PROJE	DJECT: MJB North Yard Anacortes, Washington				Boring Log Explanation							
BORIN	G LOC	ATIO	N:	· · ·			ELEVAT	'ION AN		Л:		
DRILLI	NG CC	NTR/	ACT	OR:			DATE S	TARTE	D:		DATE FINIS	SHED:
DRILLI	NG ME	THO	D:				TOTAL [DEPTH	(ft.):		MEASURIN	g point:
DRILLI	NG EC	UIPM	1EN1	Г:			DEPTH ⁻ WATER		FIRST		COMPL.	24 HRS.
SAMPL	ING M	IETHO	DD:				LOGGEI	D BY:				
HAMM	ER WE	EIGHT	Γ:			DROP:	RESPON	NSIBLE	PROFES	SION	IAL:	REG. NO.
DEPTH (feet)	DEPTH (feet) No. Food (ppm) (ppm)			OVM READING (ppm)		DESCRIPTION IAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.				RE	EMARKS	
	Sa	Sa	ā Ľ	RE		Surface Elevation:			$\left \right $			
_						Notes				$\left - \right $		
1-						Soil descriptions are in accordance with the by ASTM D2488-90 "Standard Practice for Identification of Soils (Visual-Manual Proced	Descripti			_		
2-					2.	Soil color described according to Munsell Co	olor Cha	irt.		_		
3-						Dashed lines separating soil strata represen boundaries between sampled intervals that gradual transitions.			or	-		
4- - 5-						Solid lines represent approximate boundarie sample intervals.	es observ	ved wit	hin	-		
						OVM = organic vapor meter, reading in volu million. Reading collected from baggie head		arts pe	er	_		
6-						Odor, if noted is subjective and not necessa specific compounds or concentrations.	rily indica	ative o	f	_		
7-					7.	NA = Not applicable.				$\left - \right $		
8-					8.	ND = No data.				_		
9-												
-	TP-1-9.0	m			Gra	ab soil sample.				_		
10-					Inte	erval of recovered soil collected with split spo	on samr	olor		_		
11-		\square			inte		John Samp	pici.		_		
- 12-					Inte	erval of recovered soil collected with direct p	ush liner.			_		
-										$\left - \right $		
13-	PP-1-13.0				Sa	mple collected for chemical analysis and san	nple ider	ntificati	on.			
14-	<u>а</u>				Inte	erval of no recovery.				$\left - \right $		
-		\square				-				$\left - \right $		
15-				72	Geom	atrix Consultants		Proie	ect No. 101		00	KEYFORM (REV. 7/99) Page 1 of 1

Anacortes, Wa	ırd ashington	Log of Well No. MW-5
	4363.38; E 1210473.92	GROUND SURFACE ELEVATION AND DATUM: 12.80 feet MLLW
DRILLING CONTRACTOR: (Cascade Drilling, Inc.	DATE STARTED: DATE FINISHED: 7/14/05 7/14/05
DRILLING METHOD: Hollo	w-stem auger	TOTAL DEPTH (ft.): SCREEN INTERVAL (f 21.5 4.22 to 14.0
DRILLING EQUIPMENT: C	ME-75	DEPTH TO FIRST COMPL. CASING: WATER: ~8.5 NA 2" Sched. 40 PVC
SAMPLING METHOD: SPT	split spoon drive sampler [18" x 2.5"]	LOGGED BY: Z. Satterwhite
AMMER WEIGHT: 300 por	unds DROP: 30	RESPONSIBLE PROFESSIONAL: REG. NO K. Goodman L.Hg. 178
DEPTH (feet) (feet) No. Sample Foot COVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density cementation, react. w/HCl, geo. inter.	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Surface Elevation: 13.42 feet MLI POORLY GRADED GRAVEL with SILT and S (GP-GM): very dark grayish brown (10YR 3/2 to moist, 65% fine to coarse gravel, 25% fine coarse sand, 10% nonplastic fines, subangula angular, contains cobbles up to 1' diameter, g fine-grained dark gray rock POORLY GRADED SAND with GRAVEL (SP brown (10YR 4/3), moist, 50% fine to coarse 45% fine to coarse subrounded to rounded gr 5% fines, contains round cobbles up to 4" dia POORLY GRADED SAND with SILT and GR/ (SP-SM): very dark greenish gray (10Y 3/1), 50% fine to coarse sand, 40% fine to coarse subrounded to rounded gravel, 10% nonplasti	SAND (2), dry to ar to gravel is): sand, ravel, meter , moist,
8- 9- 10- 11- 11- 12- 13- 14-	PEAT with SAND (PT): dark brown mottled y brown (10YR 3/3), wet, 85% fines, 15% fine s nonplastic, firm, woody peat with interbeds of gray fine sand, sulfitic odor wet	sand, dark
		Schedule 40 PVC
15		endcap

PROJE				rth Ya es, Wa	rd ashington	Log of W	f Well No. MW-5 (cont'd)				
DEPTH (feet)	Sample No.	Sample H	Blows/ Sa Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, geo	t. density, structure, p. inter.	DET	CONSTRUCTION FAILS AND/OR LING REMARKS			
	MW-5-15.0		4 5 9 N=14		SILT with SAND (ML): dark greenish brown and yellowish-brown (10GY 4/ 75% fines, 25% fine to coarse sand, lo firm, contains pockets of dark gray fine white shell fragments to 15.5'	1), moist to wet, ow plasticity,	- 2/12 filte	r pack sand			
- 18- -	-			-	becoming firmer and blocky; less sand	t	Bentonit	e chips			
19- - 20- -	MW-5-20.0		10				*Pull aug feet.	gers up about 12			
21- - 22- -	WM-5		12 13 23 N=36	-	Bottom of boring at 21.5 feet.						
23- - 24-	-										
25- - 26-	-						-				
- 27- - 28-	-										
- 29- - 30-	-						-				
30- - 31- -							-				
32- - 33-	-						-	OAKWELLV (REV. 4/00)			
			/	\sim	Geomatrix Consultants	F	Project No. 10131.000	Page 2 of 2			

DRING LOCATION: N 554768.47; E 1210309.42 GROUND SUFFACE ELEVATION NOT DATUM: 13.04 feet MLLW SILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: 7/14/05 DATE FINISHED 7/14/05 SILLING METHOD: Hollow-stem auger TOTAL DEFTH 21.5 DEFTH 22.5 SILLING EQUIPMENT: CME-75 DEPTH 22.5 CMEL MMER WEIGHT: 300 pounds DROP: 30 inches CMESCREPTION 2.5 SAMELES DROP: 30 inches CMESCREPTION 2.5 SAMELES ESCREPTION (USCS): color, most, %L pvit, plast density mucture, cententiano, nect, whici Qao, inter. VELLING ROWENSIELE PROFESSIONAL: SAMELES ESCREPTION (QP-GM): very dark grayish brown (10/R 3/2), dry, BS% fire to coarse gravel. 3% fine to coarse sand, 0.000Es up to 1' diameter, gravel is fine grained dark yrock WELLING REMARKS POORLY GRADED GRAND with SLT and GRAVEL (SP-SM): greenish black (10/2 2.61), most, 50% fine to coarse sand, 0.000Es up to 1' diameter, gravel is fine grained dark yrock Bentonite chips POORLY GRADED SAND with SLT and GRAVEL (SP-SM): greenish black (10/2 2.61), most, 50% fine to coarse sand, 0.000Es up to 1' diameter, gravel is fine grained dark yrock POORLY GRADED GAND with SLT and GRAVEL (SP-SM): greenish black (10/2 2.61), most, 50% fine to coarse sand, 0.000ErUC GRADED GAND with SLT and GRAVEL (SP-SM): greenish black (10/2 2.61), most, 50% fine to coarse sand, 0.000ErUC GRADED GAND with SLT and GRAVEL (SP-SM): greenish black (10/2 4.71), most, 50% fine to coarse gravel, 5% fine grave, contains reddish rootlets/seams, low plasticit, firm to hard POORLY GRADED GAND Image: State and	ROJECT: MJB North Y Anacortes, W		Lo	Log of Well No. MW-6				
MULING CONTRACTOR: Cascade Dnilling, Inc. 7/14/05 7/14/05 SILLING METHOD: Hollow-stem auger 21.5 SCREEN INTERVAL, IT, 4/2.00 FL, 4	RING LOCATION: N 5	54768.47; E 1210309.42			ION AND DATUM:			
ALLING EQUIPMENT: CME-75 21.5 4.20 to 14.0 SMMER WEIGHT: 300 pounds DROP: 30 inches VarTex: -10 NA 2" Sched. 40 PVC MMRR WEIGHT: 300 pounds DROP: 30 inches RESPONSIBLE PROFESSIONAL: K. Goodman RESPONSIBLE PROFESSIONAL: K. Goodman RESPONSIBLE PROFESSIONAL: L.H.g. 178 SMMERWEIGHT: 300 pounds DROP: 30 inches RESPONSIBLE PROFESSIONAL: K. Goodman RESPONSIBLE PROFESSIONAL: L.H.G. 178 REG. NO. K. Goodman SMMERWEIGHT: 300 pounds DROP: 30 inches NAME USSC: color, most, % by w. plast density, structure. commention, read. wHO.go inter. WELL CONSTRUCTION DETAILS AND/OR GP-CMI: very dark grayish brown (10YR 3/2), dry, GS% fine to coarse gravel, 35% fine to coarse sand, 10% nonplastic fines, subangular to to coarse sand, 45% fine to coarse gravel, 35% nonplastic fines, vobbles up to 1' diameter, GP-CRI.Y GRADED SAND with GRAVEL (SP): brown (10YR 4/3), moist, 50% fine to coarse sand, 45% fine to coarse gravel, 35% nonplastic fines, very slight mothball-like dodr POORLY CRADED SAND with SLT and GRAVEL (SP-SM): greenish black (10Y 2.5'1), moist, 50% fine to coarse gravel, 0% nonplastic fines, coarse gravel, 10% nonplastic fines, fines, 10% fine sand, 5% fine gravel, conalins reddish nooletis/seams, low plasticity, firm to hard PORLWERV 4	RILLING CONTRACTOR:	Cascade Drilling, Inc.	7/14/05	7/14/05 7/14/05				
AlLING EXDIPMENT: CME-/5 WATER: -10 NA 2" Sched. 40 PVC MMRLING METHOD: SPT split spoon drive sampler [18" x 2.5"] COGGED BY: Z. Satterwhite RESONSIBLE PROFESSIONAL: REG. NO. K. Goodman RESONSIBLE PROFESSIONAL: LHg. 178 MMRER WEIGHT: 300 pounds DROP: 30 inches K. Goodman WELL CONSTRUCTION SAMMELES Bescher TroN WELL CONSTRUCTION WELL CONSTRUCTION SAMMELING, REMARKS. DROP: 30 inches K. Goodman WELL CONSTRUCTION SAMMELING, REMARKS. POORLY GRADED GRAVEL with SILT and SAND DROPCHO: servit alray and park density, structure, cementation, read: wHCl. goin inter. Traffic Box COORLY GRADED SAND with GRAVEL (SP): brown (10/YR 4/3), moist, 50% fine to coarse sand, '9% subrounded to rounded don' gravel. 5% fine to coarse sand, '9% subrounded to rounded fine, to coarse gravel. 5% fine to coarse sand, '9% subrounded to rounded fine, to coarse gravel. 7% nonjastic fines, occasional cobles up to 1" in diameter mothball-like odor POORLY GRADED SAND with SILT and GRAVEL (SP): brown (10/YR 4/3), moist, 50% fine to coarse sand, 40% subrounded to rounded fine to coarse gravel. 1% nonjastic fines, cocasional cobles up to 4" in diameter mothball-like odor PVC casing 9 Image: Subredue to the coarse sand, 40% subrounded to rounded fine, to carse gravel. 1% nonjastic fines, cocasional cobles up to 4" in diameter mothball-like odor Traffic Box 10 Image: Subredue 40 PVC screen SILT with SA	RILLING METHOD: Holl	ow-stem auger	21.5	. <i>.</i>	4.20 to 14.0			
AMACLING METHOD: SP1 spin spon on two sampler [18 x 2:5] Z. Satterwhite MMER WEIGHT: 300 pounds DROP: 30 inches RESPONSIBLE PROFESSIONAL: REC. NO. MMERWEIGHT: 300 pounds DESCRIPTION RESPONSIBLE PROFESSIONAL: LHg. 178 SamPler [18 x 2:5] DESCRIPTION WELL CONSTRUCTION DESCRIPTION SamPler [18 x 2:5] DESCRIPTION WELL CONSTRUCTION DESCRIPTION Sampler [18 x 2:5] DESCRIPTION NMME (USCS): color molet, 5 by wt. plest density, structure. DESCRIPTION Sampler [18 x 2:5] DESCRIPTION NUME (USCS): color molet, 5 by wt. plest density, structure. DESCRIPTION Sampler [18 x 2:5] DESCRIPTION NUME (USCS): color molet, 5 by wt. plest density, structure. DESCRIPTION Sampler [18 x 2:5] DESCRIPTION NUME (USCS): color molet, 5 by wt. plest density, structure. DESCRIPTION Sampler [18 x 2:5] DESCRIPTION NUME (USCS): color molet, 5 by wt. plest density, structure. DESCRIPTION POORLY GRADED SAND with SILT and SAND DESCRIPTION DESCRIPTION DESCRIPTION Sampler [18 the color seg gravel, 10 wontplastic fines, soccasional color seg gravel, 1	RILLING EQUIPMENT: (CME-75	WATER: ~1					
SMMER Welch 300 PCP 30 InCres K. Goodman L.Hg. 178 SMMER SMMER DESCRIPTION WELL CONSTRUCTION DESCRIPTION SMMER Sufface Elevation: 13.42 feet MLLW WELL CONSTRUCTION DETAILS AND/OR POORLY GRADED GRAVEL with SLT and SAND POORLY GRADED GRAVEL with SLT and SAND Traffic Box Comment Concrete Statace Elevation: 13.42 feet MLLW Traffic Box POORLY GRADED GRAVEL with SLT and SAND POORLY GRADED SAND with GRAVEL (SP): Traffic Box Cooles up to 1 diameter, gravel is fine-grained dark POORLY GRADED SAND with GRAVEL (SP): Bentonite chips SMMER Signature POORLY GRADED SAND with GRAVEL (SP): Bentonite chips Drown (10VR 4/3), moist, 50% fine to coarse gravel, 5% fine to coarse gravel, 5% fine to coarse gravel, 5% Signature SMMER POORLY GRADED SAND with SLT and GRAVEL PVC casing Very slight mothball-like odor ** diameter 2* diameter, 0.010* slot, 5% Signature Signature Schedule 40 PVC screen Signature	MPLING METHOD: SP	F split spoon drive sampler [18" x 2.5"]	Z. Satterwhi					
Big of all and all all and all					L.Hg. 178			
PORLY GRADED GRAVEL with SILT and SAND (GP-GM): very dark grayish brown (10YR 3/2), dry, GP-GM): very dark grayel, 5% nonplastic fines, subrounded to rounded fine to coarse gravel, 10% nonplastic fines, occasional cobbies up to 4' in diameter mothball-like odor very slight mothball-like odor very slight mothball-like odor very slight mothball-like odor very slight mothball-like odor very slight roothes/seams, low plasticity, firm to hard Downeuv (IDC) 4 (DVC screen sedish rootlets/seams, low plasticity, firm to hard DOWNEUV (IBEV.4) DOWNEUV (IBEV.4) DOWNEUV (IBEV.4)		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter.	y, structure,					
1 1	0) 0) -		- 20					
3 4 5 5 6 2" diameter Schedule 40 5 9 9 9 9 9 9 9 9 9 10	1 - 34 25 N=59	(GP-GM): very dark grayish brown (10YR 3 65% fine to coarse gravel, 25% fine to coars 10% nonplastic fines, subangular to angular, cobbles up to 1' diameter, gravel is fine-grain <u>gray rock</u>	/2), dry, e sand, contains / ned dark /		Concrete			
Schedule 40 PVC screen *Driller: water at about 10 - 10 - 10 - 11 - 12 - 12 - 14 - 13 - 14 - 14 - 15 - 14 - 15 - 14 - 15 - 16 - 17 - 17 - 17 - 18 - 19 - 19 - 10 - 1	4- 5- 0 ⁵ .9 _{.9} M 6- -	brown (10YR 4/3), moist, 50% fine to coarse 45% fine to coarse gravel, 5% nonplastic fine subrounded to rounded, contains round cobt <u>4" diameter</u> POORLY GRADED SAND with SILT and GF (SP-SM): greenish black (10Y 2.5/1), moist fine to coarse sand, 40% subrounded to roun to coarse gravel, 10% nonplastic fines, occar cobbles up to 4" in diameter mothball-like odor	e sand, es, /	2	2" diameter Schedule 40			
11 5 12 10.0' at 10:45 AM 12 14 2/12 filter pack sand 12 SILT with SAND (ML): dark greenish gray mottled brown and yellowish-brown (10GY 4/1), moist, 85% fines, 10% fine sand, 5% fine gravel, contains reddish rootlets/seams, low plasticity, firm to hard -	9-			· F-4. · · I				
12 SILT with SAND (ML): dark greenish gray mottled brown and yellowish-brown (10GY 4/1), moist, 85% fines, 10% fine sand, 5% fine gravel, contains reddish rootlets/seams, low plasticity, firm to hard 13	- 00 00 00 00 00 00 00 00 00 00	less silty, wet, no odor			10.0' at 10:45 AM			
15 OAKWELLV (REV. 4/	12- - 13- -	brown and yellowish-brown (10GY 4/1), mot fines, 10% fine sand, 5% fine gravel, contain	st, 85%					
OAKWELLV (REV. 4/				• • • • • • • •	enacap			
Geomatrix Consultants Project No. 10131.000 Page 1 of 2	15			• . • . •	OAKWELLV (REV. 4/0			

ROJE				th Yaro s, Was	hington	Log of Well N	Log of Well No. MW-6 (cont'd)				
UEPTH (feet)	Sample No.	Sample Blows/	Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. c cementation, react. w/HCl, geo. i	density, structure, nter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS				
 16 17	MW-6-15.0	N	9 13 19 I=32		SILT with SAND (ML): Continued		2/12 filter pack sand				
18- 19- 20- 21-	MW-6-20.0		10 10 20 I=30				Bentonite chips				
22- 23- 24- 25-		N	20 I=30		Bottom of boring at 21.5 feet.						
_ 26 - 27 - 28 - _											
29- - 30- - 31-											
- 32- - 33-											
				<u>~</u>	Geomatrix Consultants	Project No	0. 10131.000 Page 2 of 2				

PROJECT: MJB North Yar Anacortes, Wa		Log	of Wel	No. MW-7			
BORING LOCATION: N 55	5056.70; E 1209849.95	GROUND SURF. 12.98 feet ML		ION AND DATUM:			
DRILLING CONTRACTOR: (Cascade Drilling, Inc.	DATE STARTED 7/14/05		DATE FINISHED: 7/14/05			
DRILLING METHOD: Hollow	w-stem auger	TOTAL DEPTH (16.5	4.21 to 14.0				
DRILLING EQUIPMENT: CN	ME-75	DEPTH TO FIRS WATER: NA	ST COMPL.	CASING: 2" Sched. 40 PVC			
SAMPLING METHOD: SPT	split spoon drive sampler [18" x 2.5"]	Z. Satterwhite		AL: REG. NO.			
HAMMER WEIGHT: 300 pou		K. Goodman		L.Hg. 1786			
DEPTH (feet) No. Blows/ Foot Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, cementation, react. w/HCl, geo. inter.	structure,		WELL CONSTRUCTION DETAILS AND/OR			
0) 0)	Surface Elevation: 13.24 feet MLL	N		DRILLING REMARKS			
1- 50 for 6" 2-	POORLY GRADED GRAVEL with SILT and S (GP-GM): very dark grayish brown (10YR 3/2 65% fine to coarse gravel, 25% fine to coarse 10% nonplastic fines, subangular to angular, c cobbles up to 1' diameter, gravel is fine-graine gray rock), dry, sand, ontains		raffic Box Concrete Bentonite chips 8" diameter borehole			
3- 0;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	ORGANIC SOIL (OL): dark brown to black (1 2/1), moist, 80% fines, 20% fine to coarse sam contains woodshards, nonplastic, soft, woody SILT with SAND (ML): dark greenish gray mo brown and yellowish-brown (10GY 4/1), moist fines, 25% fine to coarse sand, low plasticity, s firm, contains dark brown rootlets, also contain inclusions of green mica/metallic sand	I,	· · ·	2" diameter Schedule 40 PVC casing			
8- 9- 10- 11- 11- 9 9			⊢	2" diameter, 0.010" slot, Schedule 40 PVC screen			
11 - ¹ / ₂ 9 11 - ¹ / ₂ 9 11 - 11 N=17 12 13 14				2/12 filter pack sand Schedule 40 PVC			
15			• · · · · · · · · · • • • • • • • • • •	endcap			
15	Geomatrix Consultants	Project	: No. 10131.00	OAKWELLV (REV. 4/00) 0 Page 1 of 2			

ROJE		MJB No Anacort		d shington	Log of Well	Log of Well No. MW-7 (cont'd)				
DEPTH (feet)	Sample No.	Sample Blows/ Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. o cementation, react. w/HCl, geo. i	density, structure, nter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS				
_ 16-	MW-7-15.0	6 10 13		SILT with SAND (ML): (continued); becc and brown mottled greenish gray	oming firmer	 2/12 filter pack sand 				
		N=23		Bottom of boring at 16.5 feet.						
17-										
40										
18–										
19-										
19_										
20-										
21-										
22-										
_										
23-										
_										
24-										
_					-					
25-					-					
_										
26-					-					
_										
27-										
					-					
28-					1					
~					1					
29-										
- 30-										
31-										
32-										
_										
33_										
			~~			OAKWELLV (REV. 4/				
			<u> </u>	Geomatrix Consultants	Project	No. 10131.000 Page 2 of 2				

