G	E	OS	CIE	NO	CE		Project: RBF/MPWSP Monitoring Well Project No.: 13027-14	LOG OF BO		5
Location	on N	1 W 1 -	5 (0)		\		Date(s) 12/16/14	Drilling Contractor (ASCADE	Bearing (Azimuth	1
	Surfac		(0	26 A			Logged A. KHALI6141	Dall Rg Type ProSourc 6007		
Horizon	ntal/Ver	tical +	36,7180	60		4	Reviewed	Borehole Diameter (in) 12"->	Total Depth (fi	
Datum	T	S	ample Info	rmati	on		by	Annual Control of the	Departu	
Depth (ft)	Notes	Penetration (Graphic)	Blows per 6 ins	Penetration (in)	Recovery (in)	Geologic Unit	Subje	NTIAL DRAFT ct to Revision IAL DESCRIPTION	S	OIL COLOR
[0		À	SP	Т		. :	SAND (TOP. SOIL): 95	51 5AND + 51 SILT; F	-m° 73	5 YR 2:5
-1-2							POORLY GRAT	DO TOW DENSITY MOIST, (Fm):	SnowN
- 3			SP			3	SAND: 100's SAND;	F. W/ TRACE M. POORL	GANICE Y	5 YR 4/
5 =	-						110/31 (Q.F.).	MO) - UNCONSOLIDATED?	5	TRONG
- 6 - 7 8	A		SP			1,121,1		MINITRALE F.; POORLY PND; UNTONSOLIDATED;	10 ye	YR YH LLOWISH - BROWN
- 9 - 10 - 11 - 12 - 13	1 - 7 CORE		SP					PANG-SUBERND; POIST; (Q.F).	10	DIR 5/6 LLOWISH BROWN
14 - 15 16	1		SP-SC				F-M; POORLY GRAD L-M PLASTICITY: L.	SAND; 10% CLAY; ST DED: SUBANG - SUBPRI DENSITY: MOIST; (Q.F	Pi ST	SYR YE NONE BROWN
- 18 - 19 - 20 - 21	CORE		SC			111111111111111111111111111111111111111	51. SILT; F-M, F	POORLY GRADED SURANTICITY; L. DEMSITY; MC	ST. S	SYR STE IRONG Shown
22 23 24 25 26 27	241-17		SP-SA	1			SAND W/ SILT & SAND: 85% SAND; F-M; POORLY GIND UNRONSOLIDATED; L-M DENSITY; MO	DED SUBANG-SUBEN	7	JE J4
28 ⁻ 29 30	X		SP				SAND: 1001. SND: VF-	-FGRAINED, POORLY GRA UNICONSOLIPATED; MOI	Am.	YR 6/8

NOTE: SP (USES) = POORLY GRADED" = WELL "SOFFED"

