.0 - 30.0 (ML) Same as above		
	30.0 - 31.3 (ML) WC-123-6		
	Same as above		
	31.3 - 35.0 (ML) Same as above		l
		GRO	
		DEPTH	
		TIME	
			J. UB

Scot	JT.	 -	_					
is	Ē	ORI	NĞ	NO	TES			
Dril	Drilling Method Rotary							
Hole	Hole Size 5"							
Ang	le	ertic	al	_ Bea	ring			
FROM	то	INTERV	REGOV.	% R E GOV.	REMARKS			
		ļ						
		ļ						
		<u> </u>			-			
•								
	L	<u> </u>						
	С	ASI	NG	NOT	ES			

CASING NOTES						
FROM	то	SIZE	REMARKS			

SAMPLING NOTES							
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 lb DROP 30"							
FROM	то	INTERV.	REGOV.	6"		WS	24"
20.0	20.1	0.1	0	21/2"			
25.0	26.0	1.0	0.8	18	60		
T		1.3	1.0	20	37		
	FROM 20.0	AMPLER Spli 21 WT. OF HAMI FROM TO	AMPLER Split-tub 21 wt. of hammer 14 FROM TO INTERV. 20. 0 20. 1 0. 1 25. 0 26. 0 1. 0	AMPLER Split tube 21 wt. of hammer 140 lb FROM TO INTERV. RECOV. 20.0 20.1 0.1 0 25.0 26.0 1.0 0.8	AMPLER Split tube 2" wt. of HAMMER 140 1b DRC FROM TO INTERV. RECOV. 6" 20.0 20.1 0.1 0 2" 25.0 26.0 1.0 0.8 18	AMPLER Split tube 2" wt. of HAMMER 140 1b DROP FROM TO INTERV. RECOV. 6" 12" 20.0 20.1 0.1 0 2" 25.0 26.0 1.0 0.8 18 60	AMPLER Split tube 2" wt. of HAMMER 140 1b DROP 30" FROM TO INTERV. RECOV. 6" 12" 16" 20.0 20.1 0.1 0 2" 25.0 26.0 1.0 0.8 18 60

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	-

HOLE NO. WC-123	DATE3-21-62	PAGE NO. 3 OF 4 PAGE
LOCATION 616 Mission Rd.	JOB NO. 6148-5	-
COLLAR ELEV.	INSPECTOR_R. Scott	

1	GEOLOGIC NOTES
Depth	Classification and Physical Character
	35.0 - 36.0 (ML) WC-123-7
	Same as above without the
	fine sand stringers, dense,
	damp
	III NF
	II OK
	I OK
	36.0 - 40.0 (ML) Greenish-gray silt,
	dense, damp with the thin
	$(\frac{1}{4})$ fine sand stringers,
	dipping at 60°, petrolifer-
	ous odor
	40.0 - 41.0 (ML) WC-123-8
	Same as above
· · · · · · · · · · · · · · · · · · ·	III NF
	II OK
	I Disturbed
	41.0 - 45.0 (ML) Same as above
	41.0 - 45.0 (FL) Same as above
	45.0 - 46.0 (ML) WC-123-9
	Same as above
	III NF
	II OK
	I OK
	VAL
1	46.0 - 50.0 (ML) Same as above
	50.0 - 51.2 (ML) WC-123-10
	Same as above with also
	gray and brown colored
	silt stringers which are
	1/4" to 3/4" wide
	III OK
	II OK
	I OK
	51.2 - 55.0 (ML) Same as above

· · · · ·	E	BORI	NĠ	N O	ΓES
Hole	e Siz	Meth e <u>5</u> " ertic			ring
FROM	то			% REGOV.	
	-				
					,

CASING NOTES FROM TO SIZE REMARKS							
FROM	ΤO	SIZE		REMARKS			
			,				

SAMPLING NOTES								
TYPE SAMPLER Split-tube SIZE 2" WT. OF HAMMER 140 1b DROP 30"								
SMPL. NO.	FROM	ΤO	INTERV.	REGOV.	6"	B L (OWS	24'
7	35.0	36, C	1.0	0	24	71		
8		41.0		0.8	22	66		
9	45.0	46.0	1.0	0.9	26	88		
10	50.0	51.2	1.2	1.0	27	78	100	