PROJECT:		North Yard ortes, Wash	nington	Test Pit	Log No	o. TP-1
TEST PIT L				ELEVATION AND DATU Not surveyed; datur		surface
EVCAVATIO			Com Marline Construction Company Inc.	DATE STARTED:	DATE F	INISHED:
EXCAVATIO	JN CON	IRACIUR:	Gary Merlino Construction Company, Inc.	7/12/05	7/12/0	
OPERATOR	R:	Kurt Kamiı	JS	TOTAL DEPTH (ft.): 11.0	Groun	RING POINT: d surface
EXCAVATIO	ON EQUI	PMENT: C	Case 580L Backhoe	DEPTH TO FIRST WATER 8.5	COMPL NA	
EXCAVATIO	ON BUCK	KET DIMENS	IONS: 18 inches	LOGGED BY: Z. Satterwhite		
SAMPLING	METHO	D: Rubbe	er-tired backhoe	RESPONSIBLE PROFE	SSIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) Sample O	Sample Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte	sity, structure,		REMARKS
San (f	San	REA O		rveyed	-	
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 14 - 15 - 16 - 17 -			 POORLY GRADED GRAVEL with SILT and Svery dark grayish brown (10YR 3/2), dry, 65% subangular to angular gravel with cobbles up 25% fine to coarse sand, 10% nonplastic fine fine-grained dark gray rock POORLY GRADED SAND with SILT and GR greenish black (10Y 2.5/1), moist, 50% fine t 40% fine to coarse subrounded to rounded gr diameter, 10% nonplastic fines, odor ORGANIC SOIL (OL): dark brown to black (90% fines, 10% fine gravel, nonplastic, firm, or and wood, fluffy like peat, contains brick or re to 3" diameter POORLY GRADED SAND with SILT (SP-SM (10YR 3/1), dry to moist, 85% fine to coarse s nonplastic fines, 5% fine gravel, fluffy/light/as SILTY SAND with GRAVEL (SM): black (10 50% fine to coarse sand, 30% fine subangula gravel, 20% nonplastic fines, contains wood or solved and wood fluffy light fines, contains wood or solved and solved for a solved and solved for a solved fines, 10% fine gravel, low plasticity, firm, coarse sand, 5% fine gravel, low plasticity, firm inclusions of coarse silica sand with gold flakk Bottom of test pit at 11.25 feet. Excavation b cuttings in reverse order to ground surface, a with backhoe bucket. 	% fine to coarse to 1' diameter, s, gravel is AVEL (SP-SM): o coarse sand, ravel up to 6" in 10YR 2/1), moist, contains rootlets d paint gravel up): very dark gray sand, 10% <u>hy, speckled white</u> YR 2/1), moist, ir to subrounded chunks		
- 14-					- -	
-						
15						OAKTESTPIT (REV. 6/03)
			Geomatrix Consultants	Project No. 10	131.000	Page 1 of 1

PROJE	ROJECT: MJB North Yard Anacortes, Washington					Test Pit Log No. TP-2			
TEST F	PIT LO	DCA	FION:			ELEVATION A Not surveye			surface
EXCA	/ATIC	N C	ONTR	RACTOR:	Gary Merlino Construction Company, Inc.	DATE STARTE 7/12/05	ED:	DATE FI 7/12/05	NISHED: 5
OPERA	ATOR	:	K	urt Kami	us	TOTAL DEPTH 9.0		Ground	RING POINT: d surface
EXCA	/ATIC	N E	QUIPI	MENT: (Case 580L Backhoe	DEPTH TO WATER	FIRST NA	COMPL.	
EXCA	/ATIC	N BI	JCKE	T DIMENS	SIONS: 18 inches	LOGGED BY: Z. Satterwhi			
SAMPI				Rubb	er-tired backhoe	RESPONSIBLI K. Goodmai		SIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet)	Sample S No.	Sample IT	ES	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter				REMARKS
	ŝ	Š		R	Surface Elevation: Not sur SILTY GRAVEL with SAND (GM): brown (10	,			
	RI-TP-2-3.5 RI-TP-2-1.0	E. M.			 cobbles up to 1' diameter, 20% fine to coarse nonplastic fines POORLY GRADED SAND with GRAVEL (SP) becoming gray (10YR 4/3), moist, 50% fine to 45% fine to coarse gravel, 5% nonplastic fines rounded, contains round cobbles up to 4" diam ORGANIC SOIL (OL): dark brown to black (190% fines, 10% fine gravel, nonplastic, firm, coand wood, fluffy like peat, contains brick or rect to 3" diameter POORLY GRADED SAND with GRAVEL (SP) 5/1), SILT with SAND (ML): dark greenish gray moyellowish-brown (10GY 4/1), moist, 75% fines coarse sand, 5% fine gravel, low plasticity, firm inclusions of coarse silica sand with gold flake Bottom of test pit at 9.0 feet. Excavation back cuttings in reverse order to ground surface, ar 	 brown coarse sand, subrounded neter 0YR 2/1), moi ontains rootlets d paint gravel u gray (10YR ttled brown an 20% fine to n, contains s (mica?) 	to st, s up		
10-					with backhoe bucket.	la compacted	_		
11-							_	-	
12-							_		
13-							_	-	
14-							_		
15-									
				×>=	Geomatrix Consultants	Proje	ect No. 1013	1.000	OAKTESTPIT (REV. 6/03) Page 1 of 1
							-		

PROJE	ROJECT: MJB North Yard Anacortes, Washington					Test Pit Log No. TP-3			
TEST I	PIT LC	CAT	ION:			ELEVATION AN		s ground surface	
EXCA	/ATIO	N CC	NTR	ACTOR:	Gary Merlino Construction Company, Inc.	DATE STARTE 7/12/05		DATE FINISHED: 7/12/05	
OPER	ATOR		K	urt Kami	us	TOTAL DEPTH 7.0	. ,	MEASURING POINT: Ground surface	
EXCA	/ATIO	N EQ	UIP	MENT: (Case 580L Backhoe	DEPTH TO WATER	FIRST 6.5	COMPL. NA	
EXCA	/ATIO	N BU	ICKE	T DIMENS	IONS: 18 inches	LOGGED BY: Z. Satterwhit			
SAMPI	-ING I	METH	HOD:	Rubb	er-tired backhoe	RESPONSIBLE K. Goodman		ONAL: REG. NO. L.Hg. 1786	
DEPTH (feet)	Sample No.	Sample IT	S	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter			REMARKS	
	S	S		<u>ш</u>	Surface Elevation: Not surveyed POORLY GRADED GRAVEL with SILT and SAND (GP-GM):				
	RI-TP-3-5.0	The second se			 very dark grayish brown (10YR 3/2), dry, 65% subangular to angular gravel, 25% fine to coar nonplastic fines, contains cobbles up to 1' diar fine-grained dark gray rock POORLY GRADED SAND with GRAVEL (SP) 4/3), moist, 50% fine to coarse sand, 45% fine 5% nonplastic fines, subrounded to rounded, or cobbles up to 4" diameter POORLY GRADED SAND with SILT and GRA greenish black (10Y 2.5/1), moist, 50% fine to coarse subrounded to rounded gra cobbles up to 4" diameter, 10% nonplastic fine wet Bottom of test pit at 7.0 feet due to caving. Exbackfilled with cuttings in reverse order to group compacted with backhoe bucket. 	se sand, 10% neter, gravel is : brown (10YF to coarse grav contains round IVEL (SP-SM): coarse sand, avel with rounders	- 		
-							_		
13-							_		
- 14-							_		
-							-		
15-						1		OAKTESTPIT (REV. 6/03)	
					Geomatrix Consultants	Projec	ct No. 10131	.000 Page 1 of 1	

PROJECT: MJB North Yard Anacortes, Was		Test Pit Log No. TP-4			
TEST PIT LOCATION:		ELEVATION AND DATUN Not surveyed; datum			
EXCAVATION CONTRACTOR:	Gary Merlino Construction Company, Inc.	DATE STARTED: 7/12/05	DATE FINISHED: 7/12/05		
OPERATOR: Kurt Kam	ius	TOTAL DEPTH (ft.): 10.5	MEASURING POINT: Ground surface		
EXCAVATION EQUIPMENT:	Case 580L Backhoe	DEPTH TO FIRST WATER 6.5	COMPL. NA		
EXCAVATION BUCKET DIMEN	SIONS: 18 inches	LOGGED BY: Z. Satterwhite			
SAMPLING METHOD: Rubb	er-tired backhoe	RESPONSIBLE PROFES	SIONAL: REG. NO. L.Hg. 1786		
DEPTH (feet) No. Sample No. Sample Sandde Sandde CVM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter	sity, structure,	REMARKS		
	Surface Elevation: Not sur	,			
$ \begin{array}{c} $	 POORLY GRADED GRAVEL with SILT and S very dark grayish brown (10YR 3/2), dry, 65% subangular to angular gravel with cobbles up 25% fine to coarse sand, 10% nonplastic fineer fine-grained dark gray rock POORLY GRADED SAND with GRAVEL (SP 4/3), moist, 50% fine to coarse sand, 45% fine subrounded to rounded gravel with round cob diameter, 5% nonplastic fines silty sand with gravel POORLY GRADED SAND with SILT and GR/ greenish black (10Y 2.5/1), moist, 50% fine to 40% fine to coarse subrounded to rounded gravel with round cob diameter, 10% nonplastic fines matted wood material wet SILT with SAND (ML): dark greenish gray more yellowish-brown (10GY 4/1), moist, 75% fines coarse sand, 5% fine gravel, low plasticity, firrinclusions of coarse silica sand with gold flake Bottom of test pit at 10.5 feet. Excavation bac cuttings in reverse order to ground surface, ar with backhoe bucket. 	b fine to coarse to 1' diameter, s, gravel is b): brown (10YR to coarse boles up to 4" AVEL (SP-SM): o coarse sand, avel up to 6" in ttled brown and s, 20% fine to n, contains s (mica?) kfilled with			
15			OAKTESTPIT (REV. 6/03)		
	Geomatrix Consultants	Project No. 101	31.000 Page 1 of 1		

		North Yard ortes, Wasł		Test Pi	t Log No	o. TP-5
TEST PIT LO				ELEVATION AND DATU		, ,
		· · ·		Not surveyed; datu	m is ground	surface INISHED:
EXCAVATIC	ON CON	TRACTOR:	Gary Merlino Construction Company, Inc.	7/12/05	7/12/0	
OPERATOR	:	Kurt Kami	us	TOTAL DEPTH (ft.):		RING POINT:
				8.5 DEPTH TO FIRST		d surface
EXCAVATIC	ON EQUI	PMENT: C	Case 580L Backhoe	WATER 8.0	NA	
EXCAVATIC		KET DIMENS	NONS: 18 inches	LOGGED BY:		
				Z. Satterwhite RESPONSIBLE PROFE	SSIONAL ·	REG. NO.
SAMPLING	METHO	D: Rubbe	er-tired backhoe	K. Goodman		L.Hg. 1786
DEPTH (feet) Sample S No. b	Sample NPLES	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. den cementation, react. w/HCl, geo. inte			REMARKS
Sa Ca	Sa	R	Surface Elevation: Not su	rveyed		
- 1- - 2- - 3- - 4- - - - - - - - - - - - - -			 POORLY GRADED GRAVEL with SILT and S very dark grayish brown (10YR 3/2), dry to m coarse subangular to angular gravel with cob diameter, 25% fine to coarse sand, 10% nonp gravel is fine-grained dark gray rock POORLY GRADED SAND with GRAVEL (SP 4/3), moist, 50% fine to coarse sand, 45% fine 5% nonplastic fines, subrounded to rounded, cobbles up to 4" diameter POORLY GRADED SAND with SILT and GR greenish black (10Y 2.5/1), moist, 50% fine to d0% fine to coarse subrounded to rounded codiameter, 10% nonplastic fines SILTY SAND with GRAVEL (SM): black (10' wet, 50% fine to coarse sand, 30% fine subar subrounded gravel, 20% nonplastic fines, cor chunks, metal pipe debris, rope, yellow sulfur wood piling (?) Bottom of test pit at 8.5 feet due to caving. E backfilled with cuttings in reverse order to gro compacted with backhoe bucket. 	hoist, 65% fine to bles up to 1' blastic fines, bles up to 1' blastic fines, contains round AVEL (SP-SM): o coarse sand, bbbles up to 6" YR 2/1), moist to ngular to trains wood chunks		
14-						
					-	
15						OAKTESTPIT (REV. 6/03)
			Geomatrix Consultants	Project No. 10	0131.000	Page 1 of 1

TEST PIT LOCATION: ELEVATION AND DATUM: Not surveyed: datatum is ground surface DATE STARTED: DATE STARTED: DESCRIPTION STARTED: DESCRIPTION STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DATE STARTED: DESCRIPTION STARTED: DATE STARTED: DATE STARTE	PROJECT: MJB North Ya Anacortes, Wa		Test Pit	Log No	. TP-6
EXCAVATION CONTRACTOR: Gary Merlino Construction Company, Inc. DATE PINISHED (2012) DATE PINISHED (2012) OPERATOR: Kurt Kamius 10.0 First Ground surface EXCAVATION EQUIPMENT: Case 590L Backhoe WTR 10.0 EXCAVATION NECKET DIMENSIONS: 18 inches Z. Sattervinite SAMPLING METHOD: Rubber-tired backhoe K.G. Sodman EXCAVATION NUCKET DIMENSIONS: 18 inches Z. Sattervinite SAMPLING METHOD: Rubber-tired backhoe K.G. Sodman Figure Stattervinite RESPONSIBLE PROFESSIONAL: L.REG. NO. Figure Stattervinite NAME (USCS) Corr, most, 49 vir, plast density, structure, commanation, read. WHCl, goo. Inter. REMARKS Figure Stattervinite Name (USCS) Corr, most, 49 vir, plast density, structure, commanation, read. WHCl, goo. Inter. REMARKS Figure Stattervinite Name (USCS) Corr, most, 49 vir, plast density, structure, commanation, read. WHCl, goo. Inter. REMARKS Figure Stattervinite Name (USCS) Corr, most, 49 vir, plast density, structure, commanation, read. WHCl, goo. Inter. REMARKS Figure Stattervinite Name (USCS) Corr, most, 49 vir, plast density, structure, commanation, read. WHCl, goo. Inter. REMARKS Figure Stattervinite Name (USCS) Corr, structure, Structure, Structure, Corr, structure, Str		5			
EXAMPLES Gary Merlino Construction Company, Inc. 7/1205 7/1205 OPERATOR: Kurt Kamius 10.0 MEASURINO FONT: Ground surface EXAVATION EQUIPMENT: Case 580L Backhoe WATER 8.0 NA EXAVATION BUCKET DIMENSIONS: 18 inches LOGGED BY: Z. Satterwhile REG. NO. SAMPLIES E					
OPERATOR: Kurt Kamius TOTAL DEPTH (ft): Intervention EXCAVATION EQUIPMENT: Case 580L Backhoe DEPTH TO 1 Intervention EXCAVATION BULKET DIMENSIONS: 18 inches LIGGED BY: Z. Satterwhile NA EXCAVATION BUCKET DIMENSIONS: 18 inches LIGGED BY: Z. Satterwhile NA SAMPLING METHOD: Rubber-tired backhoe RESPONSIBLE PROFESSIONAL: LIGGED BY: Z. Goodman REG. NO. NA Excavation METHOD: Rubber-tired backhoe DESCRIPTION NAME (USCS): cont molt; % by wt, plast density, structure. Cementation, read. WHCl, go. Inter. REMARKS Excavation Method: POORLY GRADED GRAVEL with SLT and SAND (GP-CM): wey dark graysh thrown (107 K32), dry, 50% fine to coarse subangular to angular gravel with cobbles up to 1' diameter. 40% fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse gravel, dry fine to coarse sand, 40% fine to coarse sand, 50% fi	EXCAVATION CONTRACTOR	Gary Merlino Construction Company, Inc.			
EXCAVATION EQUIPMENT: Case 580L Backhoe IDD'T TO WATER FIRST 8.0 COUNTS WATER EXCAVATION BUCKET DIMENSION: 18 inches LOGOED BY: 2. Satterwhite XA EXCAVATION BUCKET DIMENSION: 18 inches LOGOED BY: 2. Satterwhite X. Satterwhite SAMPLING METHOD: Rubber-tired backhoe RESCRIPTION RUBCS X. Sotterwhite EXCAVATION BUCKET DIMENSION: 18 inches LOGOED BY: 2. Satterwhite REARKS EXCAVATION BUCKET DIMENSION: RUBDER-tired backhoe RESCRIPTION RUBCS REARKS EXCAVATION BUCKET DIMENSION: RUBCSCRIPTION RUBCSCRIPTION REARKS EXCAVATION BUCKET DIMENSION: RUBCSCRIPTION REARKS EXCAVATION BUCKET DIMENSION: RUBCSCRIPTION RUBCSCRIPTION EXCAVATION BUCKET DIMENSION: RUBCSCRIPTION RUBCSCRIPTION EXCAVATION BUCKET DIMENSION: RUBCSCRIPTION RUBCSCRIPTION EXCAVATION BUCKET RUBCSCRIPTION RUBCSCRIPTION RUBCSCRIPTION EXCAVATION BUCKET RUBCSCRIPTION RUBCSCRIPTION RUBCSCRIPTION EXCAVAT		mius	TOTAL DEPTH (ft.):	MEASUR	ING POINT:
EXCAVATION EQUIPMENT: Case SSUL Backfroe WATER 8.0 NA EXCAVATION BUCKET DIMENSIONS: 18 inches Z. Satterwhite REG. NO. SAMPLING METHOD: Rubber-lined backhoe RESPONSIBLE PPOFESSIONAL: LHg. 1786 Edge Reg. State Reg. State Reg. NO. K. Goodman LHg. 1786 Edge Reg. State Reg. State Reg. NO. REMARKS REMARKS Poort VATER Reg. NO. REMARKS Remarks 1 Reg. State Reg. State Reg. State Remarks 2 Reg. State Reg. State Reg. State Remarks 3 Reg. State Reg. State Reg. State Remarks 4 Reg. State Reg. State Reg. State Remarks 4 Reg. State Reg. State Reg. State Reg. State 4 Reg. State Reg. State Reg. State Reg. State 4 Reg. State Reg. State Reg. State Reg. State 4 Reg. State Reg. State Reg. State Reg. State 5 Reg. State Reg. State Reg. State Reg. State 6 Reg. State Reg. State Reg. State Re		1103			surface
EXCAVATION BUCKET DIMENSIONS: 18 inches LOGGED BY: 2. Satter/white SAMPLING METHOD: Rubber-tired backhoe RESPONSIBLE PROFESSIONAL: REG. NO. Edging Big B	EXCAVATION EQUIPMENT:	Case 580L Backhoe			
SAMPLING METHOD: Rubber-tired backhoe 2. SatterWinte REG.NO. LHg. 1726 Rubber-tired backhoe RESPONSIBLE PROFESSIONAL: REG.NO. LHg. 1726 SatterWinte RESPONSIBLE PROFESSIONAL: REG.NO. LHg. 1726 SatterWinte REG.NO. RESPONSIBLE PROFESSIONAL: REG.NO. LHg. 1726 SatterWinte REG.NO. REG.NO. REG.NO. SatterWinte SatterWinte REG.NO. REG.NO. SatterWinte SatterWinte REG.NO. REMARKS SatterWinte SatterWinte REMARKS REMARKS SatterWinte DORLY GRADED GRANE With SLT and SAND (0P-GM): Very dark grayish hrown (10YR 32), dry, 50% fine to coarse gravel. 5% nonplastic fines, subrounded to rounded, contains round Cobies up to 4" diameter SILT With SAND (ML): dark greenish back (10Y 2.5/1). Molect 40% fine to coarse sand. 20% nonplastic fines, contains trace Wood shards, motiball-like codor, concrete chunks (1.5 diam), orange rusiy slag chunks at 8.5 (8" diam). twine or rope at 7 Example SILT with SAND (ML): dark greenish gray motited brown and yelowish-brown (10CY 47), moist.75% fines, 20% fine to coarse sand. Silt with santo coarse sand. 20% nonplastic fines, contains trace Silt with SAND (ML): dark greenish gray motited brown and yelowish-brown (10CY 47), moist.75% fines, 20% fine to coarse sand. Silt with santo coarse sand. 40% nonplastic fines, contain				101	
SAMELES SOURCE REMARKS 1 Source Source Source Source Source REMARKS REMARKS 2 Source Source Source Source Source Source Remarks REMARKS 3 Source Source Source Source Source Remarks Remarks 4 Source Source Source Source Source Remarks Remarks 5 Source Source Source Source Source Remarks Remarks 4 Source Sourc	EXCAVATION BUCKET DIVIL	NSIGNS. TO INCHES			
BAMPLES g g g g g g g g g g g g g g g g g g g	SAMPLING METHOD: Rul	bber-tired backhoe		SIONAL:	
1 POORLY GRADED GRAVEL with SILT and SAND (GP-GM): 1 very dark grayish brown (10YR 32), dry, 50% fine to coarse sub-angular to angular gravel with cobbies up to 1 diameter, 40% fine to coarse sand, 10% fines, gravel is fine-grained dark POORLY GRADED SAND with GRAVEL (SP): brown (10YR 4/3), moist, 50% fine to coarse sand, 5% fine to coarse gravel, 5% nonplastic fines, subrounded to rounded, contains round cobbies up to 4" diameter 3 SILTY GRAVEL with SAND (GM): greenish black (10Y 2.5/1), moist, 45% fine to coarse sand, 20% nonplastic fines, contains trace wood shards, mothbal-like odor, concrete churks (1.5* diam), orange rusty slag chunks at 6.5* (6* diam), twine or rope at 7 6 SILT with SAND (ML): dark greenish gray motiled brown and yellowish-brown (10GY 4/1), moist, 75% fines, 20% fine to coarse sand, 3% fine gravel, inclusions of coarse silica sand with gold flakes (mica?) 10 Bottom of test pit at 10.0 feet. Excavation backfilled with cuttings in reverse order to ground surface, and compacted with backhoe bucket. 11 Image: Subargular to subargular and with gold flakes (mica?) 10 Bottom of test pit at 10.0 feet. Excavation backfilled with cuttings in reverse order to ground surface, and compacted with backhoe bucket.	-	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte		F	
2 4 40% fine to coarse sand, 10% fines, gravel is fine-grained dark 3 POORLY GRADED SAND with GRAVEL (SP): brown (10YR 40) moist, 50% fine to coarse sand, 45% fine to coarse gravel, 5% nonplastic fines, southounded to rounded, contains round cobbles up to 4* diameter 3 SILTY GRAVEL with SAND (GM): greenish black (10Y 2.5/1), moist, 45% fine to coarse sand, 20% nonplastic fines, contains trace wood shards, mothball-like odor, concrete chunks (1.5* diam), orange rusty slag chunks at 6.5* (9* diam), twine or rope at 7* 6 0 9 7 4 9 SILT with SAND (ML): dark greenish gray mottled brown and yellowish-brown (10GY 4/1), moist, 75% fines, 20% fine to coarse sand, 5% fine gravel, tow plasticity, firm, contains trace wood shards, mothball-like odor, concrete chunks (inca?) 10 Bottom of test pit at 10.0 feet. Excavation backfiled with cuttings in reverse order to ground surface, and compacted with backhoe bucket. 11 13 13 14 14 14			irveyed		
14	$ \begin{array}{c} 2 \\ - \\ 2 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	 very dark grayish brown (10YR 3/2), dry, 50⁴ subangular to angular gravel with cobbles up 40% fine to coarse sand, 10% fines, gravel is gray rock POORLY GRADED SAND with GRAVEL (SF 4/3), moist, 50% fine to coarse sand, 45% fin 5% nonplastic fines, subrounded to rounded, cobbles up to 4" diameter SILTY GRAVEL with SAND (GM): greenish moist, 45% fine to coarse subangular to subr 35% fine to coarse sand, 20% nonplastic fine wood shards, mothball-like odor, concrete ch orange rusty slag chunks at 6.5' (8" diam), tw SILT with SAND (ML): dark greenish gray m yellowish-brown (10GY 4/1), moist, 75% fine coarse sand, 5% fine gravel, low plasticity, fir inclusions of coarse silica sand with gold flak Bottom of test pit at 10.0 feet. Excavation ba cuttings in reverse order to ground surface, a 	% fine to coarse to 1' diameter, s fine-grained dark ?): brown (10YR e to coarse gravel, contains round black (10Y 2.5/1), ounded gravel, es, contains trace unks (1.5' diam), rine or rope at 7' ottled brown and es, 20% fine to m, contains es (mica?) ckfilled with		
OARTESTPIT (REV. 6/03)					
OARTESTPIT (REV. 6/03)	15				
					OAKTESTPIT (REV. 6/03)

