

Mountain View

Oakland

San Ramon

Fullerton

120437

March 19, 2003 1731-2G

Mr. Amir Gholami
ALAMEDA COUNTY DEPARTMENT OF
ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, California 94502

RE:

2901 GLASCOCK STREET OAKLAND, CALIFORNIA

Dear Mr. Gholami:

As requested, this letter transmits copies of boring logs for 2901 Glascock Street in Oakland, California (Site). In addition, additional information discussed on March 18, 2003 is addressed below.

Diesel Concentration Spikes

During August 2002, concentrations of diesel increased in monitoring wells MW-1, MW-2, and MW-6. Shaw Environmental, the consultant performing the quarterly monitoring at 2901 Glascock Street, reported that the spikes in diesel concentrations were the result of laboratory error. Diesel concentrations detected in November 2002 were consistent with analytical results from the previous six quarters (excluding the August 2002 spike).

Cleanup Goals

Soil and ground water cleanup goals have been approved by the California Regional Water Quality Control Board for 303/315 Derby Avenue. Because subsurface materials and ground water conditions are consistent between 2901 Glascock Street and 303/315 Derby Avenue and the parcels will be combined for redevelopment, the approved cleanup goals appear appropriate for the Site.

As discussed, concentrations of petroleum hydrocarbons detected in soil were below the cleanup goals for the Site. In addition, concentrations of petroleum hydrocarbons, including gasoline, diesel, and benzene, have been below the residential cleanup goals since quarterly monitoring began in 1995. Concentrations of petroleum hydrocarbons in ground water have been decreasing over time. During November 2002, no petroleum fuel hydrocarbons were detected in ground water above the ecological cleanup goals, with the exception of monitoring well MW-2, where diesel slightly exceeded the cleanup goal. Monitoring well MW-2 is located 240 feet from the estuary. Based on the measured ground water flow direction and analytical results from down-gradient well MW-6, the diesel above ecological cleanup goal appears limited in extent and does not likely extend to the estuary. In addition, the ecological cleanup goals for 303/315 Derby Avenue are for a 50-foot wide buffer from the top of the estuary bank. Because MW-2 is significantly outside the ecological buffer zone, ground water beneath 2901 Glascock Street appears appropriate for case closure.

As discussed in the March 6, 2003 summary report, two isolated areas of soil exceeding cleanup goals were identified during previous investigations. These two areas, shown on Figure 2 of the summary report, will require soil removal before residential redevelopment. The soil removal will occur after the demolition of the on-Site structure, likely during July or August 2003. Verification soil sampling and laboratory analyses are described in the February 3, 2003 risk management plan.

If you have any questions, please call and we will be glad to discuss them with you.

Very truly yours,

LOWNEY ASSOCIATES

Peter M. Langtry, R.G., C.HG.

Principal Environmental Geologist

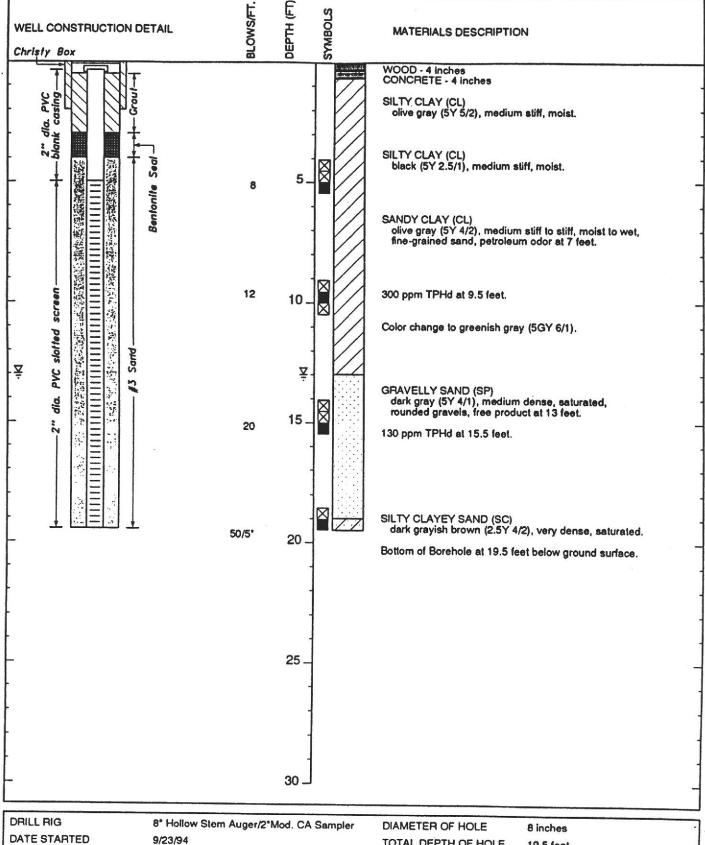
Copies:

Addressee (1)

Signature Properties (1)
Attn: Mr. Patrick Van Ness

Attachment: Exploratory Boring Logs

OK P:\Projects\1700\1731-2 Derby-Glascock\1731-2G remediation\1731-2G Glascock 031903 letter.doc



DATE COMPLETED

INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

TOTAL DEPTH OF HOLE

19.5 feet

TOP OF CASING ELEVATION 10.76 feet MSL

Log of Boring MW-1 and **Well Completion Detail** 2901 Glascock Street Oakland, California

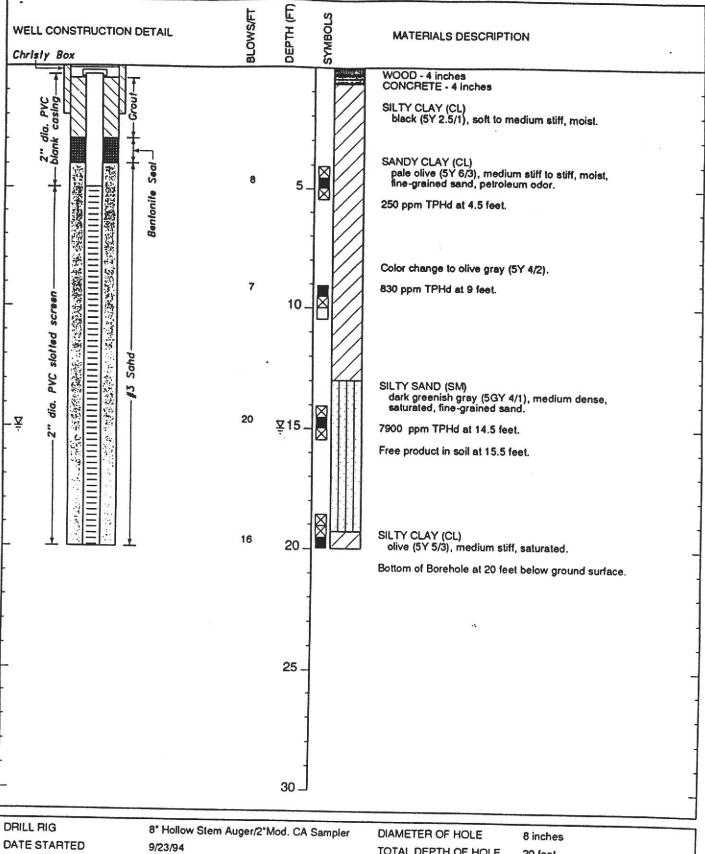
JOB NUMBER 3406



9/23/94

DATE 11/94 REVISED DATE

B001606



DATE COMPLETED

INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

TOTAL DEPTH OF HOLE

20 feet

TOP OF CASING ELEVATION 10.62 feet MSL

Log of Boring MW-2 and Well Completion Detail 2901 Glascock Street Oakland, California