GROUND WATE	R OBSERVATIONS
DEPTH OF HOLE	
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-123	DATE <u>3-21-62</u>	PAGE NO. 4 OF 4 PAGES
LOCATION 616 Mission Rd.	JOB NO. 6148-5	
COLLAR ELEV.	INSPECTOR R. Scott	
GEOLOGIC NOTE	S	BORING NOTES

COLLAR	ELEV INSPECTOR	≀. Sco	tt		_				
	GEOLOGIC NOTES		E	BORI	ΝĞ	NO	ΓES		
Depth	Classification and Physical Character		•			lotary	7		
	55.0 - 56.0 (ML) WC-123-11	And	gle	Verti	cal	_ Bea	ring		
	Same as above, very dense		 			% REGOV.			
 	and oil sand stringers are	FROM	ТО	INTERV	RECOV.	RECOV.	REM.	ARKS	
 	now 1/16 - 1/8" thick								
	III NF		 	 			 		
<u> </u>	II OK		ļ <u>-</u>	ļ	<u> </u>				
-	I OK		 		<u> </u>				
	56.0 - 60.0 (ML) Same as above								
	60.0 - 61.0 (ML) WC-123-12								
	Same as above; very dense								
	III NF								
	II OK								
	I OK	-4			,			<u> </u>	
	61.0 - 65.0 (ML) Same as above		С	ASI	NG	NOT	ES		
<u> </u>	(7 0 (7 0 (7) 7) 7)	FROM	то	SIZE			EMARKS		
	65.0 - 65.9 (ML) WC-123-13				 	· · · · · · · · · · · · · · · · · · ·	······································		
 	Same as above								
 	III NF	-			<u></u>				
<u> </u>	II OK	F	\$ /	A M P	LINI	G N	OTES		
	I OK	TYPE S	AMPLER.	Spli	t-tub	e	0165		
	(5 0 (0 0 (15) 0						_ DROP		
	65.9 - 69.0 (ML) Same as above	SMPL. NO.	FROM	то	INTERV.	RECOV.	6" 12"	18"	24'
	69.0 - 69.8 (ML) WC-123-14	11				0.8			
	Same as above	12	60.0	61.0	1.0	0.8	31 91 39 100 100 110 91	}	
	III NF	13	65.0	65.9	0.9	0.8	39 170	1	
	II OK	14	69.0	69.8	0.8	0.8	44 95"		
	I OK	 							
	mp 60.81							7	
	T.D. 69.81								
		GRO	חאוו	WΔ	TER	OBS	ERVA	וחו	<u>.</u>
			OF HOL		69.8				<u></u>
l l		 	OF WAT		07.0				

GROUND WA	TER OBSERVATIONS
DEPTH OF HOLE	69.81
DEPTH OF WATER	
TIME OF OBSERV.	

HOLE NO. WC-124	DATE 3-20-62 PAGE NO. 1 OF 2 PAGES
LOCATION M.T.A. Yard	JOB NO. 6148-5
COLLAR ELEV. 290.2	INSPECTOR_R. Scott

	GEOLOGIC NOTES	· · · · · · · · · · · · · · · · · · ·				
epth	Classification and Physical Character					
	0.0 - 0.5 Pavement					
	0 f 0 (0D) Fi					
	0.5 - 5.0 (GP) Fine, gravel mixture, brown	-sand				
	mixture of Diowii					
	5.0 - 6.5 (ML) WC-124-1					
	Sandy silt with sr	mall				
	amount of fine gra					
	light brown color	; damp				
	6.5 - 10.0 (SM) Sand-silt mix					
	silt and coarse sa	and, light				
	brown color, damp	, loose				
	10.0 - 11.5 (SM) WC-124-2					
	····	a an area a dec				
	Same as above with to subangular gra:					
	to subangular gra.	T112				
	II OK					
	I OK					
	11.5 - 15.0 (SM) Same as above	e and				
	changing to a fine	e sand				
	at 14.0°					
	7 (cn) 7 (cn)					
	15.0 - 16.5 (SP) WC-124-5	3 0:				
	Poorly graded sand					
	grain, light brown					
	wet with infrequent sand and fine graduate					
	particles	A G T				
	particles III NF					
· ·	II OK					
	I OK					
	16.5 - 20.0 (SP) Same as above)				