Anacorte	rth Yard es, Wasl		Test Pit	Log No	o. TP-7
TEST PIT LOCATION:	,		ELEVATION AND DATU		
			Not surveyed; datur	n is ground	surface NISHED:
EXCAVATION CONTRA	ACTOR:	Gary Merlino Construction Company, Inc.	7/12/05	7/12/0	5
OPERATOR: Ku	ırt Kami	us	TOTAL DEPTH (ft.): 8.0	Ground	RING POINT: d surface
EXCAVATION EQUIPM	IENT: (Case 580L Backhoe	DEPTH TO FIRST WATER 6.5	COMPL.	
EXCAVATION BUCKET	DIMENS	SIONS: 18 inches	LOGGED BY: Z. Satterwhite		
SAMPLING METHOD:	Rubbe	er-tired backhoe	RESPONSIBLE PROFE	SSIONAL:	REG. NO. L.Hg. 1786
ATTENDES HEADING HE	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. den cementation, react. w/HCl, geo. inter Surface Elevation: Not sur POORLY GRADED GRAVEL with SILT and S very dark grayish brown (10YR 3/2), dry to m coarse subangular to angular gravel with cobb diameter, 25% fine to coarse sand, 10% nonp gravel is fine-grained dark gray rock POORLY GRADED SAND with SILT and GR/ greenish black (10Y 2.5/1), moist, 50% fine to 40% fine to coarse subrounded to rounded gr diameter, 10% nonplastic fines SILTY GRAVEL with SAND (GM): very dark g (10Y 3/1), moist, 50% fine to coarse subrounded	AVEL (SP-SM): o coarse sand, avel up to 6" in greenish gray ded to rounded	- 	REMARKS
4		gravel, 30% medium to coarse sand, 20% nor slight odor, with occasional round cobbles wood lagging ↓ wet, mothball-like odor and sheen Bottom of test pit at 8.0 feet due to caving. Et			
9- - 10- - 11- - 12- - 13- - 14- -		Bottom of test pit at 8.0 feet due to caving. E: backfilled with cuttings in reverse order to gro compacted with backhoe bucket.			
15					OAKTESTPIT (REV. 6/03)

PROJE				orth Yard tes, Was		T€	est Pit	L	og No. ⁻	ГР-8
TEST F	PIT LO)CA	FION:			ELEVATION A Not surveye			around su	rface
EXCA	/ATIO	N C	ONTF	RACTOR:	Gary Merlino Construction Company, Inc.	DATE START	ED:		DATE FINIS 7/12/05	HED:
OPERA	ATOR	:	K	urt Kami	us	TOTAL DEPTI 9.0	H (ft.):		MEASURING	
EXCA	/ATIO	N E	QUIPI	MENT: (DEPTH TO WATER	FIRST 6.5		COMPL.	
EXCA	/ATIO	N BI	JCKE	T DIMENS	CINS: 10 inchoo	LOGGED BY: Z. Satterwh	ite		1	
SAMPI	ING	МЕТ	HOD:	Rubb	er tired backhoe	RESPONSIBL K. Goodma	E PROFES	SSIC	DNAL:	REG. NO. L.Hg. 1786
DEPTH (feet)	Sample No.	Sample ITA	ES	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter.				REM	MARKS
	Sa	Sa		RE	Surface Elevation: Not surv	-			NI-1	
- 1-	RI-TP-8-0.0	M			SILTY GRAVEL with SAND (GM): brown (10) moist, 60% fine to coarse gravel, 20% fine to c nonplastic fines, subrounded to angular, contai 1' diameter	oarse sand, 2	20%	_		alt and white 6" ewer?) pipe to pit.
2-	8-1.5	- M			POORLY GRADED SAND with SILT and GRA greenish black (10Y 2.5/1), moist, 50% fine to 40% fine subrounded to rounded gravel, 10% r	coarse sand,		_		
3-	RI-TP-8-1.5	₩.				·		_		
4-	RI-TP-8-3.5	m			ORGANIC SOIL (OL): dark brown to black (10 90% fines, 10% fine sand, nonplastic, firm, woo top, contains rootlets, becomes brown (7.5YR	od matting on		_		
5-					bottom SILT with SAND (ML): dark greenish gray mot yellowish-brown (10GY 4/1), moist, 75% fines, coarse sand, low plasticity, soft to firm		nd	_	Tin can lid a	it 5 feet.
6-								_		
-								-		
7-										
8-								_		
-								_		
9-					Bottom of test pit at 9.0 feet. Excavation backf cuttings in reverse order to ground surface, and			_		
10-					with backhoe bucket.			-		
 11-										
-								_		
12-								-		
								$\left -\right $		
13-										
14-								_		
								$\left - \right $		
15-				~~~		1				CTESTPIT (REV. 6/03)
				%	Geomatrix Consultants	Proj	ect No. 101	31.	000 P	age 1 of 1

PROJECT: MJB North Yard Anacortes, Washington					Test Pit Log No. TP-9				
TEST F	PIT LC	CAT	TION:		<u> </u>	ELEVATION A			d surface
EXCA	/ATIO	N C	ONTR	ACTOR:	Gary Merlino Construction Company, Inc.	DATE STARTE 7/12/05	ED:	DATE I 7/12/0	FINISHED:)5
OPER	ATOR	:	K	urt Kami	us	TOTAL DEPTH 10.0	H (ft.):		JRING POINT: nd surface
EXCA	/ATIO	N EC	QUIPI	MENT: (Case 580L Backhoe	DEPTH TO WATER	FIRST NA	COMPI NA	
EXCA	/ATIO	N BL	JCKE	T DIMENS	NONS: 18 inches	LOGGED BY: Z. Satterwh			
SAMPI	_ING I	ИЕТ	HOD:	Rubb	er-tired backhoe	RESPONSIBL K. Goodma	E PROFES	SIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet)	SAMPLES DESCRIPTION							REMARKS	
	Sa	Sa		RE	Surface Elevation: Not sur	-		_	
	RI-TP-9-0.0	en s			POORLY GRADED GRAVEL with SILT and S very dark grayish brown (10YR 3/2), moist, 74 gravel, 15% fine to coarse sand, 10% nonplas subangular to angular, contains cobbles up to gravel is fine-grained dark gray rock, contains	5% fine to coal tic fines, 1' diameter,	rse - -	-	
4- - 5- 6-					SILT with SAND (ML): dark greenish gray mo yellowish-brown (10GY 4/1), moist, 75% fines coarse sand, 5% fine gravel, low plasticity, so inclusions of coarse silica sand with gold flake	s, 20% fine to ft, contains	nd - - - -	-	
7							-	_	
_							-	_	
9-							-	-	
 10-					Dettern of the short 40.0 for shirts from the			_	
_					Bottom of test pit at 10.0 feet. Excavation bac cuttings in reverse order to ground surface, ar with backhoe bucket.		-	_	
11-							-	_	
12-							-	-	
- 13-							-	-	
- 14-							-	-	
-							-	-	
15-						I			OAKTESTPIT (REV. 6/03)
				×>=	Geomatrix Consultants	Proje	ect No. 1013	31.000	Page 1 of 1

PROJE			North Yar ortes, Wa		Test Pit	Log No.	TP-10	
TEST	PIT LC	CATIO	ON:		ELEVATION AND DATU Not surveyed; datu	atum is ground surface		
EXCA	/ATIO	N CON	ITRACTOR:	Gary Merlino Construction Company, Inc.	DATE STARTED: 7/12/05	DATE FIN 7/12/05		
OPER	ATOR	:	Kurt Kan	nius	TOTAL DEPTH (ft.): 8.0	Ground	ING POINT: surface	
EXCA	/ATIO	N EQL	JIPMENT:	Case 580L Backhoe	DEPTH TO FIRST WATER 7.5	COMPL.		
EXCA	/ATIO	N BUC		ISIONS: 18 inches	LOGGED BY: Z. Satterwhite			
SAMP	LING I	МЕТНО	DD: Rub	ber-tired backhoe	RESPONSIBLE PROFE	ESSIONAL:	REG. NO. L.Hg. 1786	
DEPTH (feet)	Sample Sample S	Sample	OVM OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter	•	я	REMARKS	
	S	S	<u> </u>	Surface Elevation: Not sur POORLY GRADED GRAVEL with SILT and S	•			
				POORLY GRADED SAND with SILT and Grades very dark grayish brown (10YR 3/2), dry, 65% subangular to angular gravel with cobbles up 25% fine to coarse sand, 10% nonplastic fines fine-grained dark gray rock POORLY GRADED SAND with GRAVEL (SP 4/3), moist, 50% fine to coarse sand, 45% fine 5% nonplastic fines, subrounded to rounded, of cobbles up to 4" diameter	b fine to coarse to 1' diameter, s, gravel is): brown (10YR to coarse gravel, contains round			
	RI-TP-10-6.5			 POORLY GRADED SAND with SILT and GR/ greenish black (10Y 2.5/1), moist, 50% fine to 40% fine to coarse subrounded to rounded gradiameter, 10% nonplastic fines concrete chunk @ west of hole (>4' in diam, le SILTY GRAVEL with SAND (GM): greenish b moist, 40% fine to coarse subangular to subro 35% fine to coarse sand, 25% nonplastic fines wood shards, concrete chunks, orange rusty s and rope, slight mothball-like odor rebar wet Bottom of test pit at 8.0 feet due to caving. Exbackfilled with cuttings in reverse order to grow compacted with backhoe bucket. 	o coarse sand, avel up to 6" in <u>eft in place).</u> lack (10Y 2.5/1), junded gravel, s, contains trace slag chunks, twine			
15-				Geomatrix Consultants	Project No. 10		Page 1 of 1	
L				Geomatrix Consultants		0101.000	1 aye 1 01 1	

	orth Yard rtes, Wasł	nington	Log c	of Boring I	No. PP-1
BORING LOCATION.	N 55518	8.99; E 1210202.95	ELEVATION AND [
	1100010	0.00, E 1210202.00	Not surveyed; of DATE STARTED:		id surface
DRILLING CONTRACT	TOR: Cas	cade Drilling, Inc.	2/9/06	2/9/0	
	Direct n	uob	TOTAL DEPTH (ft.)		SURING POINT:
DRILLING METHOD:	Direct pu		12.0		und surface
DRILLING EQUIPMEN	IT: Powe	r Probe 9630 Pro-D	DEPTH TO WATER	R (ft.) FIRST 4.0	COMPL. NA
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PR K. Goodman	OFESSIONAL:	REG. NO. L.Hg. 1786
0 Sample Sandle Sandle Sandle Sandle Sandle Sangle Blows/ Foot	OVM READING (ppm)		inter.		REMARKS
0°-F-dd 1		POORLY GRADED GRAVEL with SILT ar very dark gray (10YR 3/1), dry, 65% fine to fine to coarse sand, 10% nonplastic fines, s contains cobbles up to 1' diameter, gravel i gray rock SILTY SAND with GRAVEL (SM): brown 55% fine to coarse sand, 30% rounded to coarse gravel, 15% low plasticity fines SILTY GRAVEL with SAND (GM): dark gr 45% fine to coarse subrounded to rounded coarse sand, 25% low plasticity fines wet SILT with SAND (ML): greenish gray mottl (10GY 5/1), moist, 70% fines, 20% fine to o subangular fine to coarse gravel, low plasti trace dark brown rootlets, also contains inc mica/metallic sand Bottom of boring at 12.0 feet. Boring back bentonite chips.	b coarse gravel, 25% subangular to angular, is fine-grained dark (10YR 4/3), moist, subangular fine to ay (10Y 3/1), moist, d gravel, 30% fine to d gravel, 30% fine to ed yellowish brown coarse sand, 10% city, hard, contains clusions of green		
14-					
14-					
14-					OAKBOREV (REV. 3/00)

PROJECT: MJB No Anacorte	rth Yard es, Wasł	lington	Log of B	oring N	lo. PP-2
		0.98; E 1210216.24	ELEVATION AND DATUR Not surveyed; datur		surface
DRILLING CONTRACTO	OR: Cas	cade Drilling, Inc.	DATE STARTED: 2/9/06		FINISHED:
DRILLING METHOD:	Direct pu	ısh	TOTAL DEPTH (ft.): 12.0	MEASU	JRING POINT: nd surface
DRILLING EQUIPMENT	: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST 4.0	COMPL. NA
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite	1.0	
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROFES	SSIONAL:	REG. NO. L.Hg. 1786
	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte Surface Elevation: Not so POORLY GRADED GRAVEL with SILT and S	r. urveyed	_	REMARKS
- 0°°-7°-dd 1		POORLY GRADED GRAVEL with SILT and 3 very dark gray (10YR 3/1), dry, 65% fine to cor fine to coarse sand, 10% nonplastic fines, sub contains cobbles up to 1' diameter, gravel is fi gray rock ✓ wet SILT (ML): gray (10YR 5/1), moist, 90% fines low plasticity, soft → dark brown SILT with SAND (ML): greenish gray mottled (10GY 5/1), moist, 70% fines, 20% fine to coas subangular fine to coarse gravel, low plasticity trace dark brown rootlets, also contains inclus mica/metallic sand Bottom of boring at 12.0 feet. Boring backfille bentonite chips.	yellowish brown urse sand, 10% , hard, contains ions of green		
15					OAKBOREV (REV. 3/00)
	%	Geomatrix Consultants	Project No. 10	131.000	Page 1 of 1

/		Geomatrix Consultants	Project No. 10 ⁻	131.000	Page 1 of 1
		 matted woody fibers Bottom of boring at 12.0 feet. Boring backfilled bentonite chips. 	d with hydrated		OAKBOREV (REV. 3/00)
1- 2- 3- 3- 4- 0.7+c-dd 0.9+c-dd 9- 10- 10- 11- 11- 11- 11-		fine to coarse sand, 10% nonplastic fines, sub- contains cobbles up to 1' diameter, gravel is fir gray rock SILTY SAND with GRAVEL (SM): brown (10) 55% fine to coarse sand, 30% rounded to sub- coarse gravel, 15% low plasticity fines POORLY GRADED SAND with GRAVEL (SP 2/1), moist, 70% fine to coarse sand, 30% fine with wood and brick fragments SILTY SAND (SM): dark gray (10YR 4/1), we coarse sand, 20% low plasticity fines SILTY SAND (SM): dark gray (10YR 4/1), we coarse sand, 20% low plasticity fines SILT (ML): brown (10YR 3/2), moist, 90% fine low plasticity, soft, contains wood SILT (ML): brown (10YR 3/2), moist, 90% fine low plasticity, soft, contains wood	ne-grained dark YR 4/3), moist, angular fine to): black (10YR to coarse gravel, it, 80% fine to es, 10% fine sand, mottled yellowish ed fine to coarse brown rootlets,		
PP-3-0.0 Sample Blows/ Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter Surface Elevation: Not su POORLY GRADED GRAVEL with SILT and S very dark gray (10YR 3/1), dry, 65% fine to co	irveyed SAND (GP-GM):	_	REMARKS
HAMMER WEIGHT:	NA	DROP: NA	Z. Satterwhite RESPONSIBLE PROFES K. Goodman	SSIONAL:	REG. NO. L.Hg. 1786
SAMPLING METHOD:		r Probe 9630 Pro-D bbe macro-core sampler [4' x 1.5"]	DEPTH TO WATER (ft.)	4.0	NA
	Direct p		TOTAL DEPTH (ft.): 12.0		RING POINT: d surface COMPL.
DRILLING CONTRACT	OR: Cas	scade Drilling, Inc.	DATE STARTED: 2/9/06	DATE F 2/9/06	INISHED:
BORING LOCATION:	N 55516	99.00; E 1210202.19	ELEVATION AND DATUM Not surveyed; datur		surface
	orth Yard tes, Wasl	nington	Log of B	oring N	o. PP-3

	orth Yard tes, Wasł	nington	Log of	Boring N	o. PP-4
BORING LOCATION	N 55518	80.06; E 1210192.78	ELEVATION AND DAT		_
	11 00010	0.00, E 1210102.70	Not surveyed; dat		
DRILLING CONTRACT	OR: Cas	scade Drilling, Inc.	DATE STARTED: 2/9/06	2/9/06	
DRILLING METHOD:	Direct p	ush	TOTAL DEPTH (ft.): 12.0		RING POINT: d surface
DRILLING EQUIPMEN	T: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft	FIRST	COMPL. NA
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROF	ESSIONAL:	REG. NO.
SAMPLES SAMPLES SAMPLES Image: second	Û	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. du cementation, react. w/HCl, geo. in	ter. surveyed I SAND (GP-GM): coarse gravel, 25% ubangular to angular, fine-grained dark IOYR 4/3), moist, ubangular fine to dark brown (10Y d, low plasticity, soft, d low plasticity, soft, d low plasticity brown (10GY 5/1), arse gravel, low otlets, also contains		L.Hg. 1786
- 13- - 14-		bentonite chips.			
1				-	
15					OAKBOREV (REV. 3/00)
		Geomatrix Consultants	Project No.		Page 1 of 1

PROJECT: MJB N Anaco	orth Yard rtes, Wasł	nington	Log of	Boring No). PP-5
		0.416; E 1210202.96	ELEVATION AND DAT		urface
		cade Drilling, Inc.	Not surveyed; date DATE STARTED:	DATE FI	NISHED:
			2/9/06 TOTAL DEPTH (ft.):	2/9/06	
DRILLING METHOD:	Direct p	ush	12.0	Ground	surface
DRILLING EQUIPMEN	IT: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft	.) FIRST ~8.0	COMPL. NA
SAMPLING METHOD	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		·
HAMMER WEIGHT:	NA	drop: NA	RESPONSIBLE PROFI	ESSIONAL:	REG. NO. L.Hg. 1786
HLdd (iee) A	OVM COVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast cementation, react. w/HCl, geo Surface Elevation: M POORLY GRADED GRAVEL with SILT a very dark gray (10YR 3/1), dry, 65% fine fine to coarse sand, 10% nonplastic fines contains cobbles up to 1' diameter, gravel gray rock SILTY SAND with GRAVEL (SM): brown 55% fine to coarse sand, 30% rounded to coarse gravel, 15% low plasticity fines POORLY GRADED SAND with SILT and very dark greenish gray (10Y 3/1), moist, sand, 40% fine to coarse subangular to at plasticity fines SILTY GRAVEL with SAND (GM): dark g 45% fine to coarse subrounded to rounde coarse sand, 25% low plasticity fines SILTY GRAVEL with SAND (GM): dark g 45% fine to coarse subrounded to rounde coarse sand, 25% low plasticity fines Bottom of boring at 12.0 feet. Boring bac bentonite chips.	density, structure, inter. Act surveyed and SAND (GP-GM): to coarse gravel, 25% subangular to angular, is fine-grained dark (10YR 4/3), moist, subangular fine to GRAVEL (SP-SM): 50% fine to coarse ngular gravel, 10% low ray (10Y 3/1), moist, d gravel, 30% fine to the yellowish brown coarse sand, 10% ticity, hard, contains clusions of green	Driller cal	REMARKS I: very rocky I: poor recovery
13- - 14- -					
15					OAKBOREV (REV. 3/00)
		Geomatrix Consultants	Project No. 1		,,