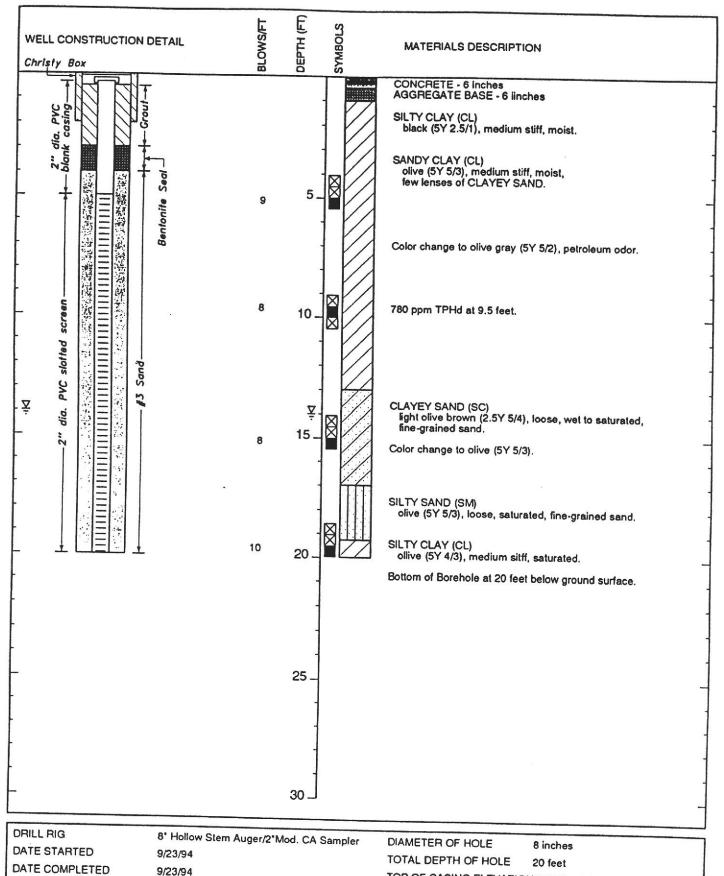
JOB NUMBER 3406



9/23/94

DATE 11/94 REVISED DATE

B001607



INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

TOP OF CASING ELEVATION 9.87 feet MSL Log of Boring MW-3 and

Well Completion Detail 2901 Glascock Street Oakland, California

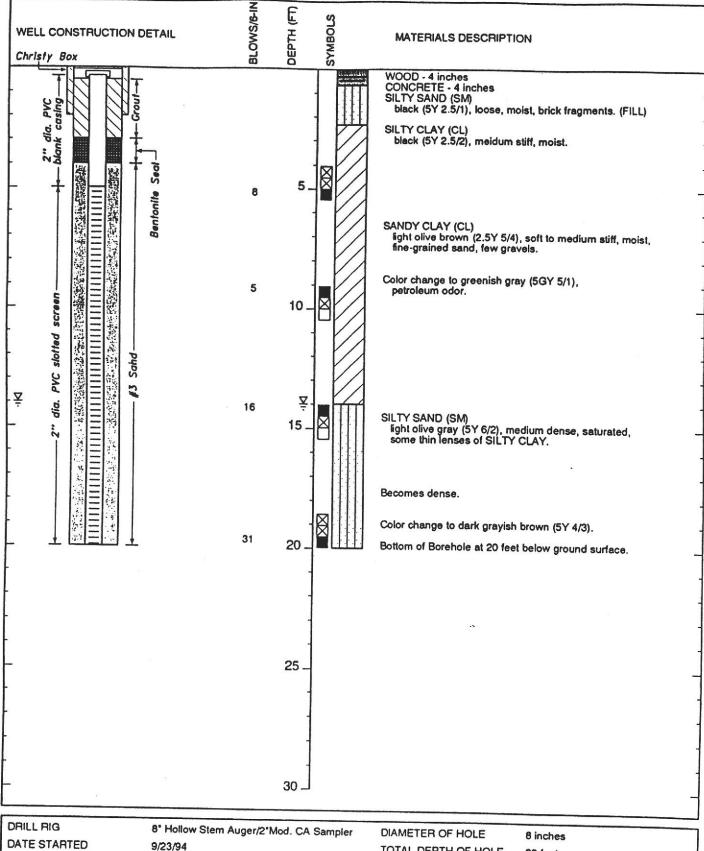
JOB NUMBER 3406

DATE 11/94

REVISEDE

B001608

PLATE



DATE COMPLETED

INDUSTRIAL AND ENVIRONMENTAL CONTRACTOR

TOTAL DEPTH OF HOLE

20 feet

TOP OF CASING ELEVATION 10.64 feet MSL

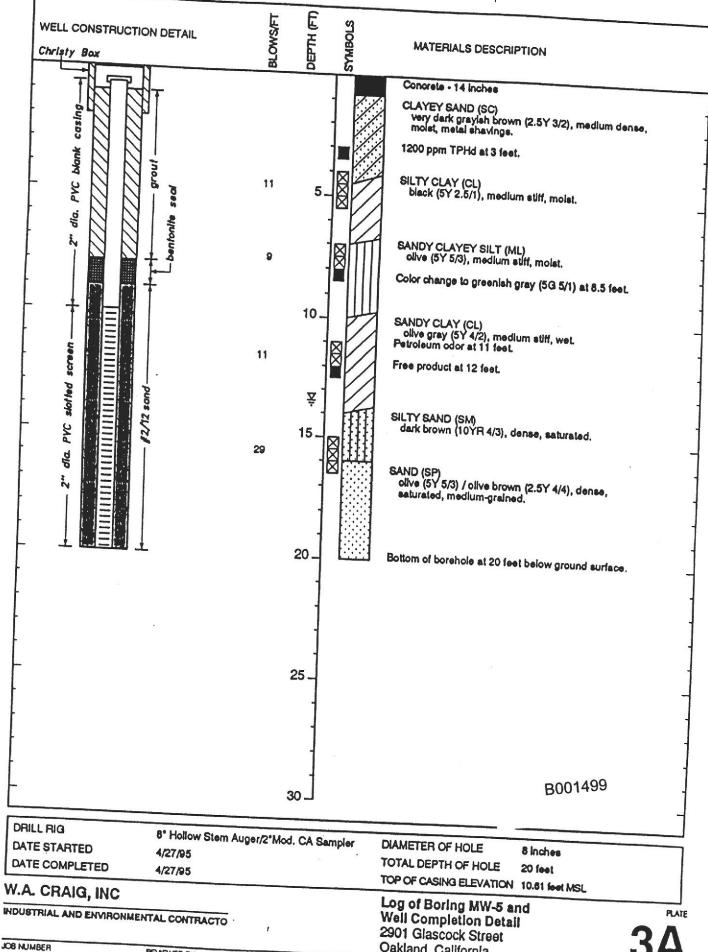
Log of Boring MW-4 and **Well Completion Detail** 2901 Glascock Street Oakland, California