G	EO	SC	IEI	VC	E		Project: RBF/MPWSP Exploratory Boreholes	LOG OF BOR	
							Project No.: 13017-13	SHEET 2 (11 170
Location		W-	-5	DE	+ F	>	Date(s) 12/17/14	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
Ground Elevatio		6	681	A	Ms	_	Logged A, KHALIGHI	Type P.S. 600T	Plunge (Degrees) Vert
Horizont Datum	al/Vertica	al					Reviewed by	Borehole Diameter (in) 2" → 0¾4"	Total Depth (ft)
(I)	Notes		Slows per 6 in. ald	Penetration (in)		Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
Depth (ft)	Notes	уреа	slows p	enetra	Recove	seolog			
_ 30	2 0		ш		u.	_			
31	X		SP				SAND: 100% SAND; VF-	GRAINED POORLY	10 YR 6/8 Brownist+
- 33 - 34 - 35							MOISTS (OFM).	UISEND, UNCONSOLIDA	ATROVELLOW.
- 36 - 37							4- SAME AS ABOVE	E (AND), MOIST-WE	T
38 - 39									
- 40- - 41				-					
- 42 - 43 - 44			SP				SAND: 95%, SAN POORLY GRADED; S UNCONSOLIDATED;	D+S/. SILT; VF-F, GUBANG-SUBRND; MOIST-WET (Q.F.N	
- 45 - 46			SP			パラス	SAME AS ABOVE.		10 YR 4/6
-47 - 48 -						H	C. 24.2.		DIAK YELLOWISH BROWN
49 50 - 51			SM				SILTY SAND: 201. C VF-F; POORLY GRADES NON-PLASTIC; UNICONS (QFM),	SAND + 20%, SILT, SURANG-SURRND; OLIDATED; MOIST-WE	IDMA HI.
52 53 54			Wr				SILT W/ CLAY & SAND CLAY + 10% SAND SUBMIG-SUBRIND; ME	VE POORLY GRADED	GRAY
55 - 56 -			SM SP				DENSITY MOIST (OF SILTY SAND: 70% SAND + 80% S SUBANG-SUBEND; NON-PLASTIC SAND; 100% SAND; VF-F; PA	: UNCONSOL - MOIST (QFM).	VRY DARK GRY
57 58	H		CL				SAND UNIONSOLIDATED; MI CLAY: 65%. CLAY + 30% SAND + 5 SUBMIC-SUBRIP; MEDIUM P	DIST-WET; (QFM).	PICK YELLOWISH - G
59	6		CL				CLAY W/ SMD/SIET: 90% VF-F; FOOLY GMDED; SURDA	EDAY + 5% SAND +5%	10. GLEYA 5/10G.

NOTE: From 0'-47' SOIL INSIDE CORE BOXES ARE NOT REPRESENTATIVE

G	EC	SC	CIE	NO	CE		Project: RBF/MPWSP Exploratory Boreholes	LOG OF BOF	RING
							Project No.: 13017-13	SHEET 4 C	F 15
Location	N	W.	-56	CUI	?)		Date(s) Drilled 12-19-14	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
Ground Elevation	Surface n (ft)	6	624	- A	MS	_	Logged A. IXHALIGHI	Drill Rig Type 600T	Plunge (Degrees) Vert
Horizont Datum	talVertic						Reviewed by	Borehole Diameter (in) 12" -> 103/4 -> 93/8	Total Depth (fl)
Depth (ft)	Notes	Penetration (Graphic) Sype and No.	Blows per 6 in.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
90		1	SP	Ι	T	5.	SAND: SAME AS	AROVE.	25405/6
91 - 92 - 93 - 94 - 95 - 96	X		SP.		-	2089X X 2000	SAND: 1007. SAND; SUBANG-SUBROUP; COFA)+ FINE SHELL LESSER QUAN	582	104R 44
97 - 98 - 99 - 100 - 101 - 102 - 103 - 104 - 105 - 106	×		SP			があるないないは、対心のはつスキンの	SAND: 100% SAND SUBANG-SUBAND; L (QFA) JUF-M SHELL F		2.5YR 5/3 LIGHT OLIVE BROWN
107 - 108 - 109 - 110 - 111 - 112 - 113 - 114 - 115 - 116 - 117	×		SP					3016	2,5 yr 5/2 LIGHT OLIVE BROWN 2,5 yr 5/2
118 119 120			SP		Tara t		SAND: 1007. SANT POORLY GRADED; SABAI MOIST; (QFA)+(M-C	O; M. WY TRACE F.	ICATED.