Anacor	orth Yard tes, Wasł	nington	Log	of Boring	No. PP-6
		-	ELEVATION AND		
BORING LOCATION:	N 55518	2.37; E 1210234.87	Not surveyed;	datum is groui	
DRILLING CONTRAC	OR: Cas	cade Drilling, Inc.	DATE STARTED: 2/9/06	DATI 2/9/	E FINISHED:
DRILLING METHOD:	Direct p	uch	TOTAL DEPTH (f		SURING POINT:
DRILLING METHOD.	Direct p		12.0		und surface
DRILLING EQUIPMEN	T: Powe	r Probe 9630 Pro-D	DEPTH TO WATE	ER (ft.) FIRST	COMPL. NA
Sampling Method:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE P K. Goodman		REG. NO. L.Hg. 1786
SAMPLES H (ise) isometry 1 isometry 2 isometry 3 isometry 4 isometry 5 isometry 6 isometry 7 isometry 8 isometry 9 isometry 10 isometry 11 isometry 12 isometry 13 isometry 14 isometry 15 isometry	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast of cementation, react. w/HCl, geo. in Surface Elevation: Not POORLY GRADED GRAVEL with SILT an very dark gray (10YR 3/1), dry, 65% fine to fine to coarse sand, 10% nonplastic fines, s contains cobbles up to 1' diameter, gravel is gray rock SILTY SAND with GRAVEL (SM): brown of 55% fine to coarse sand, 30% rounded to s coarse gravel, 15% low plasticity fines wet silty sand (SM) with matted wood fibers SILT (ML): very dark greenish gray (10Y 3 10% fine to coarse sand, low plasticity, soft SILT with SAND (ML): greenish gray mottle (10GY 5/1), moist, 70% fines, 20% fine to carse dark brown rootlets, also contains inclimica/metallic sand Bottom of boring at 12.0 feet. Boring backf bentonite chips.	density, structure, nter. at surveyed ad SAND (GP-GM): o coarse gravel, 25% subangular to angular s fine-grained dark (10YR 4/3), moist, subangular fine to 8/1), moist, 90% fines add yellowish brown coarse sand, 10% city, hard, contains lusions of green		REMARKS
16	1			I I	OAKBOREV (REV. 3/00)
15					

BORING LOCATION: N 555144.80; E 1210201.18 BORING LOCATION: N 555144.80; E 1210201.18 DRILLING CONTRACTOR: Cascade Drilling, Inc. DRILLING METHOD: Direct push TOTAL DEPTH (ft.): MEAS	ROJECT: MJB No Anacort	North Yard ortes, Wash	lington	Log of B	oring N	o. PP-7
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: DATE STARTED: <t< td=""><td></td><td></td><td></td><td></td><td></td><td>surface</td></t<>						surface
DRILLING METHOD: Direct push TOTAL DEPTH (ft.): IMEAS DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (ft.): FIRST SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite HAMMER WEIGHT: NA DROP: NA E SAMPLES V DESCRIPTION NAME (USCS): color, molet, % by wt. plast. density, structure, commandon, read. wHCl, goo. Inter. E SAMPLES V V DESCRIPTION NAME (USCS): Color, molet, % by wt. plast. density, structure, commandon, read. wHCl, goo. Inter. NAME (USCS): color, molet, % by wt. plast. density, structure, contains cobles up to 1' diameter, gravel is fine-grained dark 1 Image: Sample is a structure is inter-grained dark POORLY GRADED GRAVEL with SLT and SAND (GP-GM): very dark gray (10NR 31), dry, 65% fine to coarse gravel, 25% fine to coarse gravel, 10% nonplastic fines, subangular to angular, contains cobles up to 1' diameter, gravel is fine-grained dark 3 - - 4 - 5 - 6 % fine to coarse gravel, 20% is wurded to rounded fine to coarse gravel, 20% is who plasticity fines - - 10 - 11 - 2 - 3 - 4 - 5 - 6 <td>RILLING CONTRACT</td> <td>CTOR: Cas</td> <td>cade Drilling, Inc.</td> <td>DATE STARTED:</td> <td></td> <td>INISHED:</td>	RILLING CONTRACT	CTOR: Cas	cade Drilling, Inc.	DATE STARTED:		INISHED:
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATR(h) 4.5 SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Sattenwhite RESPONSIBLE PROFESSIONAL: HAMMER WEIGHT: NA DROP: NA K. Goodman Edge Barger Barger Sattenwhite RESPONSIBLE PROFESSIONAL: K. Goodman Sattenwhite Reservoid and the sattensity structure, cementation, react. whiCl, geo. inter. Coodman The sattensity of the sattensity of the sattensity structure, cementation, react. whiCl, geo. inter. NAME (USCS): coids on sattensity structure, cementation, react. whiCl, geo. inter. Sattensity of the sattensity structure, contains cobbles up to 1' diameter, gravel is fine-grained dark gravel, 15% inc to coarse gard, 15% inc to coarse gard, 30% moundat to angular to angular, contains cobbles up to 1' diameter, gravel is fine-grained dark gravel, 20% low plasticity fines SILTY SAND with GRAVEL (SM): black (10YR 2/1), moist, 50% fine to coarse gard, 30% subrounded to subangular to angular, fine to coarse gravel, 20% low plasticity fines T wet SILTY GRAVEL with SAND (GM): black (10YR 2/1), wet, 45% subangular to angular fine to coarse gravel, 35% fine to coarse sattensity structure, sattensity fines, and 20% low plasticity fines, and, 20% low plasticity fines, and 20% low plasticity fines, and 20%	RILLING METHOD:	Direct pu	ısh	TOTAL DEPTH (ft.):	MEASU	RING POINT: d surface
SAMULING ME HOU: Geoprobe macro-core sampler [4 x 1.5 ⁻] Z. Satterwhile HAMMER WEIGHT: NA DROP: NA K. Goodman Fig. 2 2 2 Sampler [4 x 1.5 ⁻] DESCRIPTION K. Goodman Fig. 2 2 2 2 Sampler [4 x 1.5 ⁻] DESCRIPTION NAME (USCS): coir, moist, % by w, plast, density, structure, commentation, react, whick geo, inter. 1 Sampler [4 x 1.5 ⁻] Surface Elevator: Not surveyed 1 OPORLY GRADED CRAVEL with SILT and SAND (CP-GM): wery dark gray (10YR 3/1), dry, 65% fine to coarse gravel, 25% fine to coarse gravel, 25% Fine to coarse gravel, 15% low plasticity fines 3 SILTY SAND with GRAVEL (SM): brown (10YR 4/3), moist, 55% fine to coarse gravel, 15% low plasticity fines SILTY SAND with GRAVEL (SM): black (10YR 2/1), moist, 50% fine to coarse gravel, 25% fine to coarse gravel, 30% subrounded to rounded fine to coarse gravel, 25% low plasticity fines 3 I I I I I 4 SILTY SAND with GRAVEL (SM): black (10YR 2/1), moist, 50% fine to coarse gravel, 25% fine to coarse gravel, 35% fine to coarse gravel, 35% fine to coarse gravel, 35% fine to coarse gravel, 25% sand, 20% low plasticity fines 6 SILTY GRAVEL with SAND (GM): black (10YR 2/1), wet, 45% subangular to angular fine to coarse gravel, 35% fine to coarse sand, 20% low plasticity fines, odor <td>RILLING EQUIPMEN</td> <td>ENT: Power</td> <td>r Probe 9630 Pro-D</td> <td>DEPTH TO WATER (ft.)</td> <td>FIRST</td> <td>COMPL.</td>	RILLING EQUIPMEN	ENT: Power	r Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST	COMPL.
Howeless in the second seco	AMPLING METHOD:	D: Geopro	be macro-core sampler [4' x 1.5"]			I
SAMPLES SAMPLES 0 DESCRIPTON NAME (USCS): color molt, % by wt. plast.density, structure, cementation, react. wHCl, geo. inter. Nature (USCS): color molt, % by wt. plast.density, structure, cementation, react. wHCl, geo. inter. 1 0	AMMER WEIGHT:	NA	DROP: NA		SIONAL:	REG. NO. L.Hg. 1786
1 Contains cobbles up to 1' diameter, gravel is fine-grained dark gray rock 2 SiLTY SAND with GRAVEL (SM): brown (10YR 4/3), moist, 55% fine to coarse sand, 30% rounded to subangular fine to coarse gravel, 15% low plasticity fines 3 SILTY SAND with GRAVEL (SM): black (10YR 2/1), moist, 50% fine to coarse sand, 30% subrounded to rounded fine to coarse gravel, 20% low plasticity fines 4 wet 5 contains woodshards 6 SILTY GRAVEL with SAND (GM): black (10YR 2/1), wet, 45% subangular to angular fine to coarse gravel, 35% fine to coarse sand, 20% low plasticity fines, odor 9 0 10 E 11 E 12 Bottom of boring at 12.0 feet. Boring backfilled with hydrated bentonite chips.		Foot OVM READING (ppm)	NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inter		_	REMARKS
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		very dark gray (10YR 3/1), dry, 65% fine to co fine to coarse sand, 10% nonplastic fines, sub contains cobbles up to 1' diameter, gravel is fit gray rock SILTY SAND with GRAVEL (SM): brown (10 55% fine to coarse sand, 30% rounded to sub coarse gravel, 15% low plasticity fines SILTY SAND with GRAVEL (SM): black (10° fine to coarse sand, 30% subrounded to round gravel, 20% low plasticity fines wet contains woodshards SILTY GRAVEL with SAND (GM): black (10° subangular to angular fine to coarse gravel, 38 sand, 20% low plasticity fines, odor	parse gravel, 25% angular to angular, ne-grained dark YR 4/3), moist, angular fine to (R 2/1), moist, 50% ded fine to coarse YR 2/1), wet, 45% 5% fine to coarse		
Geomatrix Consultants Project No. 10131.000			Geometrix Consultants	Project No. 101	131 000	OAKBOREV (REV. 3/00) Page 1 of 1

PROJECT: MJB North Anacortes.	Yard Washington	Log of Bo	oring No.	PP-8
	555189.12; E 1210171.70	ELEVATION AND DATUM		
BORING LOCATION. N	555169.12, E 1210171.70	Not surveyed; datum		
DRILLING CONTRACTOR:	Cascade Drilling, Inc.	DATE STARTED: 2/9/06	DATE FINI 2/9/06	SHED:
	reat puch	TOTAL DEPTH (ft.):		NG POINT:
DRILLING METHOD: Dir	rect push	12.0	Ground	
DRILLING EQUIPMENT:	Power Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST ~7.5	COMPL. NA
SAMPLING METHOD: G	eoprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT: N	A DROP: NA	RESPONSIBLE PROFESS	SIONAL:	REG. NO. L.Hg. 1786
SAMPLES Lago Samples 1 0.0 1 0.0 1 0.0 3 0.0 3 0.0 3 0.0 3 0.0 3 0.0 3 0.0 3 0.0 3 0.0 3 0.0 3 0.0 4 0.0 5 0.0 6 0.0 0.0 0.0 8 0.0 9 0.0 10 0.0 11 0.0 12 0.0 13 0.0	OPECE DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. int Surface Elevation: Not: Yerradian POORLY GRADED GRAVEL with SILT and very dark gray (10YR 3/1), dry, 65% fine to cofine to coarse sand, 10% nonplastic fines, su contains cobbles up to 1' diameter, gravel is: gray rock Image: SILTY SAND with GRAVEL (SM): brown (155% fine to coarse sand, 30% rounded to su coarse gravel, 15% low plasticity fines becoming very dark gray with subangular graves becoming very dark gray with subangular graves plasticity fines, non-plastic, soft, odor PEAT (PT): very dark brown (10YR 2/2), m woodchips and rootlets, 20% fine to coarse splasticity fines, non-plastic, soft, odor SILT (ML): greenish gray (10Y 5/1), moist, r plasticity, soft, with rootlets Image: Wet SILTY SAND (SM): dark greenish gray mottled (10GY 4/1), wet, 50% fine to coarse sand, 40 fines, 10% fine gravel SILT with SAND (ML): greenish gray mottled (10GY 5/1), moist, 70% fines, 20% fine to coarse sand, 40 fines, 10% fine to coarse gravel, low plasticit trace dark brown rootlets, also contains inclu mica/metallic sand Bottom of boring at 12.0 feet. Boring backfill bentonite chips.	ensity, structure, er. surveyed SAND (GP-GM): coarse gravel, 25% bangular to angular, fine-grained dark 0YR 4/3), moist, brounded fine to avel oist, 60% fibrous sand, 20% low 100% fines, low 100% fines, low	 Refusal ar first two bo (concrete 	EMARKS and 2 and 4' bgs in pring locations in bottom of so move north 4'
	Geomatrix Consultants	Project No. 1013		OAKBOREV (REV. 3/00) Page 1 of 1
	Southating concentration			

PROJECT: MJB N Anacor	orth Yard rtes, Wash	ington	Lo	g of Bo	oring N	o. PP-9
		1.11; E 1210482.12				0
			Not surveye DATE STARTE			SUITACE
DRILLING CONTRAC	TOR: Case	cade Drilling, Inc.	2/10/06		2/10/0	6
DRILLING METHOD:	Direct pu	sh	TOTAL DEPTH 12.0	H (ft.):	Groun	RING POINT:
DRILLING EQUIPMEN	T: Power	Probe 9630 Pro-D	DEPTH TO WA	ATER (ft.)	FIRST ~7.5	COMPL. NA
SAMPLING METHOD:	Geoprol	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhi			
HAMMER WEIGHT:	NA	drop: NA	RESPONSIBLE K. Goodmai		IONAL:	REG. NO. L.Hg. 1786
Cfeet) (feet) No. No. Sample Blows/ Foot	OVM OVM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, ged	t. density, structure, . inter.			REMARKS
	RE	Surface Elevation:	Not surveyed			
- 0°0°6°dd		SILTY SAND with GRAVEL (SM): very c moist, 45% fine to coarse sand, 30% sub to coarse gravel, 25% low plasticity fines, PEAT (PT): very dark brown mottled bla 2/2), moist, 60% fines, 20% wood shards sand, non plastic, soft POORLY GRADED GRAVEL with SANE (10Y 5/1), wet, 60% fine to coarse sand, rounded fine to coarse gravel SILT (ML): very soft, wet, sludgy, odor Bottom of boring at 12.0 feet. Boring bac bentonite chips.	angular to angular fin contains woodchips ck and brown (10YF , 20% fine to coarse , 20% fine to coarse (GP): greenish gra 40% subangular to	ne R IV		
				-	_	
15						OAKBOREV (REV. 3/00)
		Geomatrix Consultants	Proje	ect No. 1013	1.000	Page 1 of 1

PROJECT: MJB North Anacortes,		Log of B	oring No	o. PP-10
	55224.50; E 1210454.89	ELEVATION AND DATU		au r faac
		Not surveyed; datu DATE STARTED:		surface NISHED:
DRILLING CONTRACTOR:	Cascade Drilling, Inc.	2/10/06	2/10/0	6
DRILLING METHOD: Dire	ect push	TOTAL DEPTH (ft.): 12.0		RING POINT: d surface
DRILLING EQUIPMENT:	Power Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST	COMPL. NA
SAMPLING METHOD: Ge	eoprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite	•	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFE K. Goodman	SSIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) Sample No. Sample Blows/ Sample COVM	DESCRIPTION NAME (USCS): color, moist, % by wt., pl cementation, react. w/HCl, g			REMARKS
		Not surveyed		
PP-10-0.0	SILTY GRAVEL with SAND (GM): dar 4/2), moist, 40% fine to coarse gravel, 3 30% low plasticity fines, contains metal	30% fine to coarse sand,	_	
1	SILTY SAND with GRAVEL (SM): very	/ dark brown (10YR 2/2),		
	moist, 50% fine to coarse sand, 35% lo subangular to angular fine to coarse gra			
2- /			-	
$ \lambda $	SILT (ML): very dark brown (10YR 2/2			
3- /\	wood, 20% fine to coarse sand, low pla		-	
- $ $ $ $			-	
4-			_	
- 4.0				
	wood (odor)			
6 – ^{0;}				
– PP-10	POORLY GRADED SAND (SP): pale 100% fine to coarse sand or crushed re		_	
	↓ wet			
8-	V Not		_	
_	WOOD black (10YR 2/1), wet, 50% w	and 20% low plasticity		
9-0	fines, 20% fine to coarse sand, odor, st		_	
9 - 10-9.0			_	
10-1				
12				
' _	Bottom of boring at 12.0 feet. Boring b	ackfilled with hydrated		
	bentonite chips.			
13-				
14-				
-			-	
15				OAKBOREV (REV. 3/00)
				UARDUREV (REV. 3/00)

	lorth Yard rtes, Wasł	nington		Log of Bo	orin	ng No.	PP-11
BORING LOCATION:	N 55519	15.28; E 1210431.01		ON AND DATUM veyed; datum		around si	urface
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED 2/9/06					13	DATE FIN 2/9/06	IISHED:
DRILLING METHOD:	Direct pu	ush	TOTAL D	DEPTH (ft.):		MEASURI Ground	NG POINT: surface
DRILLING EQUIPME	NT: Powe	r Probe 9630 Pro-D		O WATER (ft.)		RST 7.5	COMPL.
SAMPLING METHOD	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED				
HAMMER WEIGHT:	NA	DROP: NA		ISIBLE PROFESS	SION	IAL:	REG. NO. L.Hg. 1786
DEPTH (feet) No. Blows/ Blows/ Blows/ Ceth No. Blows/ Ceth Ceth Ceth Ceth Ceth Ceth Ceth Ceth	OVM OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter.	ity, structu			F	REMARKS
		Surface Elevation: Not sur POORLY GRADED SAND (SP): dark olive gra		2) moist			
PP-11-0.0		95% fine to medium sand, 5% fines, contains ro	potlets	2), 110131,	_		
		WOOD very dark brown (10YR 2/2), moist, 40					
2-		to medium sand, 20% non-plastic fines, trace s angular fine to coarse gravel, soft	subangula	ar to			
3-					_		
		PEAT (PT): dark reddish brown (5YR 3/3), mc	 pist, wood	 t	_		
5-0							
PP-11-5.0		SILTY SAND with GRAVEL (SM): black (10YI	D 2/1) m	oiot 50%	_		
6-1		fine to medium sand, 20% non-plastic fines, 15			-		
		angular fine to medium gravel, 15% wood			-		
		WOOD black mottled dark reddish brown (10)					
8-0		woodchips, 20% fine to coarse sand, 10% fine soft, odor, trace fine angular pale yellow sulfur g					
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					_		
9-					$\left - \right $		
					$\left - \right $		
12-		Bottom of boring at 12.0 feet. Boring backfilled	with hvd	rated	-		
		bentonite chips.	, u		$\left - \right $		
13-					$\left - \right $		
14-							
15							OAKBOREV (REV. 3/00)
		Geomatrix Consultants		Project No. 1013	31.0	00	Page 1 of 1

PROJECT: MJB North Y Anacortes, V		Log of E	Boring No. PP-12
	-	ELEVATION AND DATU	•
BORING LOCATION: N 55	5265.23; E 1210480.22		um is ground surface
DRILLING CONTRACTOR:	Cascade Drilling, Inc.	DATE STARTED: 2/10/06	DATE FINISHED: 2/10/06
DRILLING METHOD: Dire	ct push	TOTAL DEPTH (ft.): 12.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: PO	ower Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST COMPL.
SAMPLING METHOD: Geo	oprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFE K. Goodman	ESSIONAL: REG. NO. L.Hg. 178
DEPTH (feet) No. Blows/ Foot READING	E NAME (USCS): color, moist, % by wt. cementation, react. w/HC	N , plast. density, structure,	REMARKS
RE C San San (E D	Surface Elevation:	Not surveyed	
- 1- 0: 0: - - - - - - - - - - - - -	SILTY GRAVEL with SAND (GM): of dark gray, yellowish-brown, and brow fine to coarse subangular to angular sand, 30% low plasticity fines	dark grayish brown mottled wn (10YR 4/2), moist, 40% gravel, 30% fine to coarse	
6- 0.95 	WOOD very dark brown mottled oliv 50% wood, 30% non-plastic fines, 2 peaty, soft	0% fine to coarse sand,	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WOOD very dark brown mottled red moist, 100% peaty woodchips, odor		_
	red stained (painted?) wood		_
	vet		
- 0. 0. 6. 2. 4.	□ red stained (painted?) wood		
			_
	Bottom of boring at 12.0 feet. Boring bentonite chips.	g backfilled with hydrated	
14-			_ _ _
15			
	Geomatrix Consultants	Project No. 1	OAKBOREV (REV. 3/0 0131.000 Page 1 of 1

PROJECT: MJB North Yard Anacortes, Was		Log of Be	oring No	o. PP-13
BORING LOCATION: N 5552	•	ELEVATION AND DATU		
	40.00; E 1210459.10	Not surveyed; datur		
DRILLING CONTRACTOR: Ca	scade Drilling, Inc.	DATE STARTED: 2/10/06	DATE F 2/10/0	INISHED:
DRILLING METHOD: Direct p	bush	TOTAL DEPTH (ft.):	MEASU	RING POINT:
DRILLING EQUIPMENT: Powe		12.0 DEPTH TO WATER (ft.)	FIRST	COMPL.
		LOGGED BY:	NA	NA
	obe macro-core sampler [4' x 1.5"]	Z. Satterwhite RESPONSIBLE PROFES		REG. NO.
HAMMER WEIGHT: NA	DROP: NA	K. Goodman	SIONAL.	L.Hg. 1786
DEPTH DEPTH No. Blows/ Foot Eoot Eoot Foot (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. c cementation, react. w/HCl, geo. ir	lensity, structure, nter.		REMARKS
		t surveyed		
0.0.9	GRAVELLY SILT with SAND (ML): dark gr 4/2), moist, 50% fines, 30% subangular to r gravel, 20% fine to coarse sand, low plastici	ounded fine to coarse	_	
1- ^{0.0} -21-	SILTY SAND with GRAVEL (SM): dark bro	wn (10YR 3/3),	7-1	
	moist, 55% fine to coarse sand, 30% suban to coarse gravel, 15% low plasticity fines, co		-	
2-		ontains woouchips	-	
			-	
3-	WOOD dark reddish brown (5YR 3/3), moi	 st, 75% large	-	
	woodchips, 15% fine to coarse sand, 10% r			
4-	odor		-	
5- 6			_	
	POORLY GRADED SAND (SP): pale yello	w (2.5V.8/2) moist		
6-	100% fine to coarse sand or crushed rock	w (2.51 0/5), moist,		
8-0	WOODmoist, 100% large woodchips, odor			
3-80				
0				
– 13– – 13–			-	
10-10-			-	
			-	
			-	
			-	
12-			<u>+</u>	
	Bottom of boring at 12.0 feet. Boring backfi bentonite chips.	lied with hydrated		
13-				
			-	
	1	1		OAKBOREV (REV. 3/00)
	Geomatrix Consultants	Project No. 10 ²	131 000	Page 1 of 1