JOB NUMBER 3406



9/23/94

DATE 11/94

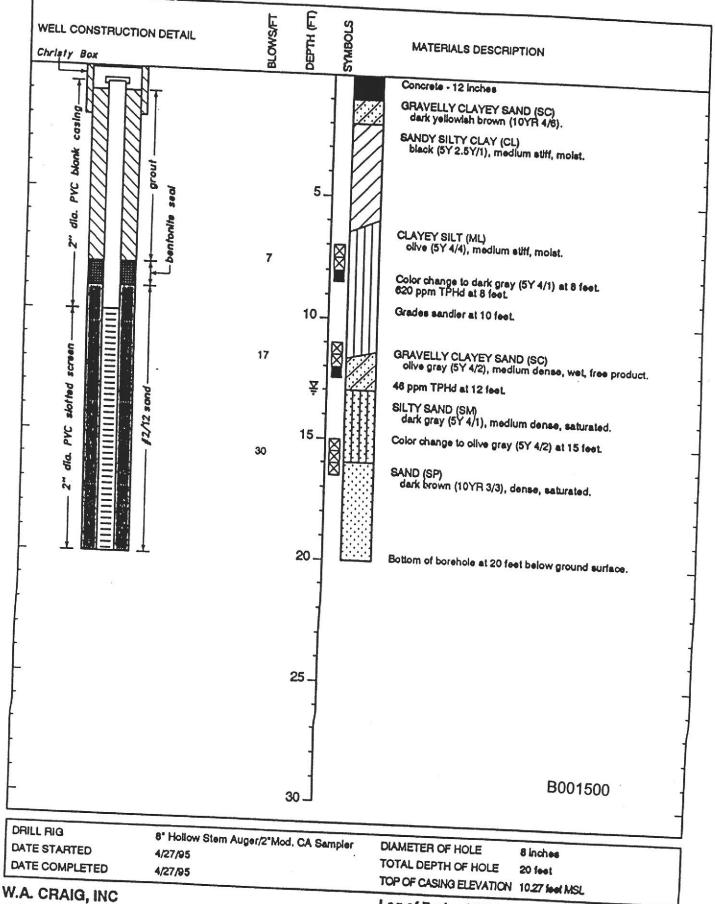


3406

Oakland, California

6/95

DATE



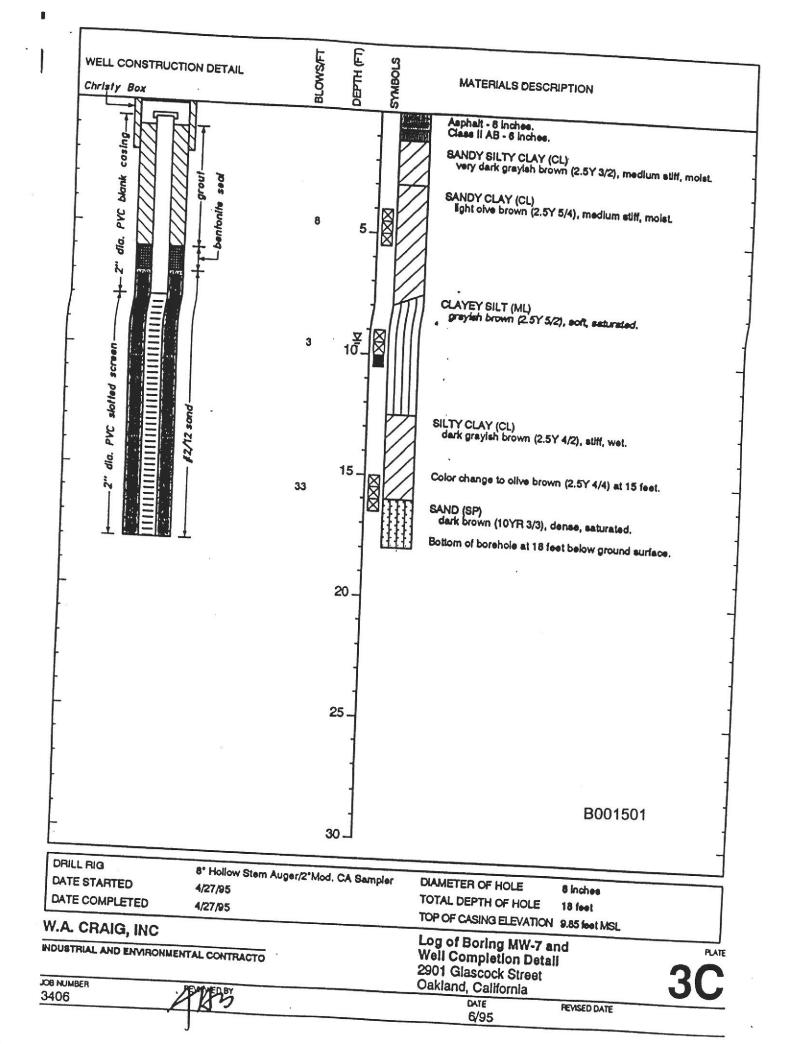
3406

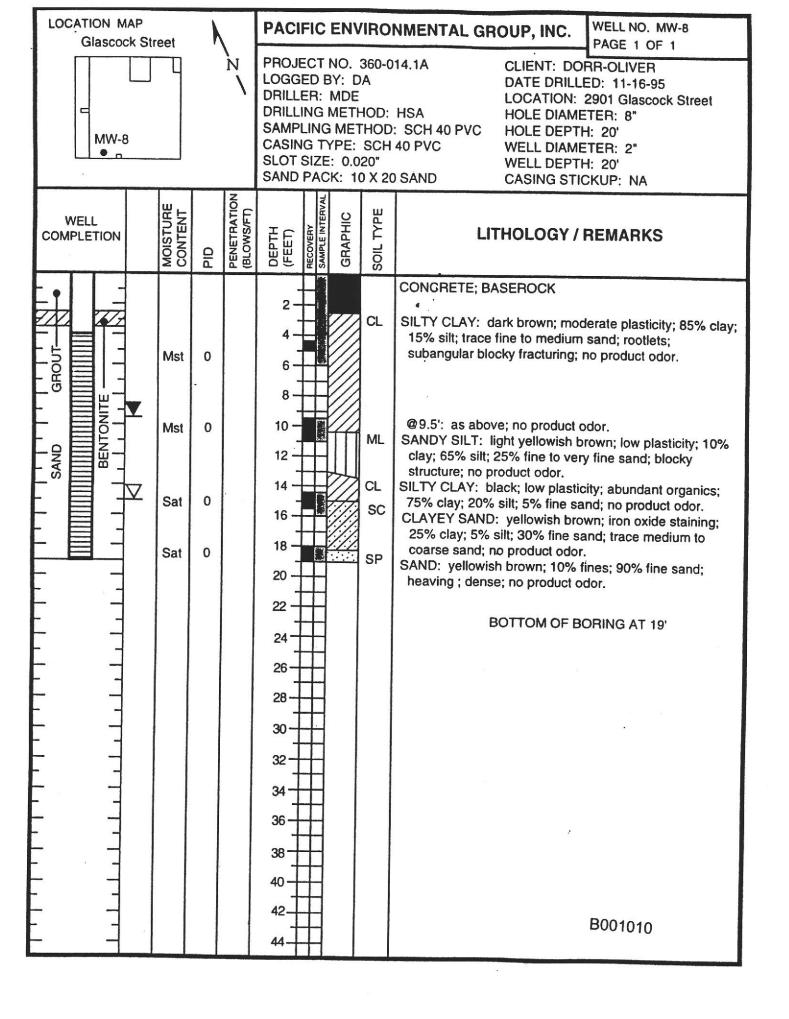
INDUSTRIAL AND ENVIRONMENTAL CONTRACTO

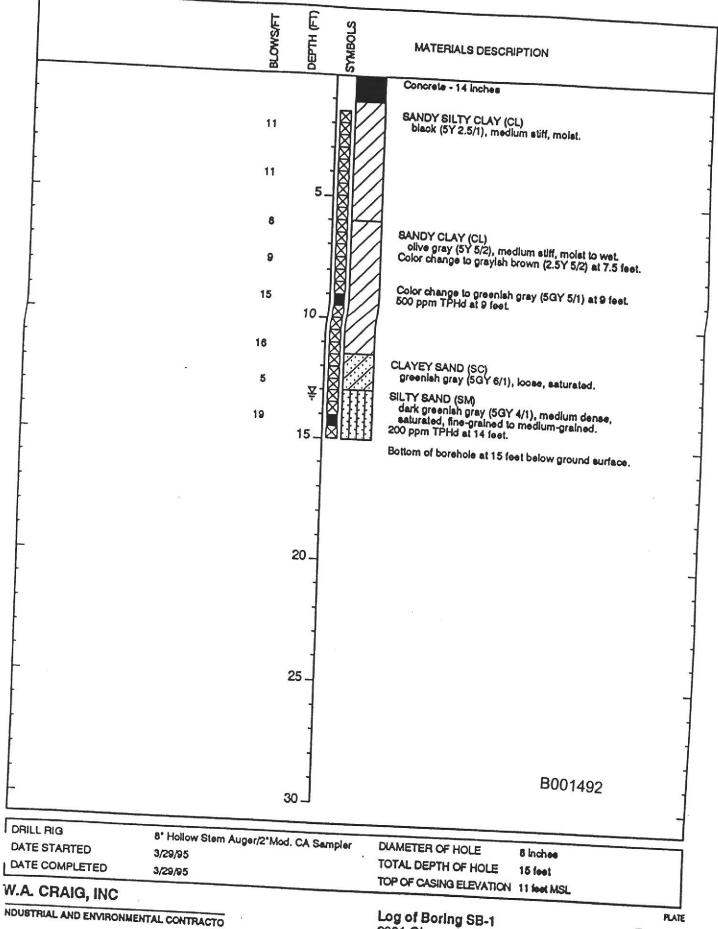
Log of Boring MW-6 and Well Completion Detail 2901 Glascock Street Oakland, California