ſ	BORING NOTES								
Drilling MethodRotary Hole Size5"									
Angle Vertical Bearing									
FROM TO INTERV. RECOV. RECOV. REMARKS									
0.0	0.5	0.5			Tri-cone				
0.5	31.0	30.5			Fish-tail				
c									
			•						

	С	ASI	NG NOTES
FROM	то	SIZE	REMARKS
0.0	1.5	5"	Surface

SAMPLING NOTES									
TYPE SAMPLER SPLIT-TUDE SIZE 2" WT. OF HAMMER 140 1b DROP 30"									
FROM	то	INTERV.	REGOV.	6"	8 L C	WS T	24"		
5.0	6.5	1.5	0.8	3	6	10			
.10.d	11.5	1.5	0.8	1	3	6			
15.d	16.5	1.5	0.8	1	3	5			
						·			
		ĸ							
	FROM 5.0	MPLER WT. OF HAM FROM TO 5.0 6.5	MPLER 21 WT OF HAMMER 5.0 6.5 1.5 1.5 1.5	Spling S	### SP11 C-1 2 WT. OF HAMMER 140 1b DRG FROM TO INTERV. RECOV. 6" 5.0 6.5 1.5 0.8 3 10.0 11.5 1.5 0.8 1	Split - tube Spli	Split - tube		

GROUND WA	TER	OBSERVA	TIONS
DEPTH OF HOLE			
DEPTH OF WATER			,
TIME OF OBSERV.	}		

HOLE NO. WC-124	DATE	PAGE NO. 2 OF 2 PAGES
LOCATION M.T.A. Yard	JOB NO. 6148-5	_
COLLAR ELEV.	INSPECTOR_R. Scott	

COLLAR	ELEV.	INSP	ECTOR_R	. Scot	tt	 -	_					
GEOLOGIC NOTES				BORING NOTES								
Depth	Classificat	ion and Physical	Character	Drilling Method Rotary Hole Size 5"							_	
	20.0 - 21.5	(SP & ML) WC-124-1	4	Angle <u>Vertical</u> Bearing								
		Fill Material - fi		FROM	то	INTERV	REGOV.	% R E GOV.		REMA	RKS	
		clayey silt with										
		black, brown and o										
		weathered particle	•									
		soft formation)										
	21.5 - 25.0	(SP & ML) Same as	above,						ļ		 -	
		changing to green:	ish-gray									
		silt										
	25.0 - 26.5	(ML) WC-124-5										
		Light greenish-gra	ay silt,									
		damp, interbedded	with									
		brown to orange-b	rown,	L	<u> </u>			<u></u>	<u> </u>			
		micaceous silt di	oping at		C	ΔSI	NG	NOT	F			
	- 	35-40°; dense		FROM	то	SIZE		REMARKS				
		III Disturbed		-								
		II OK			, ,							
		I OK				l						
	26.5 - 27.0	(ML) Same as above	e	SAMPLING NOTES TYPE SAMPLER Split-tube								
	27.0 - 30.0	(ML) Grayish-green	2	SIZE 211 WT. OF HAMMER 110 16 DROP 3011								
	21.0 - 50.0	micaceous silt wit		SMPL. NO.	FROM	TO	INTERV.	REGOV.	6"	12"		24"
	1	green to black si	_ 1	14	20.0	21.5	1.5	0.8	*		2	
		dark brown. micace		_5	25.0	26.5	1.5	1.0	1	_3_	_8_	
		sand stringers di		6	30.0	31.0		0.8				
		60°; dense to ver					*wei	ght d	f h	amme	r	
							cau	sed s	amp	ler	to	
	30,0 - 31,0	(MI.) WC-124-6	2				sin	k 10"				
		Same as above; ver	ry dense									
	T.D. 31'											
			_									
				GRC	UND	WA	TER	OBS	ER	VAT	101	NS
		, .			OF HOLE		31					

DEPTH OF WATER