PROJE			orth Yard rtes, Wasł	nington	l	Log of Bo	orin	g No.	PP-14
BORIN	G LOC	ATION:	N 55522	29.40; E 1210445.91		ON AND DATUM			
					DATE ST	veyed; datum		round s DATE FIN	
DRILLI	NG CC	ONTRAC [®]	TOR: Cas	scade Drilling, Inc.	2/9/06			2/9/06	
DRILLI	NG ME	ETHOD:	Direct pu	ush	TOTAL D 12.0	EPTH (ft.):			NG POINT: surface
DRILLI	NG EC	UIPMEN	IT: Powe	r Probe 9630 Pro-D	DEPTH T	O WATER (ft.)	FIR ~7	ST	COMPL. NA
SAMPL	ING N	IETHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED Z. Satte	erwhite			
HAMM	ER WE	EIGHT:	NA	DROP: NA	RESPON K. Good	SIBLE PROFESS dman	SIONA	AL:	REG. NO. L.Hg. 1786
DEPTH (feet)	Sample No.	Sample Sandle Blows/ Sandle	OVM OVM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter.		e,	-	F	REMARKS
		0) -		Surface Elevation: Not sur GRAVELLY SILT (ML): very dark gray (10YR	-				
	PP-14-0.0			fines, 40% subangular to subrounded fine to co fine to coarse sand, low plasticity, soft			_		
2-				off-white sandy gravel or crushed rock					
2				SILT with SAND (ML): very dark brown (10YR					
3-		$\overline{\mathbf{n}}$		low plasticity fines, 40% wood, 20% fine to coa non-plastic, soft	irse sand,	,			
		Ă		SILTY SAND (SM): very dark grayish brown m	ottled bla				
4-		Д		(10YR 3/2), moist, 60% fine to coarse sand, 30 fines, 10% fine to coarse gravel, contains wood	% low pla		_		
-	4.5						-		
5-	PP-14-4.			pale yellow crushed rock					
6-				- wood					
_		\mathbb{N}/\mathbb{N}					_		
7-		X		PEAT (PT): black (10YR 2/1), wet, silty, wood	y, odor				
- 8-		/							
	PP-14-8.0								
9-	d						-		
							$\left - \right $		
10- -		$\overline{)}$							
11-		X					_		
_		/					_		
12-				Bottom of boring at 12.0 feet. Boring backfilled	with hydi	rated			
13-				bentonite chips.					
-							$\left - \right $		
14-							-		
-							-		
15-	l			l			<u> </u>		OAKBOREV (REV. 3/00)
				Geomatrix Consultants		Project No. 101	31.000	0	Page 1 of 1

	B North Yard acortes, Was		Log of Bo	oring No. PP-15
BORING LOCATIO	ON: N 5552	18.16; E 1210433.96	ELEVATION AND DATUM Not surveyed; datum	
DRILLING CONTR	RACTOR: Cas	DATE STARTED: 2/9/06	DATE FINISHED: 2/9/06	
DRILLING METHO	DD: Direct p	ush	TOTAL DEPTH (ft.): 12.0	MEASURING POINT: Ground surface
DRILLING EQUIP	MENT: Powe	er Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST COMPL. ~7.0 NA
SAMPLING METH	IOD: Geopro	bbe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite	
HAMMER WEIGH	IT: NA	DROP: NA	RESPONSIBLE PROFESS	SIONAL: REG. NO. L.Hg. 1786
DEPTH (feet) Sample No. Sample	Blows/ 5 Foot OVM OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter.		REMARKS
		Surface Elevation: Not su GRAVELLY SILT (ML): very dark gray (10YR		
PP-15-0.0		fines, 40% subangular to subrounded fine to co fine to coarse sand, low plasticity, soft		-
		SILTY SAND with GRAVEL (SM): black (10Y fine to coarse sand, 30% low plasticity fines, 20		
2-		gravel, contains wood		
3-				_
				-
4-				-
- 4.				-
PP-45-4		 large yellow wood chunks SILT (ML): black (10YR 2/1), moist, 70% fine: 	s 20% wood 10%	
6-		fine to coarse sand, low plasticity, very soft, odd		
7-				
		vet 🖌		-
8- 👷				-
PP-15-8.0				-
9				-
10-				
12-		Bottom of boring at 12.0 feet. Boring backfilled	with hydrated	+-
		bentonite chips.	, with Hydrated	-
13-				-
				-
14-				
15				
		Geomatrix Consultants	Project No. 101	OAKBOREV (REV. 3/00) 31.000 Page 1 of 1
L			-	

	orth Yard tes, Wash	ington		Log of B	oring N	lo. PP-16
		0.45; E 1210404.11				dourfoco
			DATE ST	veyed; datur ARTED:	n is groun Date	d sufface FINISHED:
DRILLING CONTRACT	UR: Cas	cade Drilling, Inc.	2/9/06		2/9/0	
DRILLING METHOD:	Direct pu	ısh	12.0	DEPTH (ft.):		URING POINT: Ind surface
DRILLING EQUIPMEN	T: Power	Probe 9630 Pro-D		TO WATER (ft.)	FIRST ~7.5	COMPL. NA
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED Z. Satte	erwhite		
HAMMER WEIGHT:	NA	DROP: NA	RESPON K. Goo	ISIBLE PROFES dman	SIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) Sample No. Sample Blows/ Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo.		re,		REMARKS
0 0 H	L H H	Surface Elevation: N	lot surveyed			
PP-16-0.0		SILTY SAND with GRAVEL (SM): black fine to medium sand, 30% fine to coarse g low plasticity fines			_	
	-	SILTY SAND (SM): dark gray mottled yell				
		pale yellow, and black (10YR 4/1), moist, sand, 40% low plasticity fines, 10% fine to			-	
2-			ocuree graver			
					-	
3-						
					-	
4-0.	-	pale yellow silty fine gravel (sulfur?)				
4 0.4-6-4-0		PEAT (PT): dark reddish brown (5YR 3/3 non-plastic, soft	3), moist, wood	dy,	-	
					_	
6- 		SILTY SAND with GRAVEL (SM): black fine to coarse sand, 35% subrounded to re gravel, 20% low plasticity fines, odor				
8-8		WOOD black mottled dark reddish brown woodchips, 20% fine to coarse sand, 10%	fine to coarse	e gravel,		
PP-16-8.0		nonplastic, soft, odor, trace fine angular pa throughout	ale yellow sulfu	ir gravel	_	
9					-	
-					-	
10-					-	
					-	
11-					_	
					-	
12-			ا الفاحية الم	rotod	-	
		Bottom of boring at 12.0 feet. Boring back bentonite chips.	milea with hyd	rated	_	
13-		· · · · · · · · · · · · · · · · · · ·				
14-						
						OAKBOREV (REV. 3/00)
		Geomatrix Consultants		Project No. 10	131.000	Page 1 of 1

BORING LOCATION N 555223.30; E 1210406.18 Not EVEXP(ed); datum is ground surface DATE STARTED; 29066 DATE STARTED; 290676 DATE STARTED; 290676 DATE S	PROJECT: MJB North Yard Anacortes, Was		Log of Bo	oring No	o. PP-17
DRULING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: DATE STARTED: <td></td> <td>-</td> <td></td> <td></td> <td>surface</td>		-			surface
DRILLING METHOD: Direct push 10704_DEPTH (R): DRULING FORM: DRILLING COURMENT: Power Probe 9630 Pro-D DEPTH T0 WATER (R): FIRST DRILLING METHOD: Geoprobe macro-core sampler [4' X 1.5'] Z. Satterwhite A.S. MAMELING METHOD: Geoprobe macro-core sampler [4' X 1.5'] Z. Satterwhite RESPONSIBLE PROFESSIONAL: REG. NO. HMMMER WEIGHT: NA DROP: NA ESCRIPTION RESPONSIBLE PROFESSIONAL: REG. NO. Ling SMPLUS gr g	DRILLING CONTRACTOR: Ca	scade Drilling. Inc.	DATE STARTED:	DATE FI	
DRILLING EQUIPMENT: Power Probe 9830 Pro-D DEPTH TO WATER (TL) 4.6 INA SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5'] Z. Satterwhite InA MAMER WEIGHT: NA prop: NA K. Goodman HMMER WEIGHT: NA prop: NAME (USCS): color moil, %K by the past densy, thruture, commandon, react. which good theory, thruture, commandon, react. which good theory, thruture, comandation, react. which good theory, thruture, contains colobas up to 1' diameter, gravel is fine-grained dat. POORLY GRADE GRAVEL (WS 31', by the past densy, thruture, contains colobas up to 1' diameter, gravel is fine-grained dat. POORLY GRAVEL (WS 31', by the past densy, thruture, contains colobas by to 1' diameter, gravel is fine-grained dat. POORLY GRAVEL (MS 31', by the past densy, thruture, past eyellow, and back (IOYR 21'), moil, GS% fine to coarse as and, 10% fine to coarse gravel, low plasticity fines, white woodshards, sow sold, soft fine to coarse as and, 10% fine to coar			TOTAL DEPTH (ft.):	MEASU	
SMAPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] LOGGED BY: 2. Satterwhite HAMMER WEIGHT: NA DROP: NA Egging and another state of the state of th				FIRST	COMPL.
HAMMER WEIGHT: NA DROP: NA REGRUPTION REGRONBLE PROFESSIONAL: REGRONBLE PROFESSIONAL: L.H.g. 1781 Log go g	SAMPLING METHOD: Geopr	obe macro-core sampler [4' x 1.5"]		4.5	
SAMPLES grading	· ·		RESPONSIBLE PROFES	SIONAL:	
		NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo. Surface Elevation: N POORLY GRADED GRAVEL with SILT at very dark gray (10YR 3/1), dry, 65% fine to fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel gray rock SANDY SILT (ML): dark gray mottled yello pale yellow, and black (10YR 4/1), moist, 4 40% fine to coarse sand, 10% fine to coarse very firm black woodshards SILTY SAND (SM): black mottled brown fine to medium sand, 35% low plasticity fin SANDY SILT (ML): very dark grayish brov 65% fines, 35% fine to coarse sand, with v plasticity, soft SILTY SAND with GRAVEL (SM): black (fine to coarse sand, 20% dark yellow bubb plasticity fines WOOD black mottled dark red (10YR 2/1) SILT (ML): black (10YR 2/1), wet, 70% fin fine to coarse sand, low plasticity, very soft SILT (ML): black (10YR 2/1), wet, 70% fin fine to coarse sand, low plasticity, very soft	density, structure, inter. ot surveyed nd SAND (GP-GM): o coarse gravel, 25% subangular to angular, is fine-grained dark owish-brown, green, 50% low plasticity fines, se gravel, low plasticity, (10YR 2/1), moist, 65% es, with woodshards vn (10YR 3/2), moist, voodshards, low (10YR 2/1), wet, 60% ly slag gravel, 20% low), mes, 20% wood, 10% c, odor		
OAKBOREV (REV. 300	_			_	
		Geomatrix Consultants	Proiect No. 10 ²	131.000	OAKBOREV (REV. 3/00) Page 1 of 1

	orth Yard tes, Wash	nington	Log	of Boring N	No. PP-18
		9.14; E 1210426.85	ELEVATION AN		
BORING LOCATION.	IN 00020	9.14, E 1210420.05		d; datum is grour	nd surface
DRILLING CONTRACT	OR: Cas	cade Drilling, Inc.	DATE STARTEI 2/9/06	2/9/	
DRILLING METHOD:	Direct pu	ısh	TOTAL DEPTH 12.0	• •	SURING POINT: und surface
DRILLING EQUIPMEN	T: Powe	r Probe 9630 Pro-D	DEPTH TO WA	TER (ft.) 6.75	COMPL.
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhit	te	I
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE K. Goodmar	PROFESSIONAL:	REG. NO. L.Hg. 1786
SAMPLES HIGO SAMPLES Image: Sample Image: Sample Image: Sample Image: Sample <	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt. plast. cementation, react. w/HCl, geo. Surface Elevation: N SILTY GRAVEL (GM): very dark gray (10 subangular to subrounded fine to coarse g fine to coarse sand vellowish brown fine sandy silt SILT (ML): very dark brown (10YR 2/2), r fines, 10% fine to coarse sand, 10% fine to plasticity, soft SILTY GRAVEL (GM): very dark brown (fine to coarse subangular to angular grave fines SILTY GRAVEL (GM): very dark brown (fine to coarse subangular to angular grave fines PEAT (PT): very dark brown (10YR 2/2), red-stained wood chunks, odor Bottom of boring at 12.0 feet. Boring back bentonite chips.	density, structure, inter. ot surveyed YR 3/1), moist, 55% ravel, 40% fines, 5 noist, 80% woody o coarse gravel, low coarse gravel, low 10YR 2/2), wet, 80% I, 20% low plasticity wet, woody, with		REMARKS
				-	
15	<u> </u>				OAKBOREV (REV. 3/00)
/	∕%⊆=	Geomatrix Consultants	Proje	ect No. 10131.000	Page 1 of 1

PROJECT: MJB N Anaco	orth Yard tes, Wash	nington	Log	of Boring I	No. PP-19
		-	ELEVATION AND	D DATUM:	
BORING LOCATION:	N 55526	6.89; E 1210445.09		; datum is grou	nd surface
			DATE STARTED	DAT	E FINISHED:
DRILLING CONTRAC	TOR: Cas	cade Drilling, Inc.	2/10/06	2/10	
			TOTAL DEPTH (SURING POINT:
DRILLING METHOD:	Direct pu	JSN	12.0		und surface
	IT. Dours	r Braha 0620 Bra D		FIRST	COMPL.
		r Probe 9630 Pro-D	LOGGED BY:	ER (ft.) ~7.5	NA
SAMPLING METHOD	Geopro	be macro-core sampler [4' x 1.5"]	Z. Satterwhite		
HAMMER WEIGHT:	NA	DROP: NA	K. Goodman	PROFESSIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) Sample No. Sample Blows/ Ecot	OVM OVM (ppm)	DESCRIPTIO NAME (USCS): color, moist, % by wt. cementation, react. w/HC	., plast. density, structure,		REMARKS
		Surface Elevation:	Not surveyed		
0.		SILTY SAND with GRAVEL (SM): c	•		
- 19-0		3/2), moist, 40% fine to coarse sand		_	
PP-19-0.0		25% low plasticity fines, with woodch		,	
1- "				-	
$ \parallel \parallel \parallel$				_	
2- \/				-	
		SANDY SILT (ML): very dark green			
3- /\		black (10Y 3/1), moist, 45% fines, 4		5% -	
		fine to coarse gravel, trace woodchip	os, low plasticity, soft		
4 –				-	
4.5					
5-19-49				-	
d					
		WOOD dark brown to reddish brown	n (10YR 3/3), moist, odor		
6- o				-	
D - 19-6.0					
<u>-</u> -				[⁻]	
7 - 🗖					
T IĂI		wet		-	
8-		T		_	
7				-	
9-				_	
		↓ black			
		UIDUK		-	
-10- -10-9:5 -10-9:2				_	
- 19-		── ^{──} fine sulfur gravel			
- d				-	
11-		red stain		<u> </u>	
-		silty		-	
12-					
		Bottom of boring at 12.0 feet. Boring	g backfilled with hydrated		
-		bentonite chips.		-	
13-					
-				-	
14					
14-				-	
_				_	
15					
15					OAKBOREV (REV. 3/00
		Geomatrix Consultants	Projec	t No. 10131.000	Page 1 of 1

BORING LOCATION: N 555101.16; E 1210378.36 ELEVATION AND DATUR: Not Surveyed; datum is ground surface DRILLING CONTRACTOR: Cascade Drilling, Inc. 2/10/06 DRILLING CONTRACTOR: Cascade Drilling, Inc. 2/10/06 DRILLING KETHOD: Direct push TOTAL DEFTH 17 WATER (n) MASUMG CONT. DRILLING SCUIPMENT: Power Probe 9630 Pro-D DEFTH 10 WATER (n) Power Probe 16400. SAMFUNG METHOD: Geoprobe macro-core sampler [4' x 1.5'] Z. Saterwhite Total REFNONSIDE PROFESSIONAL RESONSIDE PROFESSIONAL MAMER WEIGHT: NA DROP: NA RESONSIDE PROFESSIONAL REMARKS Egg group gr		orth Yard tes, Wasł	nington	Log of Bo		o. PP-20
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: DATE STARTED: DATE STARTED: DRILLING METHOD: Direct push 12.0 TOTAL DEPTH (1); MEASURING POINT: ORLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (1); FIRST Complexities SAMPLING METHOD: Geographic macro-core sampler [4' x 1.5"] Z. Satterwhite Satterwhite FIRST COMPL HAMMER WEIGHT: NA DROP: NA RECORPTION RESCONSIL; PROFESSIONAL: REG NO, K. Goodman Ling Marking Sill TY SAND with GRAVEL (SNI); black (10'NR 2/1), moist, 40% fine to coarse and, 35% km plasticity fines; 50% subconded to rounded the to angular fine to coarse and, 35% km plasticity fines; 52% subconduct to angular gravel. POORLY GRADED GRAVEL (WI); black (10'NR 2/1), moist, 40% fine to coarse and, 35% km plasticity fines; 52% months form to coarse and, 35% km plasticity fines; 52% fine to coarse and, 35% km plasticity fines; 52% fine to coarse and, 35% km plasticity fines; 52% fine to coarse and, 35% km plasticity fines; 52% fine to coarse and, 35% km plasticity fines; 52% fine to coarse and, 35% km plasticity fines; 52% fine to coarse and, 35% km plasticity fines; 52% fine to coarse gravel POORLY GRADED SAND with GRAVEL (SNI); very dark grav POORLY GRADED SAND with GRAVEL (SNI); very dark grav Poorlaw 1 POORLY GRADED SAND with GRAVEL (SNI); well 80% fine to Poorlaw fines; 72% fine to coarse gravel Poorlaw fines; 72% fines; 72% fines; 72% fine to coarse gravel Poorlaw fines; 72% fines;	BORING LOCATION:	N 55510	1.15; E 1210378.36			surface
DRILLING METHOD: Direct push Direct push <td< td=""><td>DRILLING CONTRACT</td><td>FOR: Cas</td><td>cade Drilling, Inc.</td><td>DATE STARTED:</td><td>DATE F</td><td>INISHED:</td></td<>	DRILLING CONTRACT	FOR: Cas	cade Drilling, Inc.	DATE STARTED:	DATE F	INISHED:
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (tt.) FIRST 5.0 COMPL. 5.0 SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite RESPONSIBLE PROFESSIONAL: RESONAL: REC.NO. HAMMER WEIGHT: NA DROP. NA DESCRIPTION RESPONSIBLE PROFESSIONAL: REARCH Example in the intermediation react which gene intermediation react which gene intermediation interact which gene intermediation interaction interaction intermediation interact which gene intermediation intermediation interaction interaction interaction intermediation interaction interaction interaction interaction interaction intermediation interaction intermediation interaction intermediation intermediation interaction int			-	TOTAL DEPTH (ft.):	MEASU	RING POINT:
SMAPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] LOGGED BY: Z. Satterwhite MAMMER WEIGHT: NA DROP: NA DESCRIPTION MERSENDIAL: PROFESSIONAL: I.LHg. 1786 SMAPLES SMARLES SMARLES SMARLES Sate of the state of the	DRILLING EQUIPMEN	T: Powe	r Probe 9630 Pro-D		FIRST	COMPL.
HAMMER WEIGHT: NA DROP: NA IRESPONSIBLE PROFESSIONAL: K. Goodman REG NO. K. Goodman End bill SMMPLES bill Signed bill Bill Signed bill Bill DESCRIPTION NAME (USCS): columned; bill DESCRIPTION DesCRIPTION REMARKS Image: Solution of the boots are prevention. NAME (USCS): columned; bill Not surveyed REMARKS Image: Solution of the boots are prevention. Surface Elevation: Not surveyed REMARKS Image: Solution of the boots are prevention. Surface Elevation: Not surveyed REMARKS Image: Solution of the boots are prevention. Surface Elevation: Not surveyed Remarks Image: Solution of the boots are prevention. POORLY GRADED GRAVEL (KN): bill (CIVR 21), moist, 40%, fine to coarse sand, 35% low plasticity fines, 25% subangular to angular inter to coarse gravel. POORLY GRADED SAND with GRAVEL (SP): very dark gray motified dark velowish-brown (10YR 31), wet, 80% fine to coarse gravel. Image: Solution of boring at 12.0 feet. Bottom of boring at 12.0 feet. Bottom of boring at 12.0 feet. Bottom of boring at 12.0 feet.	SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]		5.0	
SAMPLES 0 <t< td=""><td>HAMMER WEIGHT:</td><td>NA</td><td>DROP: NA</td><td>RESPONSIBLE PROFES</td><td>SIONAL:</td><td></td></t<>	HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROFES	SIONAL:	
SILTY SAND with GRAVEL (SM): black (10YR 2/1), moist, 40% fine to coarse gravel. POORLY GRADED GRAVEL with SILT and SAND (GP-GM): brown (10YR 4/3), moist, 50% subcanded to rounded fine to coarse gravel. Gradie		OVM EADING (ppm)	NAME (USCS): color, moist, % by wt., plast. de	ensity, structure,		
1 POORLY GRADED GRAVEL with SILT and SAND (GP-GN): brown (10YR 4/3), moist, 50% subrounded to rounded fine to coarse gravel, 40% fine to coarse sand, 10% low plasticity fines, 25% 6/3, moist, 40% fine to coarse sand, 35% low plasticity fines, 25% fine to coarse rounded to angular gravel 4	о о ш	R		-		
 SILTY SAND with GRAVEL (SM): light yellowish brown (2.5Y 6/3), moist, 40% fine to coarse sand, 35% low plasticity fines, 25% fine to coarse rounded to angular gravel POORLY GRADED SAND with GRAVEL (SP): very dark gray mottled dark yellowish-brown (10YR 3/1), wet, 80% fine to coarse sand, 20% fine to coarse gravel WOOD dark brown to reddish brown (10YR 3/3), wet, 60% peaty woodchips, 20% fine to coarse sand, 20% non-plastic fines, soft to firm, odor red painted wood chips Bottom of boring at 12.0 feet. Boring backfilled with hydrated bentonite chips. 			fine to coarse sand, 35% low plasticity fines, angular fine to coarse gravel POORLY GRADED GRAVEL with SILT and brown (10YR 4/3), moist, 50% subrounded	25% subangular to I SAND (GP-GM): to rounded fine to		
6/3), moist, 40% fine to coarse sand, 35% low plasticity fines, 25% fine to coarse rounded to angular gravel POORLY GRADED SAND with GRAVEL (SP): very dark gray motified dark yellowish-brown (10YR 3/1), wet, 80% fine to pale yellow rock WOOD dark brown to reddish brown (10YR 3/3), wet, 60% peaty woodchips, 20% fine to coarse sand, 20% non-plastic fines, soft to firm, odor WOOD dark brown to reddish brown (10YR 3/3), wet, 60% peaty woodchips, 20% fine to coarse sand, 20% non-plastic fines, soft to firm, odor Bottom of boring at 12.0 feet. Boring backfilled with hydrated bentonite chips.						
5 To all and all			6/3), moist, 40% fine to coarse sand, 35% lo	w plasticity fines,	 	
6- - - 7- - 8- - 9- 0 9- 0 10- 0 0 0 10- 0 0 0 11- - 12- - 13- - 14- - 15- -	5-12 - 542 - 1					
9 00000 0000 0000 <			— coarse sand, 20% fine to coarse gravel		 	
11- - 12- Bottom of boring at 12.0 feet. Boring backfilled with hydrated bentonite chips. 13- - 14- - 15- -	9-		peaty woodchips, 20% fine to coarse sand, 2			
Bottom of boring at 12.0 feet. Boring backfilled with hydrated bentonite chips.			─── red painted wood chips			
				led with hydrated		
					_	
Geomatrix Consultants Project No. 10131.000 Page 1 of 1			Coometrix Consultante	Desta dalla da	121.000	OAKBOREV (REV. 3/00)