JOB NUMBER

DATE 6/95



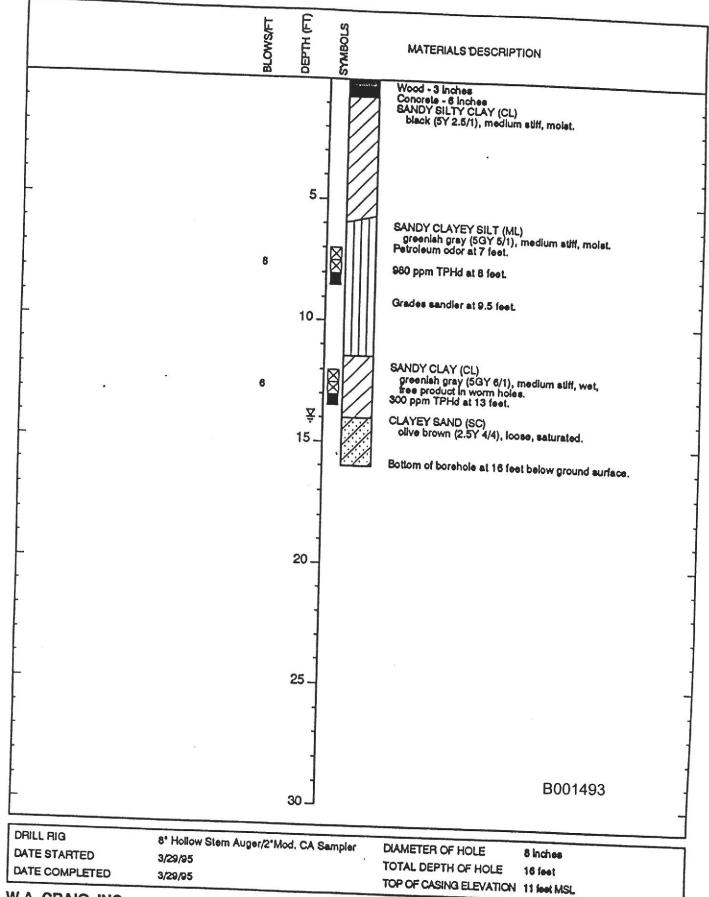




DB NUMBER 3406

Log of Boring SB-1 2901 Glascock Street Oakland, California

DATE 6/95



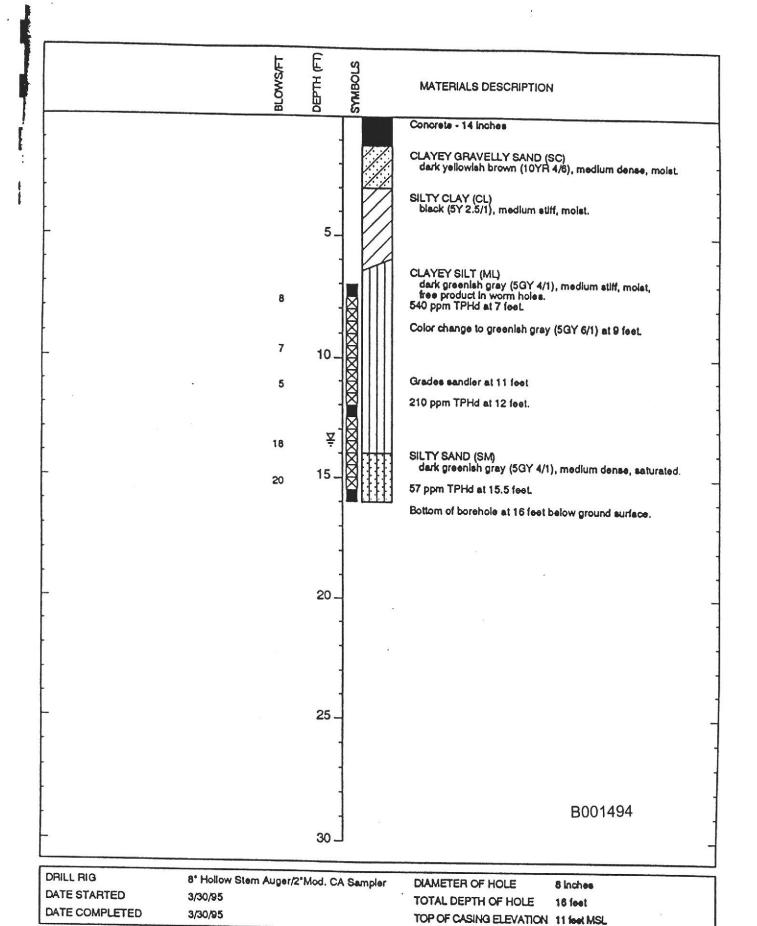
INDUSTRIAL AND ENVIRONMENTAL CONTRACTO

Log of Boring SB-2 2901 Glascock Street Oakland, California

2B

JOB NUMBER . REVIEWED B

DATE 6/95

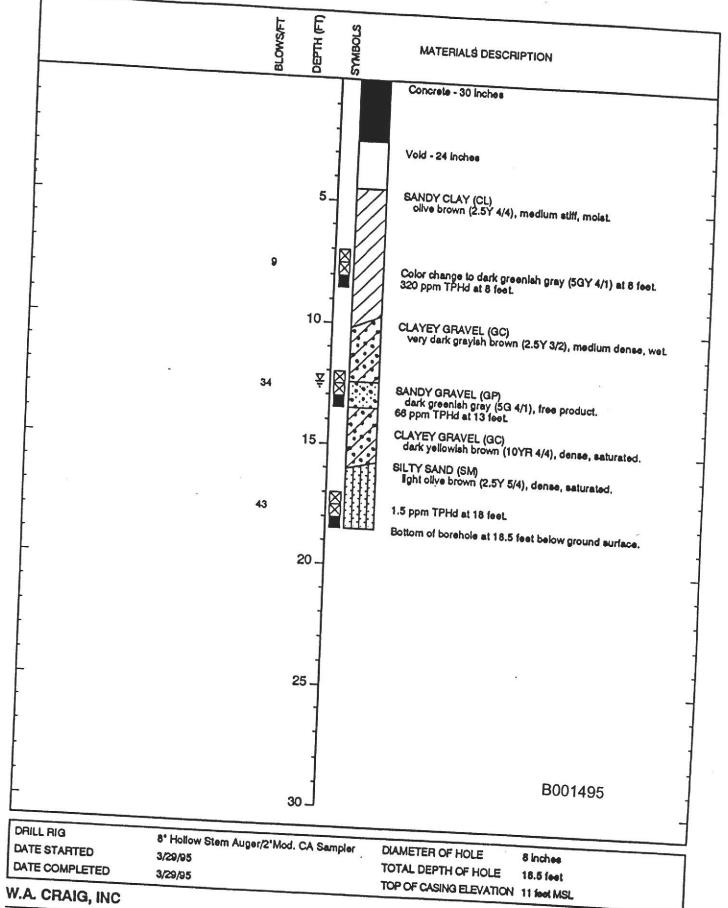


INDUSTRIAL AND ENVIRONMENTAL CONTRACTO

Log of Boring SB-3 2901 Glascock Street Oakland, Callfornia 2C

FEMEWED BY

DATE



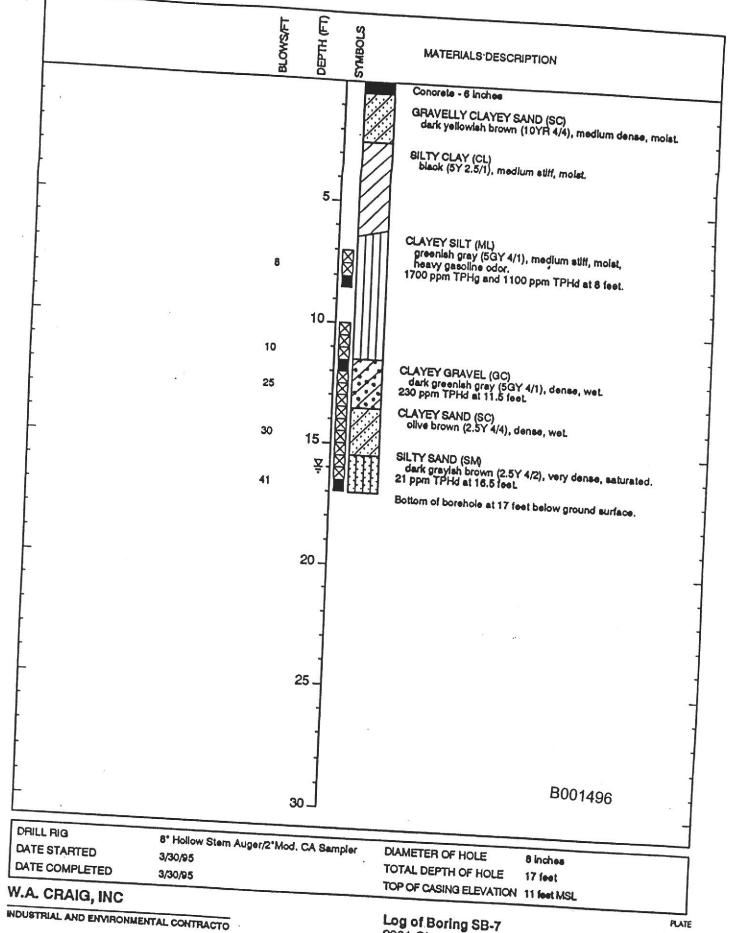
INDUSTRIAL AND ENVIRONMENTAL CONTRACTO

JOB NUMBER 3406 Log of Boring SB-4 2901 Glascock Street Oakland, California

2D

1000 m

DATE 6/95

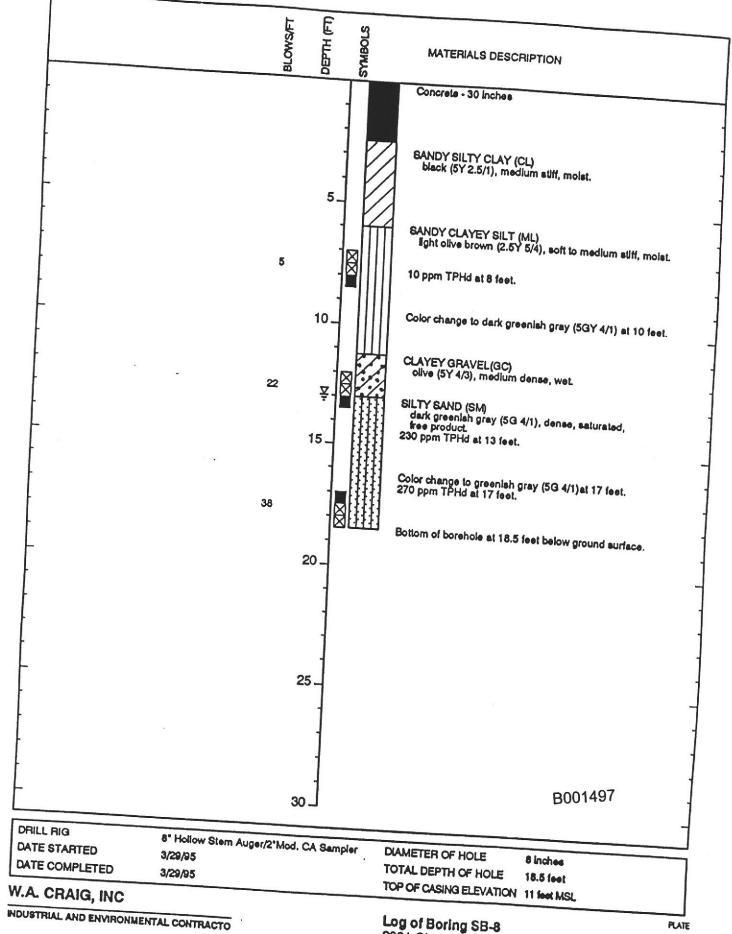


Log of Boring SB-7 2901 Glascock Street Oakland, California

2E

DATE REVISED DATE 6/95

JOB NUMBER 3406

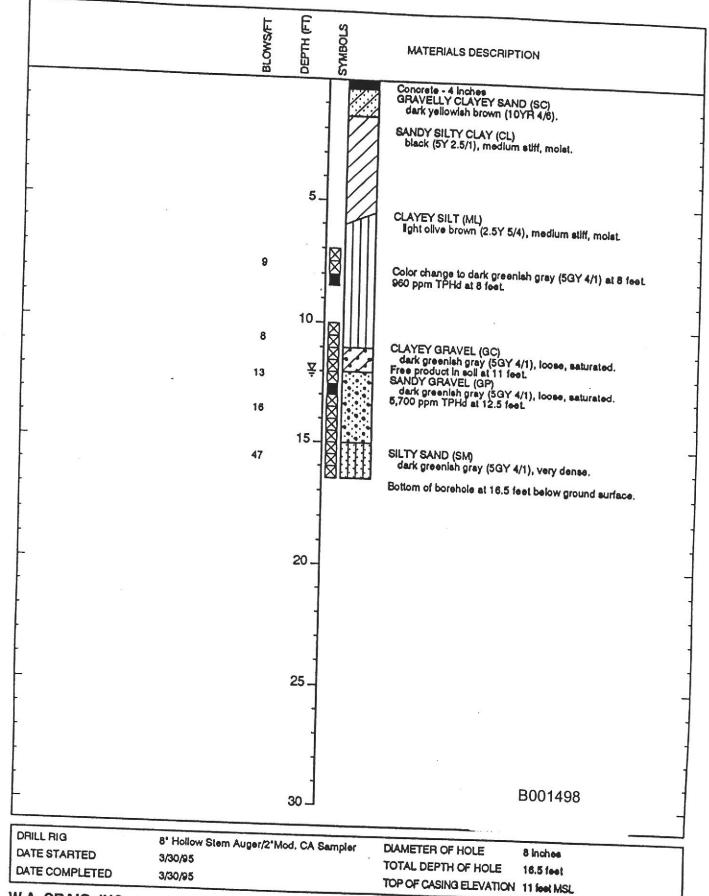


JOB NUMBER

3406

Log of Boring SB-8 2901 Glascock Street Oakland, California

DATE 6/95



INDUSTRIAL AND ENVIRONMENTAL CONTRACTO

Log of Boring SB-9 2901 Glascock Street Oakland, California

2Ğ

JOB NUMBER REMEWGO B 3406

6/95

			EXPLORATORY	BOR	INC	d: F	CE	3-9			S	Sheet	t 1 c	of 1	
0.0000000000000000000000000000000000000			RONEX	PROJECT	NO:	1731-2	2A								
			DIRECT PUSH	PROJECT	: GLA	SCO	CK	STR	EET	•					
LOGG				LOCATION	N: OA	KLAN	D,	CA							
STAR	T DA	TE:	10-2-01 FINISH DATE: 10-2-01	COMPLET	TION D	EPTH	: 4	.0 F	Γ	,					
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	This log is a part of a report by Lowney Associates, and should not be u stand-alone document. This description applies only to the location of the at the time of drilling. Subsurface conditions may differ at other locations change at this location with time. The description presented is a simplifi actual conditions encountered. Transitions between soil types may be	avalaration	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	ОР	ndraine ocket Porvane	(ksf)	r Streng	th
핍	_	SOII	MATERIAL DESCRIPTION AND REMAI	RKS	S	RES (BL)	S	CON	DRY {	ERCE NO.				npression	
	0-		SURFACE ELEVATION:							₫.	107 100 100			npressio 3.0 4.	
	_	XXX	4 inches wood floor 8 inches concrete								:				
			SILTY CLAY (CL)		CL							ā			
			black, debris, rock-gravel, brick, minor sand SILTY CLAY (CL) medium stiff, black, 15% silt		CL						9				
	5-		Bottom of Boring at 4 feet								ii.				
	_														
	_			1											
	_			4											:
	_			4											
	10-			4							1				
	-														
	_			_											
	-			4											
	_			_											
	15-			4											
	-														
	-			-											
	_			4											
	_			_											
	20-			4									-		
	_			4										d d	
	-			4											