	orth Yard tes, Wasł	nington	Log of E	Boring No). PP-21
		7.95; E 1210372.88	ELEVATION AND DAT		
Borano EcoArion.	N 33307	7.33, E 1210372.00	Not surveyed; datu DATE STARTED:		surface INISHED:
DRILLING CONTRAC	TOR: Cas	cade Drilling, Inc.	2/10/06	2/10/0	
DRILLING METHOD:	Direct p	ush	TOTAL DEPTH (ft.): 12.0	MEASU	RING POINT: d surface
DRILLING EQUIPMEN	IT: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft.) FIRST) ~4.5	COMPL. NA
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT:	NA	drop: NA	RESPONSIBLE PROFE	ESSIONAL:	REG. NO. L.Hg. 1786
SAMPLES SAMPLES SAMPLES SAMPLES (eff) 1- 1- 2- 3- 3- 4- 2- 3- 4- 5- 5- - - - - - - - - - - - - -	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte Surface Elevation: Not si POORLY GRADED GRAVEL with SILT and 3 very dark gray (10YR 3/1), dry, 65% fine to co rine to coarse sand, 10% nonplastic fines, sub contains cobbles up to 1' diameter, gravel is fi gray rock POORLY GRADED GRAVEL with SILT and 3 brown (10YR 4/3), moist, 50% subrounded to coarse gravel, 40% fine to coarse sand, 10% I Very dark gray (10YR 3/1), wey dark brown (10YR 2/5% low plasticity fines, 10% I POORLY GRADED SAND with GRAVEL (SF mottled dark yellowish-brown (10YR 3/1), we coarse sand, 20% fine to coarse gravel, contains coarse sand, 20% fine to coarse sand, 30° gravel, 15% low plasticity fines, contains trace gravel, odor SILTY SAND with GRAVEL (SM): very dark I SILTY SAND with GRAVEL (SM): very dark I	r. urveyed SAND (GP-GM): parse gravel, 25% pangular to angular, ne-grained dark SAND (GP-GM): o rounded fine to ow plasticity fines 2/2), moist, 65% fine fine to coarse gravel 2/2), wry dark gray t, 80% fine to ins wood prown to black % fine to coarse yellow fine sulfur		REMARKS
				_	
		Geomatrix Consultants	Project No. 1	0131 000	OAKBOREV (REV. 3/00) Page 1 of 1
•				0101.000	1 age 1 01 1

PROJECT: MJB North Yard Anacortes, Was		Log of B	oring No	. PP-22
BORING LOCATION: N 5550	-	ELEVATION AND DATUR		
		Not surveyed; datur DATE STARTED:		SUITACE NISHED:
DRILLING CONTRACTOR: Ca	scade Drilling, Inc.	2/10/06	2/10/00	
DRILLING METHOD: Direct p	bush	TOTAL DEPTH (ft.): 12.0	Groun	RING POINT: d surface
DRILLING EQUIPMENT: Powe	er Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST ~5.0	COMPL. NA
SAMPLING METHOD: Geopre	obe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES	SIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) Sample No. Blows/ Sample Sample Sample COVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, geo	. inter.		REMARKS
	Surface Elevation: I POORLY GRADED GRAVEL with SILT a	Not surveyed	_	
$ \begin{array}{c} 1 - \\ 1 - \\ 2 - \\ 2 - \\ 2 - \\ 3 - \\ - \\ 3 - \\ - \\ 3 - \\ - \\ 3 - \\ - \\ 4 - \\ 0 + 52 - 4d \\ - \\ 5 - \\ - \\ - \\ - \\ $	 very dark gray (10YR 3/1), dry, 65% fine fine to coarse sand, 10% nonplastic fines contains cobbles up to 1' diameter, grave gray rock POORLY GRADED GRAVEL with SILT a brown mottled gray (10YR 4/3), moist, 50 rounded fine to coarse gravel, 40% fine to plasticity fines wet SILTY GRAVEL (GM): greenish black (' to coarse gravel, 30% low plasticity fines WOOD black and dark brown and reddis moist, silty and peaty woodchips, odor red stained wood Bottom of boring at 12.0 feet. Boring bac bentonite chips. 	, subangular to angular, is fine-grained dark and SAND (GP-GM): 0% subrounded to 0 coarse sand, 10% low 0 Y 2.5/1), wet, 70% fine		
15		1	I	OAKBOREV (REV. 3/00)
	Geomatrix Consultants	Project No. 10	131.000	Page 1 of 1

Anacortes,	′ard Vashington	Log of Bo	oring No). PP-23
	55044.22; E 1210354.77	ELEVATION AND DATUM		
BORING ECCATION. N J	55644.22, L 1210554.77	Not surveyed; datun		
DRILLING CONTRACTOR:	Cascade Drilling, Inc.	DATE STARTED: 2/10/06	2/10/0	INISHED: 6
DRILLING METHOD: Dire	ct push	TOTAL DEPTH (ft.): 12.0	MEASU	RING POINT: d surface
DRILLING EQUIPMENT: F	ower Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST	
SAMPLING METHOD: Ge	oprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite	0.0	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES K. Goodman	SIONAL:	REG. NO. L.Hg. 1786
SAMPLES OELIG 0 0 1 0 2 0 3 0 3 0 4 0 5 0 6 0 9 0 10 0 11 0 12 0 11 0 12 0 13 0 14 1 14 1 15 0	DESCRIPTION NAME (USCS): color, moist, % by wt., placementation, react. w/HCl, ge Surface Elevation: POORLY GRADED GRAVEL with SILT very dark gray (10YR 3/1), dry, 65% find fine to coarse sand, 10% nonplastic fine contains cobbles up to 1' diameter, grav gray rock POORLY GRADED GRAVEL with SILT brown mottled gray (10YR 4/3), moist, sounded fine to coarse gravel, 40% fine plasticity fines vert vert vert vert vert PORLY GRAVEL with SAND (GM): greed wet SILTY GRAVEL with SAND (GM): greed wet, 60% fine to coarse subangular to a coarse sand, 20% low plasticity fines, co PEAT (PT): dark brown (10YR 2/2), we fine to coarse subangular to angular gravel Bottom of boring at 12.0 feet. Boring base bentonite chips.	et, silty and woody, 20%		OAKBOREV (REV. 300)
· •			131.000	OAKBOREV (REV. 3/00)

Anacortes, V	∕ard Nashinαton	Log of B	oring No.	PP-24
· · · · · ·		ELEVATION AND DATU	IM:	
BORING LOCATION: N 5	55056.25; E 1210339.47	Not surveyed; datu	m is ground s	urface
DRILLING CONTRACTOR:	Cascade Drilling, Inc.	DATE STARTED: 2/10/06	DATE FIN 2/10/06	
DRILLING METHOD: Dire	ect push	TOTAL DEPTH (ft.): 12.0	Ground	ING POINT: surface
DRILLING EQUIPMENT: P	Power Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST 4.5	COMPL.
SAMPLING METHOD: Ge	oprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFE K. Goodman	SSIONAL:	REG. NO. L.Hg. 1786
BEDUND Beneficial And Sample 00M Blows/ 1 - 2 - 3 - 3 - 4 - - - 3 - - - <td>DESCRIPTION NAME (USCS): color, moist, % by wt., cementation, react. w/HCl, Surface Elevation: POORLY GRADED GRAVEL with SI very dark gray (10YR 3/1), dry, 65% t fine to coarse sand, 10% nonplastic fi contains cobbles up to 1' diameter, gr gray rock POORLY GRADED GRAVEL with SI brown mottled gray (10YR 4/3), mois rounded fine to coarse gravel, 40% fir plasticity fines SILTY SAND with GRAVEL (SM): ve (10YR 3/1), moist, 50% fine to coarse fines, 20% fine to coarse gravel SILTY GRAVEL with SAND (GM): gr wet, 60% fine to coarse subangular to coarse sand, 20% low plasticity fines, woodshards</td> <td>plast. density, structure, geo. inter. Not surveyed ILT and SAND (GP-GM): fine to coarse gravel, 25% ines, subangular to angular, ravel is fine-grained dark ILT and SAND (GP-GM): st, 50% subrounded to ne to coarse sand, 10% low ery dark gray mottled brown e sand, 30% low plasticity reenish black (5GY 2.5/1), o angular gravel, 20% fine to</td> <td></td> <td>Ould be just</td>	DESCRIPTION NAME (USCS): color, moist, % by wt., cementation, react. w/HCl, Surface Elevation: POORLY GRADED GRAVEL with SI very dark gray (10YR 3/1), dry, 65% t fine to coarse sand, 10% nonplastic fi contains cobbles up to 1' diameter, gr gray rock POORLY GRADED GRAVEL with SI brown mottled gray (10YR 4/3), mois rounded fine to coarse gravel, 40% fir plasticity fines SILTY SAND with GRAVEL (SM): ve (10YR 3/1), moist, 50% fine to coarse fines, 20% fine to coarse gravel SILTY GRAVEL with SAND (GM): gr wet, 60% fine to coarse subangular to coarse sand, 20% low plasticity fines, woodshards	plast. density, structure, geo. inter. Not surveyed ILT and SAND (GP-GM): fine to coarse gravel, 25% ines, subangular to angular, ravel is fine-grained dark ILT and SAND (GP-GM): st, 50% subrounded to ne to coarse sand, 10% low ery dark gray mottled brown e sand, 30% low plasticity reenish black (5GY 2.5/1), o angular gravel, 20% fine to		Ould be just
	Bottom of boring at 12.0 feet. Boring bentonite chips.	backfilled with hydrated		
15				OAKBOREV (REV. 3/00

PROJECT: MJB North Yard Anacortes, Was		Log of Be	oring No	o. PP-25
BORING LOCATION: N 5550		ELEVATION AND DATUM Not surveyed; datum		surface
DRILLING CONTRACTOR: Ca	scade Drilling, Inc.	DATE STARTED: 2/10/06	DATE F 2/10/0	INISHED: 6
DRILLING METHOD: Direct p	ush	TOTAL DEPTH (ft.): 12.0		RING POINT: Id surface
DRILLING EQUIPMENT: Powe	er Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST 4.5	COMPL. NA
SAMPLING METHOD: Geopre	obe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES	SIONAL:	REG. NO. L.Hg. 1786
HI SAMPLES I Sample I - I - Sample - I -	DESCRIPTION NAME (USCS): color, moist, % by wt., plast cementation, react. w/HCl, geo. Surface Elevation: N POORLY GRADED GRAVEL with SILT a very dark gray (10YR 3/1), dry, 65% fine t fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel gray rock POORLY GRADED GRAVEL with SILT a brown mottled gray (10YR 4/3), moist, 50 rounded fine to coarse gravel, 40% fine to plasticity fines SILTY SAND (SM): black (10YR 2/1), me sand, 25% low plasticity fines, 10% fine to coarse subangular to ang coarse sand, 20% low plasticity fines, con SANDY SILT (ML): greenish gray mottled (10GY 5/1), moist, 70% fines, 30% fine to plasticity, very firm, contains trace dark bro contains inclusions of green mica/metallic	density, structure, inter. Not surveyed and SAND (GP-GM): to coarse gravel, 25% subangular to angular, is fine-grained dark and SAND (GP-GM): % subrounded to o coarse sand, 10% low bist, 65% fine to coarse o coarse gravel, odor bist, 65% fine to coarse o coarse gravel, odor bist black (5GY 2.5/1), gular gravel, 20% fine to tains woodshards I yellowish brown coarse sand, low bown rootlets, also		REMARKS
	Bottom of boring at 12.0 feet. Boring back bentonite chips.	kfilled with hydrated	- - - -	
			-l l	OAKBOREV (REV. 3/00)
	Geomatrix Consultants	Project No. 10	131.000	Page 1 of 1

PROJECT: MJB North Y Anacortes, W		Log of B	oring No	o. PP-26
	5018.56; E 1210352.72	ELEVATION AND DATU		<i>c</i>
		Not surveyed; datur		surface INISHED:
DRILLING CONTRACTOR:	Cascade Drilling, Inc.	2/10/06	2/10/0	6
DRILLING METHOD: Direc	ct push	TOTAL DEPTH (ft.): 12.0	Groun	RING POINT: d surface
DRILLING EQUIPMENT: PO	ower Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST 5.0	COMPL. NA
SAMPLING METHOD: Geo	pprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES	SSIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) No. Sample Sample Foot Foot CVM READING	E DESCRIPTION NAME (USCS): color, moist, % by wt., pl cementation, react. w/HCl, g	ast. density, structure, eo. inter.		REMARKS
	edhado Elovaton.	Not surveyed		
1- 1- 2- 2- 3- 3- 4- 0- 5- 4- 0- 5- 4- 0- 0- 5- 4- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0	 POORLY GRADED GRAVEL with SILvery dark gray (10YR 3/1), dry, 65% fir fine to coarse sand, 10% nonplastic fine contains cobbles up to 1' diameter, grav gray rock SILTY SAND with GRAVEL (SM): brow (10YR 4/3), moist, 50% fine to coarse s to coarse gravel, 15% low plasticity fine wet, dark yellowish brown (10YR 4/4); wrounded gravel SILTY GRAVEL with SAND (GM): greater wet, 50% subrounded to rounded fine to coarse sand, 15% low plasticity fines Bottom of boring at 12.0 feet. Boring babentonite chips. 	e to coarse gravel, 25% es, subangular to angular, /el is fine-grained dark wn mottled dark gray and, 35% subangular fine s		
14-				
			_	
15				OAKBOREV (REV. 3/00)

	B North Yard		Log of	Boring No). PP-27
		83.75; E 1210337.41	ELEVATION AND DA		
BORING LOCAT	ION. IN JJ49	03.73, E 1210337.41	Not surveyed; da	tum is ground	surface NISHED:
DRILLING CONT	RACTOR: Ca	scade Drilling, Inc.	2/10/06	2/10/0	
DRILLING METH	OD: Direct p	nuch	TOTAL DEPTH (ft.):	MEASU	RING POINT:
	OD. Direct p		12.0		d surface
DRILLING EQUIF	PMENT: Powe	er Probe 9630 Pro-D	DEPTH TO WATER (ft.) ~6.5	COMPL. NA
SAMPLING MET	HOD: Geopr	obe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIG	ht: NA	DROP: NA	RESPONSIBLE PROI	ESSIONAL:	REG. NO. L.Hg. 1786
DEPTH DEPTH Sample Sample Sample	<u> </u>	POORLY GRADED GRAVEL with SILT a	inter. ot surveyed nd SAND (GP-GM):	_	REMARKS
- 1- - 2- - 3- - 4- - 5- - 6- - 7- - 0.7-2-dd - 0.6-1/2-dd - 0.6-1/2-dd - 10- - 10- - 11- - 12- - 13- - 14- - 14-		very dark gray (10YR 3/1), dry, 65% fine to fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel gray rock POORLY GRADED GRAVEL with SILT al brown (10YR 4/3), moist, 50% subrounded coarse gravel, 40% fine to coarse sand, 10 WOOD dark brown (10YR 2/2), wet, peat sand, woodchips, odor, with yellow angula SANDY SILT (ML): very greenish gray mod (10GY 4/1), moist, 80% fines, 20% fine to plasticity, firm, contains trace dark brown reinclusions of green mica/metallic sand Bottom of boring at 12.0 feet. Boring back bentonite chips.	o coarse gravel, 25% subangular to angular, is fine-grained dark nd SAND (GP-GM): d to rounded fine to 0% low plasticity fines y, 10% fine to coarse r sulfur pieces	<pre>- electrica _ encount _ bgs - lea</pre>	iameter gray PVC I conduit ered at 3 inches ads to old mer to east.
-					
15					OAKBOREV (REV. 3/00)
		Geomatrix Consultants		10131.000	Page 1 of 1

HAMMER WEIGHT: NA D HAMMER WEIGHT: NA D SAMPLES SAMPLE	ag, Inc. 30 Pro-D core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not sun RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat ns cobbles up to 1' diameter, gravel is fine	veyed AND (GP-GM): rse gravel, 25% ngular to angular,	n is ground s DATE FIR 2/10/06 MEASUR Ground FIRST 6.0	NISHED:
DRILLING CONTRACTOR: Cascade Drillin DRILLING METHOD: Direct push DRILLING EQUIPMENT: Power Probe 963 SAMPLING METHOD: Geoprobe macro-or HAMMER WEIGHT: NA DRILLING SAMPLES Image: Control of the second	ng, Inc. 30 Pro-D core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densiting cementation, react. w/HCl, geo. inter. Surface Elevation: Not survey RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coan coarse sand, 10% nonplastic fines, subations cobbles up to 1' diameter, gravel is fine book RLY GRADED GRAVEL with SILT and SA	DATE STARTED: 2/10/06 TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY: Z. Satterwhite RESPONSIBLE PROFES: K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,	DATE FII 2/10/06 MEASUR Ground FIRST 6.0	NISHED: NING POINT: I surface COMPL. NA REG. NO. L.Hg. 1786
DRILLING METHOD: Direct push DRILLING EQUIPMENT: Power Probe 963 SAMPLING METHOD: Geoprobe macro-or HAMMER WEIGHT: NA HAMMER WEIGHT: NA HAMMER WEIGHT: NA Direct push NA Hammer Weight: NA Hammer Weight: <td< td=""><td>30 Pro-D Core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not surve RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat ns cobbles up to 1' diameter, gravel is fine bock RLY GRADED GRAVEL with SILT and SA</td><td>2/10/06 TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY: Z. Satterwhite RESPONSIBLE PROFES: K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,</td><td>2/10/06 MEASUR Ground FIRST 6.0</td><td>ING POINT: I surface COMPL. NA REG. NO. L.Hg. 1786</td></td<>	30 Pro-D Core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not surve RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat ns cobbles up to 1' diameter, gravel is fine bock RLY GRADED GRAVEL with SILT and SA	2/10/06 TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY: Z. Satterwhite RESPONSIBLE PROFES: K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,	2/10/06 MEASUR Ground FIRST 6.0	ING POINT: I surface COMPL. NA REG. NO. L.Hg. 1786
DRILLING EQUIPMENT: Power Probe 963 SAMPLING METHOD: Geoprobe macro-or HAMMER WEIGHT: NA HI (1) HI (1)	core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not sun RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat on scobbles up to 1' diameter, gravel is fine to coa brock RLY GRADED GRAVEL with SILT and SA	TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY: Z. Satterwhite RESPONSIBLE PROFES: K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,	MEASUR Ground FIRST 6.0	ING POINT: Surface COMPL. NA REG. NO. L.Hg. 1786
DRILLING EQUIPMENT: Power Probe 963 SAMPLING METHOD: Geoprobe macro-or HAMMER WEIGHT: NA HI (1) HI (1)	core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not sun RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat on scobbles up to 1' diameter, gravel is fine to coa brock RLY GRADED GRAVEL with SILT and SA	12.0 DEPTH TO WATER (ft.) LOGGED BY: Z. Satterwhite RESPONSIBLE PROFES: K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,	SIONAL:	REG. NO.
SAMPLING METHOD: Geoprobe macro-or HAMMER WEIGHT: NA Hammer	core sampler [4' x 1.5"] DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not sun RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat on scobbles up to 1' diameter, gravel is fine to coa brock RLY GRADED GRAVEL with SILT and SA	LOGGED BY: Z. Satterwhite RESPONSIBLE PROFES: K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,	6.0 SIONAL:	NA REG. NO. L.Hg. 1786
HAMMER WEIGHT: NA D HAMMER WEIGHT: NA D SAMPLES SAMPLE	DROP: NA DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not sun RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat ns cobbles up to 1' diameter, gravel is fine bock RLY GRADED GRAVEL with SILT and SA	Z. Satterwhite RESPONSIBLE PROFEST K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,		L.Hg. 1786
SAMPLES SOURCE H L table all controls all controls all con	DESCRIPTION ME (USCS): color, moist, % by wt., plast. densit cementation, react. w/HCl, geo. inter. Surface Elevation: Not sun RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subar ns cobbles up to 1' diameter, gravel is fine ock RLY GRADED GRAVEL with SILT and SA	K. Goodman ty, structure, veyed AND (GP-GM): rse gravel, 25% ngular to angular,		L.Hg. 1786
H (jee) H (ME (USCS): color, moist, % by wt., plast. densii cementation, react. w/HCl, geo. inter. Surface Elevation: Not survey RLY GRADED GRAVEL with SILT and SA ark gray (10YR 3/1), dry, 65% fine to coa coarse sand, 10% nonplastic fines, subat ns cobbles up to 1' diameter, gravel is fine ock RLY GRADED GRAVEL with SILT and SA	veyed AND (GP-GM): rse gravel, 25% ngular to angular,	-	REMARKS
$ \begin{array}{cccc} 2 - & & & & & & \\ 3 - & & & & & \\ 3 - & & & & & \\ 4 - & & & & & \\ 4 - & & & & & \\ 5 - & & & & & \\ 5 - & & & & & \\ 5 - & & & & & \\ 6 - & & & & & \\ 7 - & & & & & \\ 7 - & & & & & \\ 7 - & & & & & \\ 8 - & & & & & \\ 9 - & & & & & \\ 9 - & & & & & \\ 9 - & & & & & \\ 10 - & & & & & \\ 10 - & & & & \\ 11 - & & & & \\ 11 - & & & & \\ 12 - & & & & \\ 12 - & & & & \\ 13 - & & & \\ 14 - & & & \\ 14 - & & & \\ \end{array} $	Y SILT (ML): dark greenish gray mottled 4/1), moist, 80% fines, 20% fine to coarse static fines RLY GRADED GRAVEL with SAND (GP): 5/2), moist, 60% subangular to angular fin or broken brick, 40% fine to coarse sand /4 light yellowish brown gravelly f-c sand RLY GRADED GRAVEL with SAND (GP): noist, 60% subrounded to rounded fine to ne to coarse sand gular to angular gravel with some broken Y SILT (ML): dark greenish gray mottled 4/1), moist, 80% fines, 20% fine to coarse ity, hard, contains trace dark brown rootle ons of green mica/metallic sand	<pre>vounded fine to / w plasticity fines_ / ay (N 4/), moist, avel, 20%</pre>		al at 5' bgs on first move 3' to N.
15 Geomatri			31.000	OAKBOREV (REV. 3/00)