	_			4											
	1			4											
	25-			4							-				\perp
	_			4											
	_			4)		
	_			1											
	_														
	30-			4											
GR	OUNE	√WA [*]	TER OBSERVATIONS:												

			EXPLORATORY	BORI	NG	: E	B	-1()		:	Sheet	t 1 c	of 1	
DRILL	. RIG	: VII	RONEX	PROJECT											
BORII	NG T	YPE:	DIRECT PUSH	PROJECT	: GLA	SCO	CK	STR	EET	•					
LOGG	ED E	3Y:	CM	LOCATION	N: OA	KLAN	D,	CA							
STAR	T DA	TE:	10-2-01 FINISH DATE: 10-2-01	COMPLET	TION D	EPTH	: 8	.0 F	Т.						
			This log is a part of a report by Lowney Associates, and should not be a stand-alone document. This description applies only to the location of the	ised as a							ι	Indraine	d Shear (ksf)	r Stren	gth
z		Q.	at the time of drilling. Subsurface conditions may differ at other locations change at this location with time. The description presented is a simplif	and may	ш	NS (:	0	я (%)	≽	SSING	O F	ocket P		neter	
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	actual conditions encountered. Transitions between soil types may be	gradual.	SOIL TYPE	TRAT STAN WS/F	SAMPLER	STUR	CF)	T PAS	۲ ک	orvane			
ELE		SOIL	MATERIAL DESCRIPTION AND REMA	RKS	SOII	PENETRATION RESISTANCE (BLOWS/FT.)	SAN	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	• t	Inconfin	ed Com	pressio	on
			SURFACE ELEVATION:						_	PE	ا ▲	I-U Triax		50	on
-	0-	2.50	6 inches concrete slab				-				1	.0 2	.0 3	.0 4	4.0
	-	600	GRAVEL (GP) [Baserock]	-											
	-	000	loose, orange brown, 30% coarse sand	1	GP							1			
	_		SILTY CLAY (CL) medium stiff, moist, black, no debris		CL		H								
	5-		transitional contact SILTY CLAY (CL)									-	-		-
-	_		white, minor rock fragments, minor sand, friab	le	CL		П						1		
	-		SILTY CLAY (CL) stiff, moist, grayish, 20-30% silt, 10-15% sand	_	CL									9	
-	-		Bottom of Boring at 8 feet										-		
	10-														
				4											
	_			_											
	-			4											
	-			4											
	15-			-							=		-	-	+-
	-			- 4											
	-			-											**
	-		¥	4											2.
	-			-											
	20-			-										-	+
	-			-											
	-			-											
	-			-											
	-			4											
	25-			-							-			- 1	++-
	-			-											
	-			4											
	-			-											20
	-			-											2:
	30-			-											:
GR			L TER OBSERVATIONS: E GROUND WATER ENCOUNTERED												<u> </u>

				EXPLOR	AIUKY	ROKI	ING	r: E	R	-]	L			Sheet	. 1 c	of 1	
			RONEX			PROJECT	NO:	1731-2	2A								
			DIRECT	PUSH	, r	PROJECT	: GL	ASCO	CK	STR	EET	ů					
LOGG	ED B	SY:	CM			LOCATION	N: OA	AKLAN	D, (CA							
STAR	T DA	TE:	10-2-01	FINISH DATE: 10	0-2-01	COMPLET	ION E	DEPTH	: 8	.0 F	Τ.						
ELEVATION (FT)	O (FT)	SOIL LEGEND	at the time change at actual co	s a part of a report by Lowney Assoc document. This description applies of drilling. Subsurface conditions met this location with time. The description difference of the conditions of the conditions be conditioned to the conditions be conditioned. TERIAL DESCRIPTION SURFACE ELE	nay differ at other location tition presented is a simpli etween soil types may be ON AND REMA	is and may ification of gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O Po	ndraine ocket Proprvane nconfine -U Triax	(ksf) enetron ed Com	neter pressio pressio	on
	_		3 foot cor	ncrete slab												!	
_	_		SILTY CL	AY (CL)	ottom of interv											10	
	5-		fragments		ce and red bric	k	CL									i	-
	_		SILTY CL dense, me grained s	AY (CL) oist, gray-green, silt 2 and, native	25-30%, 10-15%	% fine –	CL		П				18				
	- 10–		Bottom of	f Boring at 8 feet		1-											
	-					-											
	15— -					-											
	- - 20-					-										17	
	-					-							18			18 12	
	25-																
	-															2	
	30-												iii				
	30-												3				

				EXPL	ORATOR	Y BOR	INC	: E	B	-12	2		5	Sheet	t 1 c	of 1	
DRILL	RIG	: VI	RONEX			PROJEC	CT NO:	1731-	2A								
BORII	NG T	YPE:	DIRECT	PUSH		PROJEC	CT: GL	ASCO	CK	STR	EET	•					
LOGG	ED E	3Y:	CM			LOCATI	ON: O	AKLAN	D,	CA							
STAR	T DA	TE:	10-2-01	FINISH DAT	E: 10-2-01	COMPL	ETION I	DEPTH	: 8	.0 F	Τ.						
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	stand-alone at the time change a actual o	a document. This description of comments of the control of the con	ney Associates, and should no in applies only to the location of inditions may differ at other loc inditions may differ at other loc inditions between soil types may RIPTION AND RE	of the exploration ations and may implification of ay be gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O P4 △ T4 ● U4	ocket P orvane nconfin -U Triax	(ksf) renetron ed Com xial Com	npressio	n
-		000	6 inch co	ncrete slab	orown, rusty baser	ook		-									
	-		SILTY CI black, lot fragment	LAY (CL) ts of brown-rust : ts, poor recovery	spots, minor grave		CL		D						6 8 9		
	5-		SILTY CI medium sand inte	stiff, moist, black ervals, silt 15-20	k, minor rusty spot %	s, minor fine	CL			-							
] -		SILTY CI	LAY (CL)			- CL										
	-		√white, lig √SILTY CI	nt gray LAY (CL)			CL	1						100	2		
	-		medium	stiff, moist, gray of Boring at 8 fee	-green		/		ç						151		
	1:0-		Bottom o	or Boring at 8 fee	PT.										1		
	-		2				-		10					3	315		
	15-						1										
	20-													and the same of th			
	-																
GF G	25-																
9	50									į.							
GF	ROUN	D WA	TER OBSE	RVATIONS:					1				1				
Ś	NO	FRE	E GROUND	WATER ENCOU	NTERED												