BORING LOCATION: N 554365.79; E 1210395.70 ELEVATION AND DATUM Not SWAPEQ; ddtum is ground surface DRILING CONTRACTOR: Cascade Drilling, Inc. 2/10/06 DRILING CONTRACTOR: Cascade Drilling, Inc. 2/10/06 DRILING ECONTRACTOR: Coscade Drilling, Inc. 2/10/06 DRILING ECONTRACTOR: Coscade Drilling, Inc. Coscade Drilling, Inc. DRILING ECONTRACTOR: Power Probe 9630 Pro-D DEFINITION SAMPLING METHOD: Ceoprobe macro-core sampler [4' x 1.5'] Z Sattenville SAMPLING METHOD: Ceoprobe macro-core sampler [4' x 1.5'] Z Sattenville MAMER WEIGHT: NA DROP: NA K Goodman LHMARE WEIGHT: NA DROP: NA K Goodman Torial Strateging (Core and	PROJECT: MJB North Yard Anacortes, Was		Log of E	Boring No	. PP-29
DRILLING CONTRACTOR: Cascade Drilling, Inc. Drilling, Inc. <td< td=""><td></td><td></td><td>-</td><td></td><td><i>c</i></td></td<>			-		<i>c</i>
DRILLING CONTRACTOR Casecade Diffing, Inc. 2/10/06 2/10/06 PRILLING CONTRACTOR DRILLING EQUIPMENT: Direct push 12.0 MEASURING POINT: Condend sufface DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (k) PIST 2.25 NA SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite RESONSIBLE PROFESSIONAL: REG. NO. Table Samples Samples Satter Science REG. NO. K. Goodman LHig. 178 Table Satter Science Satter Science Satter Science REG. NO. K. Goodman LHig. 178 Table Satter Science Satter Science Satter Science REG. NO. K. Goodman LHig. 178 Table Satter Science Satter Science Satter Science Science Evaluer No. K. Goodman LHig. 178 Table Satter Science Satter Science Satter Science Science Science Red. NO. Red. NO. Table Satter Science Satter Science Science Science Science Science Science Science Science Science <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>Im is ground : Date fil</td> <td>NISHED:</td>		· · · · · · · · · · · · · · · · · · ·		Im is ground : Date fil	NISHED:
Direction Merindus Direct plash 12.0 Cround surface DRELLING EQUEMENT: Power Probe 9630 Pro-D DEPTH TO WATER (R), 9.25 NA SAMPLING METHOD: Ceoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite RESONSIBLE PROFESSIONAL: RESONSIBLE PROFESSIONAL: RESONSIBLE PROFESSIONAL: RESONSIBLE PROFESSIONAL: LL1q, 178 HAMMER WEIGHT: NA DROP: NA RESONSIBLE PROFESSIONAL: REMARKS Termination: react which, geo infer Surface Elevation: Not surveyed POORLY GRADED GRAVEL WHICh, geo infer REMARKS Termination: react which SULT and SAND (GPC M): POORLY GRADED GRAVEL WHICh, geo infer REMARKS REMARKS 1 Orary took Surface Elevation: Not surveyed POORLY GRADED GRAVEL (SM): veny dark gravel addres POORLY GRADED GRAVEL (SM): veny dark gravel (GCY 3/1), moist, 60% fine to coarse gravel 22%, fine to coarse sand, 10% nonplater in angular to angular	DRILLING CONTRACTOR: Ca	scade Drilling, Inc.	2/10/06	2/10/06	6
DARLING BUDPLEN: POWEP Properson and proves and	DRILLING METHOD: Direct p	ush		Ground	l surface
SAMELING KE HOL: Geoprobe macro-core sampler { x 1.5 } HAMMER WEIGHT: NA DROP: NA RESONANCE PROFESSIONAL: LHg.178 LHg.178 Same Sector Core sampler { x 1.5 } LHg.178 Same Sector Core sampler { x 1.5 } Sector Core	DRILLING EQUIPMENT: Powe	er Probe 9630 Pro-D			
Packmer Webcht: NA DROP: NA K. Goodman L.Hg. 178 Ending State State State State Resonance Resonance 1 State State State State State Resonance Resonance 2 State State State State Resonance Resonance Resonance 1 State State State State State State State 3 State State State State State State State 1 State State State State State State State 3 State State State State State State State 2 State State State State State State 3 State State State State State State 2 State State State State State State 3 State State State State State State 3 State State State State State State 4 <	SAMPLING METHOD: Geopre	bbe macro-core sampler [4' x 1.5"]	Z. Satterwhite		
Ended Big of the second seco	HAMMER WEIGHT: NA	DROP: NA		ESSIONAL:	REG. NO. L.Hg. 1786
OAKBOREV (REV. 3/0	HLIGH HL	 NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo. Surface Elevation: N POORLY GRADED GRAVEL with SILT a very dark gray (10YR 3/1), dry, 65% fine t fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel gray rock brown sandy gravel SILTY SAND with GRAVEL (SM): very da 3/1), moist, 60% fine to coarse sand, 20% 20% subrounded to subangular fine to coarse very dark grayish brown (10YR 3/2) very dark grayish brown (10YR 3/2) wet WOOD dark brown to black (10YR 2/1), weith the subarding the subarding	density, structure, inter. ot surveyed nd SAND (GP-GM): o coarse gravel, 25% subangular to angular, is fine-grained dark urk greenish gray (5GY low plasticity fines, arse gravel vet, woodchips, soft		REMARKS
OAKBOREV (REV. 3/0	15				04/202511/2511-221
Geomatrix Consultants Project No. 10131.000 Page 1 of 1		Geomatrix Consultants	Project No. 1	0131 000	, ,

	orth Yard rtes, Wasł	nington	Log of	Boring No	. PP-30
		6.29; E 1210422.55	ELEVATION AND DA		
BORING LOOATION.	N 33430	0.23, L 1210422.33	Not surveyed; dat DATE STARTED:	tum is ground s DATE FI	
DRILLING CONTRAC	TOR: Cas	cade Drilling, Inc.	2/10/06	2/10/06	
DRILLING METHOD:	Direct pu	Joh	TOTAL DEPTH (ft.):		RING POINT:
DRILLING METHOD.	Direct pt		12.0		I surface
DRILLING EQUIPMEN	IT: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (f	t.) FIRST 5.5	COMPL. NA
SAMPLING METHOD	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		550.00
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROF K. Goodman	-ESSIONAL:	REG. NO. L.Hg. 1786
SAMPLES HEAD Constraints SAMPLES Sample S	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo. Surface Elevation: M POORLY GRADED GRAVEL with SILT at very dark gray (10YR 3/1), dry, 65% fine to fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel i gray rock POORLY GRADED GRAVEL with SILT at brown (10YR 4/3), moist, 50% subrounde coarse gravel, 40% fine to coarse sand, 10 SILTY SAND with GRAVEL (SM): very da 50% fine to coarse sand, 30% fine to coarse nonplastic fines WOOD dark brown to light brown (10 YR woodchips Bottom of boring at 12.0 feet. Boring back bentonite chips.	inter. bt surveyed hd SAND (GP-GM): o coarse gravel, 25% subangular to angular, s fine-grained dark hd SAND (GP-GM): d to rounded fine to % low plasticity fines rk gray (N 4/), moist, se gravel, 20% 2/2), wet, large	 Driller cato Driller cato Driller sa Driller sa Performe 	REMARKS
13- 14- 					
15				<u>i</u> I	OAKBOREV (REV. 3/00)

BORING LOCATION: N 554396.65; E 1210397.57 ELEVATION AND DATUR: Not surveyed; datum is ground surface Date Staffec Date Staff		orth Yard tes, Wash	nington	Lo	og of Bor	ring No.	PP-31
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: 21006 DATE STARTED: 21006 DATE STARTED: 21006 DATE STARTED: 21006 DRILLING METHOD: Direct push 107AL DEPTH (ft): 12.0 MEASURING POINT: Cound sufface MARCE SAMPLING METHOD: Ecoprobe matcro-core sampler [4' x 1.5'] 2. Sattembile Cound sufface HAMMER WEIGHT: NA DRCP: NA Coorden privation LENG NO. Edge Sattembile Sattembile RECO NO. NA RECO NO. Ling State Sattembile Sattembile RECO NO. LENG COURT POINT NA Image: Sattembile Sattembile Sattembile RECO NO. LENG COURT POINT RECO NO. Image: Sattembile Sattembile Sattembile RECO NO. LENG COURT POINT RECO NO. Image: Sattembile Sattembile Sattembile RECO NO. LENG ROC PERSSIONAL: RECO NO. Image: Sattembile Sattembile Sattembile Sattembile RECO NO. LENG ROC PERSSIONAL: RECO NO. Image: Sattembile Sattembile Sattembile Sattembile RECO NO. LENG ROC PERSSIONAL: RECO NO. Image: Sattembile Sattembile Sattembile Sattembile Sattembile Reco NO.	BORING LOCATION:	N 55439	8.65; E 1210397.57			s around s	urface
DRILING METHOD: Direct push TOTAL DEPTH (R): MEASURAGE COINT: Ground surface DRILLING ECUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (R): FIST COMPL. SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhile NA RESPONSILE PROFESSIONAL: REG NO. HAMMER WEIGHT: NA DROP: NA DESCRIPTION Cooddans REG NO. Ling of the state	DRILLING CONTRAC	TOR: Cas	cade Drilling, Inc.	DATE STAR		DATE FIN	
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (t) PIST COMPL. SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite RESPONSIBLE PROFESSIONLE REG.NO. HAMMER WEIGHT: NA DROP: NA DESCRIPTION RESPONSIBLE PROFESSIONLE REG.NO. EGG 80 EGG 80	DRILLING METHOD:	Direct pu	ısh	TOTAL DEP	TH (ft.):	MEASURI	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x1.5"] LOGGED BY: Z. Satterwhite HAMMER WEICHT: NA DROP: NA RESONDIAL PROFESSIONAL RESONDIAL PROFESSIONAL RECONDINCE PROFESSIONAL RECONDINCE PROFESSIONAL L.Hg. 1786 FGB Sate Software Sate Sate Sate RECONDINCE ProfessionAL RECONDINCE ProfessionAL RECONDINCE RECO	DRILLING EQUIPMEN	IT: Powe	r Probe 9630 Pro-D			FIRST	COMPL.
HAMMER WEIGHT: NA DROP: NA RESPONSING PROFESSIONAL: PREC NO. I. LHg. 1786 SAMPLES bigg Software Software DESCRIPTION Resolution: No. Surface Evaluation: Resolution: No. Resolution: Resolution: 1 Surface Evaluation: No. No. Resolution: No. 2 Surface Evaluation: No. No. No. Resolution: 3 - Surface Evaluation: No. No. Resolution: 4 - - Surface Evaluation: No. No. 6 - - - - - - 8 - - - - - - 1 - - - - - - 2 - - - - - - 3 - - - - - - 6 - - - - - - 10 - - - - - - 11 - - - - - - 12 - - - - <td>SAMPLING METHOD:</td> <td>Geopro</td> <td>be macro-core sampler [4' x 1.5"]</td> <td></td> <td>1:</td> <td></td> <td></td>	SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]		1:		
Example is SAMPLES 0<	HAMMER WEIGHT:	NA	DROP: NA	RESPONSIE	BLE PROFESSIO	ONAL:	
SILTY SAND with GRAVEL (SM): dark greenish gray (5GY 4/1), monplastic fines becoming N 4/ (dark gray) becoming N 4/ (dark gray)		OVM READING (ppm)	NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter.	ity, structure,		F	
11- - 12- - - - 13- - - - 14- - 15 -	2- 3- 4- 5- 6- 7- 8- 9-		↓ becoming N 4/ (dark gray) ↓ wet WOOD dark brown (10YR 3/3), moist, slight of				
Bottom of boring at 12.0 feet. Boring backfilled with hydrated bentonite chips.					_		
OAKBOREV (REV. 300	 13 14			with hydrate	ed		
			Geomatrix Consultants	Pr	oject No. 10131	.000	

PROJECT: MJB North Yard Anacortes, Washington	Log of Bo	oring No. PP-32
BORING LOCATION: N 554432.45; E 1210399.93	ELEVATION AND DATUM Not surveyed; datum	
DRILLING CONTRACTOR: Cascade Drilling, Inc.	DATE STARTED: 2/10/06	DATE FINISHED: 2/10/06
DRILLING METHOD: Direct push	TOTAL DEPTH (ft.): 12.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST COMPL. 5.5 NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA DROP: NA	RESPONSIBLE PROFESS	SIONAL: REG. NO. L.Hg. 1786
H L G B SAMPLES D D H L G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B B H G B B B B B	ast. density, structure, eo. inter. Not surveyed	REMARKS
POORLY GRADED GRAVEL with SILT	and SAND (GP-GM):	
- very dark gray (10YR 3/1), dry to moist, gravel, 25% fine to coarse sand, 10% no subsequences applies	onplastic fines,	_
subangular to angular, contains cobbies		_
2 - SILTY SAND with GRAVEL (SM): very 50% fine to coarse sand, 35% subround		_
Coarse gravel, 15% nonplastic fines		-
		-
dor		_
5-		_
		_
$\begin{bmatrix} - & & & \\ & & & \\ & & & \\ & 6 & & \\ & & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ $		_
		-
7- WOOD very dark brown to black (10YF nonplastic fines, woodchips	R 2/1), wet, 25%	-
		_
8-000 8-000 -02		_
9-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		_
– °° 35° 10− d		—
		_
		_
12- Bottom of boring at 12.0 feet. Boring ba	ackfilled with hydrated	-
bentonite chips.		-
		_
		_
		_
15		OAKBOREV (REV. 3/00)
Geomatrix Consultants	Project No. 101	31.000 Page 1 of 1

PROJECT: MJB North Yard Anacortes, Wasl	nington	Log of E	Boring No	. PP-33	
BORING LOCATION: N 55525	-	ELEVATION AND DAT		surface	
DRILLING CONTRACTOR: Cas	scade Drilling Inc	DATE STARTED:	DATE FI	NISHED:	
		3/22/06 TOTAL DEPTH (ft.):	3/22/06 MEASURING POINT:		
DRILLING METHOD: Direct p		12.0	Ground	d surface	
DRILLING EQUIPMENT: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft.) ~4.5	NA	
SAMPLING METHOD: Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFE	ESSIONAL:	REG. NO. L.Hg. 1786	
SAMPLES O HLdag adurge adurge adurge <td< td=""><td>DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo.</td><td>density, structure, inter. ot surveyed nd SAND (GP-GM): o coarse gravel, 25% subangular to angular, is fine-grained dark urk brown (10YR 2/2), o coarse subangular to ains woodchips noist, 75% peaty non-plastic fines 10YR 2/2), wet, 80% I, 20% low plasticity vet, 40% fine to coarse le gravel of elemental dor</td><td> Driller is displaces below. F obtain be</td><td>REMARKS hitting rock, which s soft material Four attempts to etter recovery from locations, but no</td></td<>	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo.	density, structure, inter. ot surveyed nd SAND (GP-GM): o coarse gravel, 25% subangular to angular, is fine-grained dark urk brown (10YR 2/2), o coarse subangular to ains woodchips noist, 75% peaty non-plastic fines 10YR 2/2), wet, 80% I, 20% low plasticity vet, 40% fine to coarse le gravel of elemental dor	 Driller is displaces below. F obtain be	REMARKS hitting rock, which s soft material Four attempts to etter recovery from locations, but no	
 14			_		
15				OAKBOREV (REV. 3/00)	
	Geomatrix Consultants	Project No. 1	0131.000	Page 1 of 1	

Anacortes, Washington BORING LOCATION: N 555286.43; E 1210437.86 DRILLING CONTRACTOR: Cascade Drilling, Inc. DRILLING METHOD: Direct push	ELEVATION AND DATUM: Not surveyed; datum is ground surface DATE STARTED: DATE FINISHED: 3/22/06 3/22/06 TOTAL DEPTH (ft.): MEASURING POINT: 12.0 Ground surface DEPTH TO WATER (ft.) FIRST COMPL. ~10.5 NA
DRILLING CONTRACTOR: Cascade Drilling, Inc.	DATE STARTED: DATE FINISHED: 3/22/06 3/22/06 TOTAL DEPTH (ft.): MEASURING POINT: 12.0 Ground surface
	3/22/06 3/22/06 TOTAL DEPTH (ft.): MEASURING POINT: 12.0 Ground surface FIRST COMPL.
	TOTAL DEPTH (ft.): MEASURING POINT: 12.0 Ground surface FIRST COMPL.
DRILLING METHOD: Direct push	12.0 Ground surface
	FIRST COMPL.
DRILLING EQUIPMENT: Power Probe 9630 Pro-D	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.	
HAMMER WEIGHT: NA DROP: NA	RESPONSIBLE PROFESSIONAL: REG. NO. K. Goodman L.Hg. 1786
$\overrightarrow{\vdash} \widehat{x}$ \overrightarrow{v} \overrightarrow{v} \overrightarrow{v} \overrightarrow{v} \overrightarrow{v} \overrightarrow{v} \overrightarrow{v} NAME (USCS): color, moist,	PTION by wt., plast. density, structure, REMARKS w/HCl, geo. inter.
	ition: Not surveyed
POORLY GRADED GRAVE very dark gray (10YR 3/1), d fine to coarse sand, 10% nor	vith SILT and SAND (GP-GM): 65% fine to coarse gravel, 25% astic fines, subangular to angular, ter, gravel is fine-grained dark
WOOD yellow moist, fine like	
becoming dark brown to redo	h brown and slightly coarser
10- 첫 fine sulfur gravel (<1/2" diam	vith odor
coarse sand, 40% sludgy not	lack (10Y 2.5/1), wet, 60% fine to astic fines
12- Bottom of boring at 12.0 feet bentonite chips. 13- Bottom of boring at 12.0 feet bentonite chips.	Boring backfilled with hydrated
	_
	OAKBOREV (REV. 3/00)
Geomatrix Consultants	Project No. 10131.000 Page 1 of 1

PROJECT: MJB North Yar Anacortes, Wa		Log of E	Boring No	. PP-35				
BORING LOCATION: N 5552		ELEVATION AND DATE Not surveyed; date		surface				
DRILLING CONTRACTOR: C	ascade Drilling, Inc.	DATE STARTED: 3/22/06		NISHED:				
DRILLING METHOD: Direct	push	TOTAL DEPTH (ft.): 12.0	MEASU	RING POINT: d surface				
DRILLING EQUIPMENT: Pow	ver Probe 9630 Pro-D	DEPTH TO WATER (ft.	FIRST	COMPL. NA				
SAMPLING METHOD: Geop	robe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite						
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFE K. Goodman	ESSIONAL:	REG. NO. L.Hg. 1786				
DEPTH (feet) (feet) Sample Sample Foot COVM READING	DESCRIPTION NAME (USCS): color, moist, % by wt., pla cementation, react. w/HCl, g	ast. density, structure,		REMARKS				
	04.1400 2.014401.1	Not surveyed						
1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	SILTY GRAVEL with SAND (GM): very (10YR 3/2), dry, 55% fine to coarse gras sand, 20% nonplastic fines, subangular cobbles up to 1' diameter, gravel is fine- POORLY-GRADED SAND (SP): fine, or SANDY SILT (ML): very dark gray mott moist, 60% fines, 30% fine sand, 10% v soft Isss sand; wet WOOD black (10YR 2.5/1), wet, shard WOOD black (10YR 2.5/1), wet, shard Iss sand; wet SILTY SAND with GRAVEL (SM): very 3/1, wet, 50% fine to coarse gravel, contains white search	vel, 25% fine to coarse to angular, contains grained dark gray rock <u>olive (5Y 5/4)</u> tled brown (10YR 3/1), voodchips, low plasticity, y						
	Bottom of boring at 12.0 feet. Boring babentonite chips.	ackfilled with hydrated						
		Duringth	0404.000	OAKBOREV (REV. 3/00)				
///	Geomatrix Consultants	Project No. 1	0131.000	Page 1 of 1				

BORING LOCATION: N 555240.01; E 1210378.56 Not Euroyeed; ddum is ground surface DATE STARTED: DATE S	PROJECT: MJB North Ya Anacortes, Wa		Log of Bo	oring No	o. PP-36		
DRILLING CONTRACTOR: Cascade Drilling, Inc. 3/22/06 DRILLING METHOD: Direct push 12.0 DRILLING METHOD: Direct push 12.0 DRILLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite MAMER WEIGHT: NA DROP: NA SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite MAMER WEIGHT: NA DROP: NA MAMER WEIGHT: NA DROP: NA Very dark gray (10'R 3'), by w. plast. density, structure, animatable, sub-charly, structure, animatable, sub-	BORING LOCATION: N 555	240 01 [.] E 1210378 56					
Description 3/22/06 3/22/06 3/22/06 Description MassUms proving MassUms proving MassUms proving Description Direct push 10/01 L DEPTH TO WATER (h) FIRST COMPL SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5'] LOGGED BY: 2. SatterWhite -7.0 NA MAMER WEIGHT: NA DROP: NA RESPONSIBLE PROFESSIONAL: L.H.g. 1784 Ling Sampunction MassUms proving NAME (USCS): columination; read: which, structure, columnation; read: structure, columnatin, structure, columnation; read: structure, columnatio							
DRILING MEI HOU DIERCIPIERD UNDER DUST 12.0 Cound surface DRILING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (R). FIRST -7.0 NA SAMELING METHOD: Geoprobe macro-core sampler [4' x 1.5"] Z. Satterwhite Z. Satterwhite RESONSIBLE PROFESSIONAL: RESONSIBLE PROFESSIONAL: L.Hg. 1784 HAMMER WEIGHT: NA DROP: NA RESONSIBLE PROFESSIONAL: REMARKS Explain Bill Bill Bill Bill Bill Bill Bill Bi	DRILLING CONTRACTOR: C	Cascade Drilling, Inc.					
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DPFH TO WATER (t) -7.0 NA SAMPLING METHOD: Geoprobe macro-core sampler [4' X 1.5'] Z. Satterwhite -7.0 NA HAMMER WEIGH: NA prop: NA DESCRIPTION RESPONSIBLE PROPESSIONAL: REG.NO. Ling SMPLLS group group Group NAME (USCS): color, most % you, plast density, structure. RESPONSIBLE PROPESSIONAL: Ling, 1764 Ling SMPLLS group group group Group NAME (USCS): color, most % you, plast density, structure. REMARKS Image: Group Satter Standon, react, which group Responsible PROPEND: REMARKS Image: Group Satter Standon, react, which group Responsible PROPEND: REMARKS Image: Group Satter Standon, react, which group Responsible PROPEND: Responsible PROPEND: Image: Group Satter Standon, react, which group and brown (10YR 2.5'1), most, 50% fine to coarse grand, 45% fine to coarse gr	DRILLING METHOD: Direct	push					
DRILLING ECUIRMENT: POWER Probe 9630 PPC-D DEPRIM TO WATER (ii) -7.0 NA SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5'] Clocked by the temperature in temperature in the temperature in temperature in tempe		•					
SAMPLING METHOD: Ceoprobe macro-core sampler (4 x 1.5') Z. Satterwhite HAMMER WEIGHT: NA DROP: NA RESPONSITE PROFESSIONAL: REC. NO. K Goodman L.Hg. 1784 DESCREPTION RESPONSITE PROFESSIONAL: REMARKS K Goodman Surface Elevation: Not surveyed REMARKS REMARKS L Goodman Surface Elevation: Not surveyed REMARKS REMARKS 1	DRILLING EQUIPMENT: PO	wer Probe 9630 Pro-D	DEPTH TO WATER (ft.)				
Reader Vieturi III NA DKC: NA IK. Goodman L.Hg. 1786 E State State DESCRIPTION REMARKS E State DESCRIPTION Remark witcling on the commutation react. witcling on the commutation react. witcling on the commutation react. witcling on the coarse gravel, 25%, fine to coarse gravel, 20% (so plastic) fines, subangular to angular, contains cobles up to 1* diameter, gravel is fine-grained dark gray rock. REMARKS 1 - <t< td=""><td>SAMPLING METHOD: Geor</td><td>probe macro-core sampler [4' x 1.5"]</td><td>Z. Satterwhite</td><td></td><td></td></t<>	SAMPLING METHOD: Geor	probe macro-core sampler [4' x 1.5"]	Z. Satterwhite				
E to get and set of the set	HAMMER WEIGHT: NA	DROP: NA		SIONAL:	REG. NO. L.Hg. 1786		
15 OAKBOREV (REV. 3/00	HLGE H	 POORLY GRADED GRAVEL with SILT and S very dark gray (10YR 3/1), dry, 65% fine to co fine to coarse sand, 10% nonplastic fines, sub contains cobbles up to 1' diameter, gravel is fit gray rock SILTY SAND with GRAVEL (SM): black mott (10YR 2.5/1), moist, 50% fine to coarse sand, gravel, 20% low plasticity fines POORLY GRADED SAND with GRAVEL (SF 5/3), moist, 50% fine to coarse sand, 45% fine 5% nonplastic fines, subrounded to rounded SILTY SAND with GRAVEL (SM): black mott (10YR 2.5/1), moist, 50% fine to coarse sand, 45% fine 5% nonplastic fines, subrounded to rounded SILTY SAND with GRAVEL (SM): black mott (10YR 2.5/1), moist, 50% fine to coarse sand, gravel, 20% low plasticity fines, white speckles WOOD light brown moist, large chunks, not p becoming silty and wet dark greenish-black sulfur odor horizon with rewoodchips WOOD black mottled dark red (10YR 2/1), wislight odor 	AND (GP-GM): barse gravel, 25% bangular to angular, ne-grained dark led gray and brown 30% fine to coarse ?): brown (10YR to coarse gravel, led gray and brown 30% fine to coarse ?): eaty				
	15				OAKBOREV (REV. 3/00)		
Geomatrix Consultants Project No. 10131.000 Page 1 of 1		Geomatrix Consultants	Project No. 10 ²	131.000	Page 1 of 1		

PROJECT: MJE Ana		'ard Vashington		Log of I	Bori	ng No.	PP-37		
BORING LOCATIO			1210358 13		VATION AND DATUM:				
BORING LOCATIO		55211.70, E	1210358:15	Not surveyed; dat	um is				
DRILLING CONTR	RACTOR:	Cascade D	rilling, Inc.	DATE STARTED: 3/22/06		DATE FINI 3/22/06	SHED:		
				TOTAL DEPTH (ft.):		MEASURI	NG POINT:		
DRILLING METHO	DD: Dire	ect push		12.0		Ground			
DRILLING EQUIP	MENT: P	ower Probe	9630 Pro-D	DEPTH TO WATER (f	F V	IRST 3.0	COMPL. NA		
SAMPLING METH	IOD: Ge	oprobe mac	cro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite					
HAMMER WEIGH	T: NA		DROP: NA	RESPONSIBLE PROF K. Goodman	ESSIO	NAL:	REG. NO. L.Hg. 1786		
DEPTH (feet) Sample No. Sample	Blows/ 6 Foot OVM RFADING	(mqq)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte	nsity, structure, r.		R	EMARKS		
Sar CI			Surface Elevation: Not s	urveyed					
		(10 sai	TY GRAVEL with SAND (GM): very dark OYR 3/1), dry, 45% fine to coarse gravel, 35 nd, 20% nonplastic fines, subrounded to ar obles up to 1' diameter, gravel is fine-graine	gray mottled brown % fine to coarse igular, contains					
3- 4- 0.4 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-			TY SAND (SM): greenish black (10Y 2.5/ arse sand, 40% low plasticity fines, 10% fin			no recover	ry from 4 to 8' on		
4 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			OOD dark reddish brown and black moist, f ntains red bits like paint	ine, very slight odor,					
8 - 0.8-2-6-44		50' pla	TY SAND with GRAVEL (SM): very dark of % fine to coarse sand, 30% fine to coarse of sticity fines, white speckles		 _ _				
9- ^L 10- 11- -		W	nch hc-like odor and sheen OOD dark reddish brown and black moist, f ntains red bits like paint	ine, very slight odor,					
12			ttom of boring at 12.0 feet. Boring backfille ntonite chips.	d with hydrated					
	1	1							
15							OAKBOREV (REV. 3/00)		

		Geomatrix Consultants	Project No. 2	10131 000	Page 1 of 1
1- 2- 3- 4- 0 [°] F [*] 8 [°] C-dd 6- 7- 8- 0 [°] B [*] 8 [°] C-dd 9- 10- 11- 12- 13- 14- 13- 14- 15-		POORLY GRADED GRAVEL with SILT a very dark gray (10YR 3/1), dry, 65% fine fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel gray rock POORLY GRADED SAND with GRAVEL 5/3), moist, 50% fine to coarse sand, 45% 5% nonplastic fines, subrounded to round dark brown organic silt SULFUR yellow (5Y 8/6), moist, 60% fine sulfur, 40% fine angular gravel of sulfur, o WOOD dark reddish brown to brown wet, WOOD dark reddish brown to brown wet, SANDY SILT (ML): greenish gray (10GY 30% fine sand, low plasticity, firm Bottom of boring at 12.0 feet. Boring back bentonite chips.	to coarse gravel, 25% subangular to angular, is fine-grained dark (SP): brown (10YR fine to coarse gravel, led e to coarse sand of dor fine and peaty, odor		OAKBOREV (REV. 3/00)
Cfeet) (feet) No. Blows/ Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast cementation, react. w/HCl, geo Surface Elevation:			REMARKS
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROF K. Goodman	ESSIONAL:	REG. NO. L.Hg. 1786
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		I
DRILLING EQUIPMEN	T: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft	FIRST	COMPL.
DRILLING METHOD:	Direct p	ush	TOTAL DEPTH (ft.): 12.0	MEASU	RING POINT: d surface
DRILLING CONTRACT	OR: Cas	DATE STARTED: 3/22/06		INISHED:	
BORING LOCATION:	N 55516	9.40; E 1210368.40	ELEVATION AND DAT Not surveyed; date		surface
Anacor	orth Yard tes, Wasl	nington	Log of E	Boring No	D. PP-38

	orth Yard tes, Wasł	nington		-		o. PP-39	
BORING LOCATION:	N 55518	80.95; E 1210135.41		ELEVATION AND DATUM: Not surveyed; datum is ground surface			
DRILLING CONTRACT	FOR: Cas	scade Drilling, Inc.	DATE STAF			INISHED:	
DRILLING METHOD:	Direct p	ush	TOTAL DEF 12.0	PTH (ft.):	MEASU Groun	RING POINT:	
DRILLING EQUIPMEN	IT: Powe	r Probe 9630 Pro-D		WATER (ft.)	FIRST ~5.5	COMPL. NA	
SAMPLING METHOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED B	vhite			
HAMMER WEIGHT:	NA	DROP: NA	RESPONSII K. Goodn	BLE PROFES N <mark>an</mark>	SIONAL:	REG. NO. L.Hg. 1786	
PEPTH PE	OVM READING (ppm)	NAME (USCS): color, moist, % by wt., plast. c cementation, react. w/HCl, geo. ir Surface Elevation: No POORLY GRADED GRAVEL with SILT an very dark gray (10YR 3/1), dry, 65% fine to fine to coarse sand, 10% nonplastic fines, s contains cobbles up to 1' diameter, gravel is gray rock SILTY SAND with GRAVEL (SM): brown (55% fine to coarse sand, 30% rounded to s coarse gravel, 15% low plasticity fines SILTY GRAVEL with SAND (GM): dark gree 4/1), moist to wet, 55% fine to coarse grave sand, 15% low plasticity fines, subrounded to	eenish gray (50 el, 30% fine to co	25% ngular, ark st, st, to		REMARKS	
7 - 7 7 - 7 8 - 39-6:5 - 8 - 8 - 8 - 9 - 8 - 1 - 7 - 7 - 7 - 8 - 1 - 8 - 8 - 1 - 8 - 8 - 1 - 8 - 1 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8		SILT (ML): greenish black (10Y 2.5/1), mo plasticity, soft	ist, 100% fines,	low	-		
9- - 10- - 11- -		SILT with SAND (ML): greenish gray mottle (10GY 5/1), moist, 70% fines, 20% fine to c subangular fine to coarse gravel, low plastic trace dark brown rootlets, also contains incl mica/metallic sand	coarse sand, 10 ⁰ city, hard, contai	% ins			
		Bottom of boring at 12.0 feet. Boring backfi bentonite chips.	illed with hydrat	ed			
		Geomatrix Consultants	P	roject No. 10'	131.000	OAKBOREV (REV. 3/00) Page 1 of 1	
,			¹				

	orth Yard rtes, Washi	inaton	Log	of Boring No	o. PP-40
		5.56; E 1210163.65	ELEVATION AND		_
Borting LooAnon.	11 000 100	5.50, E 1210105.05	DATE STARTED	; datum is ground	surface
DRILLING CONTRAC	TOR: Case	cade Drilling, Inc.	3/22/06	3/22/0	
DRILLING METHOD:	Direct put	sh	TOTAL DEPTH (1 12.0	ft.): MEASU	IRING POINT:
DRILLING EQUIPMEN	NT: Power	Probe 9630 Pro-D	DEPTH TO WAT	ER (ft.) FIRST ~7.5	COMPL. NA
SAMPLING METHOD	Geoprob	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE F K. Goodman	PROFESSIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet) Sample No. Sample Blows/ Ecot	OVM OVM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo. Surface Elevation: N			REMARKS
		POORLY GRADED GRAVEL with SILT a	,		
	-	very dark gray (10YR 3/1), dry, 65% fine t fine to coarse sand, 10% nonplastic fines, contains cobbles up to 1' diameter, gravel gray rock SILTY SAND with GRAVEL (SM): brown	o coarse gravel, 25% subangular to angula is fine-grained dark mottled gray and olive	ar,	
3-		(10YR 4/3), moist, 55% fine to coarse san subangular fine to coarse gravel, 15% low		_	
4 5 5 4 4 4 4 4 4 4 4 4 4		WOOD black to dark reddish brown (10Y	R 2/1), moist		
9 - 9 - 9 - 9 - 9 - 1 -		LEAN CLAY (CL): dark gray moist, low pla			
9-40-8.0 8- 		SILTY SAND (SM): olive gray (5Y 4/2), rr coarse sand, 20% low plasticity fines, cont woodshards, sheen and odor		to	
		SILT with SAND (ML): greenish gray mott (10GY 5/1), moist, 70% fines, 20% fine to subangular fine to coarse gravel, low plast trace dark brown rootlets, also contains in mica/metallic sand	coarse sand, 10% icity, hard, contains		
		Bottom of boring at 12.0 feet. Boring back bentonite chips.	filled with hydrated		
14-				-	
15			I	1 I	OAKBOREV (REV. 3/00)
		Geomatrix Consultants	Project	t No. 10131.000	Page 1 of 1

PROJECT: MJB North Yard Anacortes, Washington						Log of Bo	oring No	. PP-41
BORIN	G LOO	CATI	ON:	N 55507	/8.90; E 1210275.33	ELEVATION AND DATUM Not surveyed; datum		surface
DRILLI	NG CO	DNTI	RACT	OR: Cas	cade Drilling, Inc.	DATE STARTED: 3/22/06	DATE FIN 3/22/06	NISHED:
DRILLI	NG MI	ETH	OD:	Direct p	ush	TOTAL DEPTH (ft.): 6.0	MEASUR	NING POINT:
DRILLI	NG EC	QUIP	MEN	T: Powe	r Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST NA	COMPL.
SAMPL	ING N	/ETH	HOD:	Geopro	be macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite		
HAMM	ER WI	EIGH	IT:	NA	DROP: NA	RESPONSIBLE PROFESS	SIONAL:	REG. NO. L.Hg. 1786
DEPTH (feet)	Sample No.	Sample T	Blows/ S Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter. Surface Elevation: Not sur			REMARKS
					POORLY GRADED GRAVEL with SILT and S/	AND (GP-GM):		
-	-				very dark gray (10YR 3/1), dry, 65% fine to coa fine to coarse sand, 10% nonplastic fines, suba			
1-	ы				\setminus contains cobbles up to 1' diameter, gravel is fine			
2-	PP-41-1.5				\gray rock POORLY GRADED GRAVEL with SILT and S/			
2-	14	$\left(\right)$			brown (10YR 4/3), moist, 50% subrounded to a coarse gravel, 40% fine to coarse sand, 10% lo			
3-		IV.					_	
-	-	$ \rangle$			SILTY GRAVEL with SAND (GM): dark brown		- 	
4-	0	/ \			greenish gray moist, 60% fine to coarse subang gravel, 20% fine to coarse sand, 20% low plasti		_	
-	PP-41-4.0						_	
5-	ЧЧ						_	
-							_	
6-					Bottom of boring at 6.0 feet due to refusal. Boring at 6.0 feet due to refusal.	ing backfilled with		
7-							_	
-	-						_	
8-	-							
9-							_	
	-						_	
10-							_	
-							_	
11- _								
12-							_	
_							_	
13-							-	
-							-	
14-								
15-								
					Geomatrix Consultants	Project No. 101	31 000	OAKBOREV (REV. 3/00) Page 1 of 1
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PROJECT: MJB North Ya Anacortes, Wa		Log of Be	•	. PP-42	
BORING LOCATION: N 555	5105.54; E 1210307.90	ELEVATION AND DATUM Not surveyed; datum		surface	
DRILLING CONTRACTOR: (Cascade Drilling. Inc.	DATE STARTED:	DATE FINISHED:		
DRILLING METHOD: Direct		3/22/06 TOTAL DEPTH (ft.):		RING POINT:	
		12.0	Groun	d surface	
DRILLING EQUIPMENT: PO	wer Probe 9630 Pro-D	DEPTH TO WATER (ft.)	~7.0	NA	
SAMPLING METHOD: Geo	probe macro-core sampler [4' x 1.5"]	LOGGED BY: Z. Satterwhite			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES	SSIONAL:	REG. NO. L.Hg. 1786	
DEPTH (feet) No. Foot Foot COVM READING	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, ged	t. density, structure, . inter.		REMARKS	
	Surface Elevation: POORLY GRADED GRAVEL with SILT :	Not surveyed			
$ \begin{array}{c} - \\ 1 - \\ - \\ 2 - \\ - \\ 3 - \\ - \\ 3 - \\ - \\ 3 - \\ - \\ - \\ - \\ $	 very dark gray (10YR 3/1), dry, 65% fine fine to coarse sand, 10% nonplastic fines contains cobbles up to 1' diameter, grave gray rock POORLY GRADED GRAVEL with SILT : brown (10YR 4/3), moist, 50% subround coarse gravel, 40% fine to coarse sand, 1 greenish gray and black with concrete gra greenish gray and black with concrete gra 2/1), wet, 80% fine to coarse angular gra sand dark brown woody layer with silt SILT with SAND (ML): greenish gray mo (10GY 5/1), moist, 70% fines, 20% fine to subangular fine to coarse gravel, low plas trace dark brown rootlets, also contains in mica/metallic sand Bottom of boring at 12.0 feet. Boring bac bentonite chips. 	to coarse gravel, 25% , subangular to angular, l is fine-grained dark and SAND (GP-GM): ed to rounded fine to 0% low plasticity fines avel avel 0 (GP): black (10YR ivel, 20% fine to coarse ttled yellowish brown o coarse sand, 10% sticity, hard, contains nclusions of green		OAKBOREV (REV. 3/00)	
		_		OAKBOREV (REV. 3/00)	
	Geomatrix Consultants	Project No. 10 ⁻	131.000	Page 1 of 1	

PROJECT: MJB North Yard Anacortes, Washington						L	.og of Bo	ori	ng No.	PP-43		
BORIN	G LOC	ATI	ON:	N 55507	78.28; E	1210334.54			N AND DATUM		around s	urface
DRILLI	LING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: 3/22/06								DATE FINISHI 3/22/06			
DRILLI	NG ME	ETH	DD:	Direct p	ush			TOTAL DE 12.0	EPTH (ft.):			NG POINT: surface
DRILLI	NG EC	QUIP	MEN	T: Powe	r Probe	9630 Pro-D			O WATER (ft.)		IRST 7.0	COMPL. NA
SAMPL	ING N	1ETH	IOD:	Geopro	be mac	ro-core sampler [4' x 1.5"]		LOGGED Z. Satter		ļ		
HAMM	ER WE	EIGH	IT:	NA		DROP: NA			BIBLE PROFES	SIOI	NAL:	REG. NO. L.Hg. 1786
DEPTH (feet)	Sample No.	Sample Id	Blows/ S Foot	OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt., plast cementation, react. w/HCl, geo. Surface Elevation: N	t. densi . inter. Not surv	ty, structure			F	REMARKS
	PP-43-6.0 PP-43-4.0				dar 3/2 109 to 1 cru WC	ORLY GRADED GRAVEL with SILT a k grayish brown mottled greenish gray), moist, 65% fine to coarse gravel, 25% % nonplastic fines, subangular to angul I' diameter, gravel is fine-grained dark (shed concrete	and d % fine lar, co gray ro	lark browr to coarse intains col ock, conta	n (10YR sand, obles up ins		due to co Two atten	s lots of refusal hcrete chunks. hpts to obtain covery from 0 to
						ttom of boring at 12.0 feet. Boring back ntonite chips.	KTIIIEO	with hydra	ated	_		
15-												OAKBOREV (REV. 3/00)
					Geom	atrix Consultants			Project No. 101	31.0	000	Page 1 of 1

PROJECT: MJB North Yard Anacortes, Washington		Log of B	Log of Boring No. PP-44		
BORING LOCATION: N 555053.71; E 1210304.85			ELEVATION AND DATUM: Not surveyed; datum is ground surface		
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 3/22/06	DATE STARTED: DATE FINIS 3/22/06 3/22/06		
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 12.0	TOTAL DEPTH (ft.): MEASURING POINT: 12.0 Ground surface		
DRILLING EQUIPMENT: Power Probe 9630 Pro-D		DEPTH TO WATER (ft.)	FIRST ~3.0	COMPL.	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: Z. Satterwhite			
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES	SSIONAL:	REG. NO. L.Hg. 1786	
DEPTH (feet) No. Sample Sample Foot COVM	E DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo.	density, structure,	F	REMARKS	
0 is 2 is is 0 1 - - - - - 2 - - - - - 3 - - - - - 3 - - - - - 3 - - - - - 4 - - - - - - 5 -	Surface Elevation: N POORLY GRADED GRAVEL with SILT at dark grayish brown mottled greenish gray 3/2), moist, 65% fine to coarse gravel, 25% 10% nonplastic fines, subrounded to angu up to 1' diameter, gravel is fine-grained date crushed concrete black concrety asphalt layer SILTY GRAVEL (GM): greenish black (10 to coarse gravel, 30% low plasticity fines, 1 sand, 5% woodshards, subangular to angu SILTY GRAVEL (GM): greenish black (10 to coarse gravel, 30% low plasticity fines, 1 sand, 5% woodshards, subangular to angu Bottom of boring at 12.0 feet. Boring back bentonite chips.	and dark brown (10YR 6 fine to coarse sand, lar, contains cobbles rk gray rock, contains DY 2.5/1), wet, 50% fine 15% fine to coarse ular		ttom of sampler.	
15		Device (N = 40	121.000	OAKBOREV (REV. 3/00)	
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