				EXPL	ORATORY	BOR	ING	: E	B	-13	3		S	Sheet	t 1 c	f 1	
DRILL	RIG	VI	RONEX			PROJECT	ΓNO:	1731-2	2A								
BORII	VG T	YPE:	DIRECT	PUSH		PROJECT	Γ: GL/	ASCOC	K	STR	EET	•					
LOGG	ED E	Y:	СМ			LOCATIO	N: OA	KLAN	D,	CA							
STAR	T DA	TE:	10-2-01	FINISH DAT	E: 10-2-01	COMPLE	TION D	EPTH	: 8	.0 F	Τ.						
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	stand-alone at the time change at actual co	document. This description of drilling, Subsurface cor this location with time. The notitions encountered. Transtended the CERIAL DESCR	ney Associates, and should not be n applies only to the location of the diditions may differ at other location e description presented is a simple sitions between soil types may be RIPTION AND REMARED TON:	e exploration s and may fication of gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O Po	ocket P orvane nconfin U Triax	d Shear (ksf) enetron ed Com (ial Com	neter pression pressio	n
-	0-	14	2 1/2 feet	concrete slab									T	2		- 4	ĬΤ
-	- - - 5		SILTY CL medium s	stiff, moist, black -15%	ς, some sand, minor	rust -	CL	-							5 9 9	·	100
_	- - -		SILTY CL stiff, mois mottles	AY (CL) st, light brown/gr	ay-green, some rust	black -	CL							ė			
	10-		Bottom of	f Boring at 8 fee	t	-											
	- - - 15-					-				a			3				
	- 20-					- - -								13			
	-					- - -											
GF	25					-								iii			
	30-					-	1						-				
GF			TER OBSER	RVATIONS: WATER ENCOUN	ITERED		1		L		I						

				EXPL	ORAT	ORY	BORI	ING	: E	B	-14	1		5	Sheet	1 0	f 1	
DRILL	RIG	: VII	RONEX	The second secon			PROJECT	NO:	1731-2	2A								
BORII	NG T	YPE:	DIRECT	PUSH			PROJECT	: GLA	SCO	CK	STR	EET						
LOGG	ED E	3Y: (СМ				LOCATIO	N: OA	KLAN	D,	CA							
STAR	T DA	TE:	10-2-01	FINISH DA	TE: 10-2-01		COMPLET	TION D	EPTH	: 4	.5 F	Γ						
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	stand-alone at the time change a actual co		ion applies only to the conditions may differ a The description preserransitions between so RIPTION AN	e location of the at other locations inted is a simplification of the second of the se	exploration s and may ication of gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	○ P△ T● U▲ U	ndraine ocket Provane nconfine -U Triax	(ksf) enetrom ed Comp ial Com	neter pression pression	n n
	0- - - -		two to thr	ncrete slab, loc ree pours matitic materia			-							21		,4	=	
	5-		(metal fili	ings?) with drill of Boring at 41/2	i, vory nara,	oodid flot	Ferrerate											
	-		Bottom o	of Boring at 41/2	feet		_								2			
	10-																	
							- - -						i i	5				
	-						- - -							E				
	20-						_									;		
GF GF	- - - - 30-						- - - -											
GF				RVATIONS: WATER ENCOL	JNTERED													

				EXP	LORAT	ORY	BOR	ING	: E	B	-1:	5		5	Shee	t 1 c	of 1	
			RONEX				PROJEC.	T NO:	1731-	2A								
			DIRECT	PUSH			PROJEC'	T: GL	ASCO	CK	STR	REET	-					
LOGG							LOCATIO	N: OA	AKLAN	D,	CA							
STAR	T DA	TE:	10-2-01	FINISH DA	ATE: 10-2-01	<u> </u>	COMPLE	TION E	EPTH	: 7	.0 F	Т.					2000	02-000
ELEVATION (FT)	P DEPTH (FT)	SOIL LEGEND	stand-alone at the time change at actual co	document. This descre of drilling. Subsurface t this location with time anditions encountered.	cowney Associates, and ipition applies only to the conditions may differ a conditions may differ a The description pressor Transitions between so CRIPTION AN	e location of the at other locations ented is a simplif oil types may be	exploration s and may fication of gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O Po	ocket P orvane nconfin -U Triax	(ksf) enetror ed Com kial Con	ipressio npressio	n
	-		2 1/2 1661	i concrete siai	D													
_	-		SILTY CL medium s	AY (CL) stiff, moist, bla s, minor sand	ack, brick frag	ments and	d rock	CL										
	5		SILTY CL	.AY (CL)				CL		Н						1		
-			Transition	n zone, grav-b	ack, 15% silt, i black mottled s	native silty clav		CL	1									
_	_		SILTY CL	AY (CL)				CL							19			
	- 10-		Bottom of	f Boring at 7½	reen, 25-30% 2 feet	SIII, 15%	sand /							ā	٠			
	-						-											
	-						-							0		49		
	15 -						-											
	-													3	1924		and the second	
	20-						_								+			
H	-						; - -								*			
	25-						-					١			-	-		
	-						-										3	3
	30-						_											- 1
CP	OI INI	7 10/0	TED OBSES	DV/ATIONIC:					<u></u>									
GR	OUNI		TER OBSER	RVATIONS: WATER ENCO	UNTERED													

				EXPL	ORATO	RY B	ORI	NG	: E	B	-10	6		5	Sheet	t 1 c	of 1	
DRILL	RIG	VII	RONEX			PF	ROJECT	NO:	1731-2	2A								
			DIRECT	PUSH		PF	ROJECT	: GLA	SCOC	CK	STR	EET						
LOGG							CATIO											
STAR	T DA	TE:	10-2-01	FINISH DAT	E: 10-2-01	CC	DMPLE1	TION D	EPTH	: 8	.0 F	Τ						
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	stand-alone at the time change al actual co	s a part of a report by Low document. This descriptio or of drilling, Subsurface cor t this location with time. The unditions encountered. Train TERIAL DESCR	n applies only to the locati nditions may differ at other e description presented is nsitions between soil types	ion of the exploir locations and is a simplification is may be gradu	ration may of al.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O Po	ocket P orvane nconfine -U Triax	(ksf) enetron ed Com kial Com	r Streng neter pression pression 0 4.	n on
_	0-		GRAVEL	(GC)										•	.0 2	1 3	0 4.	
_	-			y, rusty orange,	55% coarse sar	nd, baser	ock – –	GC							31 31 34			
	_		SILTY CL medium s	stiff, moist, black	k, sand, minor g	ravel, brid	ck -	CL		0					- 37			
-	5-		fragment SILTY CL	s, rusty spots					1									
	-			stiff, moist, black	k, minor brown r	rusty mott	les, _	CL							1		1	
-	-		Transition	n, light-gray mot	tled			CL										
-	-		SILTY CL	.AY (CL) 25% silt, 10% fii	ne grained sand	l minor ro	nck /	CL										
	-		\fragment:	s f Boring at 8 fee		,												18
	10-		Bottom o	i builing at o lee	· C		-											
	-						-											10
	-																8 1	i.
	-						_											
	15-						_											1
	-						-									10		
	-						=								92	,		i
	-						_								(4	9		
	-						-								14	ā	8	8
	20-						_							H	-			
	-														at			
	-						-								1			8
	-						-											
	-																	
	25-	1					-											
	-						7											
							_											
	20						-											
	30-						_											
GF				RVATIONS: WATER ENCOUN	NTERED													

				EXPL(DRATOR	Y BORI	ING	: E	<u>B</u> -	-17	7		S	heet	1 0	f 1	
DRILL	RIG:	VII	RONEX			PROJECT	NO:	1731-2	2A								
BORII	NG T	YPE:	DIRECT	PUSH		PROJECT	: GL/	ASCOC	CK S	STR	EET						
LOGG	ED E	Y:	CM			LOCATIO	N: OA	KLAN	D, (CA							
STAR	T DA	TE:	10-2-01	FINISH DATE	: 10-2-01	COMPLET	LION C	EPTH	: 8.	0 F	Γ						
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	stand-alone at the time change at actual co	document. This description of drilling, Subsurface cond this location with time. The nditions encountered. Trans	y Associates, and should no applies only to the location of titions may differ at other loci description presented is a sittlines between soil types may provide the provided that the provided	of the exploration altons and may implification of ny be gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O Po	ocket Pe orvane nconfine U Triax	(ksf) enetrom ed Comp ial Com	pression	n n
	0-		1 foot cor	ncrete slab					П					1	4		
-	-		(baserock	k) . AY (CL) stiff, moist, black,	rown sandy grav		GP CL							9		(4)	
-	-				y silty clay mottle	-d	CL	-	Н								
-	5-		Light gray	silty clay, bleach	hed?		CL	1	П					i			
	-		brown gra	ay, silt 25%		_	CL							14 14	a	3	
	10-		Bottom o	f Boring at 8 feet		_											
	-					-						ō					
	15- - -					-								80.00			
	20-					_											
u.	-												200		3		
	25					190											9
GF GF	25-					-											
	30-	1				_	1								-:-		
	20111	DIA	TED ODGE	DVATIONS:												لــــــا	L
S G			ATER OBSEI E GROUND	RVATIONS: WATER ENCOUN	TERED												

ı				EXPLORATORY	BORI	ING	: E	B	-18	3		5	Sheet	1 0	of 1	
1	DRILL	. RIG	: VI	IRONEX	PROJECT	NO:	1731-2	2A								
	BORII	NG T	YPE:	: DIRECT PUSH	PROJECT	: GLA	ASCOC	CK	STR	EET	•					
1	LOGG	ED E	BY:	CM	LOCATIO	N: OA	KLAN	D,	CA							
	STAR	T DA	TE:	10-2-01 FINISH DATE: 10-2-01	COMPLET	TION D	EPTH	: 8	.0 F	Τ	Ţ					
				This log is a part of a report by Lowney Associates, and should not be u stand-alone document. This description applies only to the location of the	exploration						ပ္	U	ndraine	d Shear (ksf)	Strengt	th
١	N O	I	END	at the time of drilling. Subsurface conditions may differ at other locations change at this location with time. The description presented is a simplifi actual conditions encountered. Transitions between soil types may be	ication of	끭	NCE (8	18E	YII.	4.SSIN IEVE	_	ocket Pe	enetron	neter	
	ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND			SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	200 S	20000	orvane	- 000 1120 000 117		
1	П		SO	MATERIAL DESCRIPTION AND REMAI	RKS	Š	N N N N	S	ĕġ	DR	PERCENT PASSING NO. 200 SIEVE		nconfine -U Triax			
	_	0-		SURFACE ELEVATION:							В.	A05539 55-		.0 3		
ı				GRAVELLY CLAY (GC) [Baserock] silty, gravel soil	_	GC										1
	_													1		
		-		SILTY CLAY (CL) silt 10-15%, minor debris, red brick fragments, spots	rusty -	CL							8			
	-	-		SILTY CLAY (CL)			1									
		5-		stiff, moist, gray-green, 25-35% silt, 15% sand minor rock fragments	, mottled, –	1100000								1		
		-			_	CL							1			
	_															
		_		Bottom of Boring at 8 feet	_											
		10-			_											
		-			_											
		-	-		_											
		-	-		_											
		-			-							-				
		15-	-		_									-		
		-			_											
1		-			-											
		-			_											
		-			-											
		20-	1		_											1
		.			-					90						
					_											
		25-			V											
																4
8		_														
MV*E		-			_											
73/01		-	4		_											
T 10/		30-	1			-						ļ.,		i		
CORP.GDT 10/23/01 MV* EB													3	2		
LA COF	GF			ATER OBSERVATIONS: EE GROUND WATER ENCOUNTERED												

			EXPLORATORY	BOR	ING	: E	B	-19	9		5	Sheet	t 1 c	of 1	
DRILL	RIG	: VII	RONEX	PROJECT			_								
BORI	NG T	YPE:	DIRECT PUSH	PROJECT	T: GLA	ASCOC	CK	STR	EET	-					
LOGG				LOCATIO	N: OA	KLAN	D,	CA							
STAR	TDA	TE:	10-2-01 FINISH DATE: 10-2-01	COMPLE	TION D	EPTH	: 8	.0 F	Τ.		,				
ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	This log is a part of a report by Lowney Associates, and should not be a stand-alone document. This description applies only to the location of the at the time of drilling. Subsurface conditions may differ at other location change at this location with time. The description presented is a simplificatual conditions encountered. Transitions between soil types may be MATERIAL DESCRIPTION AND REMA SURFACE ELEVATION:	exploration s and may fication of gradual.	SOIL TYPE	PENETRATION RESISTANCE (BLOWS/FT.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE	O P Δ T 0 U Δ U	ocket Proprietation of the confiner of the con	d Sheai (ksf) enetrorred ed Com kial Corr	neter pressio	n
	0-		GRAVELLY CLAY (GC) silty, gravel soil	-	GC										
	-		4-5 inches asphalt like material, black asphalt and rock fragments, gravel SILTY CLAY (CL) stiff, moist, black, with debris, fragments, rusty brick		CL		•					2			
_	5-		SILTY CLAY (CL) stiff, moist, gray-greenish, transition zone miss some rock fragments, minor sandy intervals, s 25-30%, 15% sand	sing, silt –	CL							*			1000
	-		Bottom of Boring at 8 feet	<u>-</u>						-					
	10-			_								- 4			
	-			-								0		ia .	3
	15-			-							-			-	
	-			0								.80			
	20-		4	-										٠	
	-			_											
	25-			0= 0=								ir I			
	-			-								25	#80	2	
GF	30-			_										1	
											13			-	
GF			TER OBSERVATIONS: E GROUND WATER ENCOUNTERED												

			EXPLORATORY	BORI	NG	: E	B	-20)	9	S	heet	1 o	f 1_	
DRILL	RIG:	VII	RONEX	PROJECT	NO:	1731-2	2A								
BORII	NG TY	PE:	DIRECT PUSH	PROJECT	: GLA	scoc	K	STR	EET						
LOGG	ED B	Y: (CM *	LOCATION	N: OA	KLAN	D,	CA							
STAR	T DA	ΓE:	10-2-01 FINISH DATE: 10-2-01	COMPLET	ION D	EPTH:	: 8	.0 F	Γ						
			This log is a part of a report by Lowney Associates, and should not be stand-atone document. This description applies only to the location of the at the time of drilling. Subsurface conditions may differ at other location:	exploration						စ္ခ			d Shear (ksf)		.h
NOI.	E_	SOIL LEGEND	change at this location with time. The description presented is a simplif actual conditions encountered. Transitions between soil types may be	ication of	YPE	PENETRATION RESISTANCE (BLOWS/FT.)	LER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PASSING NO. 200 SIEVE			enetrom	eter	
ELEVATION (FT)	DEPTH (FT)	JIL LE	MATERIAL DESCRIPTION AND DEMA	DIVO	SOIL TYPE	NETR SSIST, LOWS	SAMPLER	NOIST	Y DEI	ENT 200	△ To		ed Comp	oression	n
ш		SC	MATERIAL DESCRIPTION AND REMA	KKS	V)	58.6		28	R	PERC	_		ial Com		
_	0-	, U	SURFACE ELEVATION: GRAVEL (GP)								1.	0 2.	0 3.	0 4.	0
	-	30	loose, dry, baserock, 30-40% orange sand	-	GP							11			
-	-	m	SILTY CLAY (CL)		CL	-									
=	-		black, with two 2 inches layers of asphalt, min rock fragments, coarse sand, red brick fragments	or debris, -	CL		П						*		10-11
-	_			ents											
	5		SILTY CLAY (CL) stiff, moist, green-gray, silt 25-30%, minor san	d, minor			Ц						i		
	-		rock fragments	1	CL							62	.80		1 2
	-			1											
			Bottom of Boring at 8 feet												
	10-														
	"-			_											
	_			4											
	-			-											
	-			-									4		
	15-			-	81										
	-			-											
	-												2		
	-		76	-											
	20-														
	20-			1									,		
	_			_											
	_			_											
	-			-											
	25-													i	-
	-			_										24	
	-			-							a.				
	-			-											
	-			Ë											
Gl	30-			_							-				
GI	ROUN	D WA	ATER OBSERVATIONS:		I	1	1				1 3	L	L		1
	NO	FRE	E GROUND WATER ENCOUNTERED												