	G	EC	SC	CIEI	NO	E		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOI	
	Location	1 /	MW	1-5	Des	P	_	Date(s) Drilled	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
	Ground S Elevation	Surface	7.77		Dee	1		Logged A. KHALIGH	Drill Rig Type	Plunge (Degrees) Vert
	Horizont		al					Reviewed	Borehole Diameter (in)	Total Depth (ft)
	Daum		Sam	ple Info	rmatio	on		by	Charles the con-	Dept. (k)
	Depth (ft)	Notes	Penetration (Graphic) Type and No.	Blows per 6 in.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
70	120		N .		П			10 A C C C C C C C C C C C C C C C C C C		0
9	- 121			-						
	- 122									10 2.5 YR 5/4
F	- 123	V		SP				SAND: 1007, SAN	D' IN MILENCE I	46147
-	124	\sim						POORLY GRADEP; SW	BANG-SUBRND;	BLOWN
1	125							UNCONSOLIDATED, M	OIST-NOT; (OFA+	15100314
7	126							POORLY GRADED; SWELL FRAGM	ENTE?), SATURATED.	
4	127 128	WICH STATE					D			2.54R 5/3
	- 129						0.000	70%. SAND + 25%. GRI	WEL + 57, COBBLES!	LIGHT
	130 -			SP			100	F-C CAND' F-C GAR	VEL POORLY GRADED!	OLIVE
	131	X) (-	4	SUBANG-SUBRND; UN	ICONSOLIDATED! (QFM SFA SHELLS?) SAIMATED	V) BUONN
	- 132-						1			
	133		1	SP			0.0	SAND W/ SILT & TRA	CE GRAVEL: 801. SANT	2.5 yr 5/6
	- 134						0.0	SAND F-C GRAVEL	POORLY GLADED. LINCOL	SOC LIGHT OLIVE
	- 135	X					00	GRAVERLY SAND W/ TAKE (OBBLES;	M SAND SIZED SHELLS?)	Brown
7	136			SPZ			00	757. SAND + 20%, GRAN	JATURAJE	2.5 YR 5/
1	137		7				500	M-C SAND: F-C SAN	D. POORLY GRADED.	116117
4	- 138						8	UNCONSOLIDATED: (O #	FMA) + (M-C SAND SIZED HELL FRAGMENTS?): SATU	OLIVE Brown
	139			-			96	SAND WI THATE GLA	JEL' 97% SAND + 3% GA	NUFY 2. TYR 5/4
	140	\vee		SW			0	F=RA=C SAND; F GRAVEL; UNCONSOLIDATED; (QFMA)	POTENTIALLY WELL GRADED	LIGHT OLUL
	- 141 -			-	-		2.5	UNCONSOLIONIEIT; (QTNIA)	TIM-C SHAD SIEED SHEED,	Stown
	142						lid.	1800		
	143	V						. W.L.A.		2.54R 4/4
	- 144					102	**			3 0
	145			SP		6	'nť,	2440: 1001: 24MD;		Brown
17	146		N	31			10	GRADED SUBANGULAL-	SKERNDED; UNTONSOLIDA	reid;
-	147						17	(QFMA); MOIST-WET.	4	
T	148							40	L NOTE: NO SHELLS VISIBLE	
	150						11		VISIBLE.	

	G	EC	osc	CIE	NC	E	78	Project: RBF/MPWSP Exploratory Boreholes	LOG OF BOR		
		1	1 10					Project No.: 13017-13	SHEET 6 O	Bearing	
	Cround		VW			EP		Date(s) Dated 12 - 19-14 Logged 4	Drill Big /	(Azimuth) Plunge (Degrees) Vert	-
	Horizon		* 7/6	6 9+	Ar	NS	L	by A, KHALIGHI Reviewed		(Degrees) VEIT Total Depth (ft)	1
	Datum		Sam	ple Info	rmatic	on		by	Material Control of States	Depth (ft)	1
	Depth (ft)	Notes	Penetration (Graphic) Type and No.	Blows per 6 in.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR	
T	T 150		li l				· ·			2 5 4 9 4	
47.00	- 151							SAND: 100% SAND; F.	GRAINED; POORLY GRADED;	2.54R 4/4	
CORE 57'-147	- 152			SP				SUBANG-SUBRND; UN	CONSOLIDATED; (OFMA);	BIOWN	
5	153							INO S	HELS VISIBLE HERE.	Howara	
1GAO	- 154 - 155						or:			7 546 11/	15
55-156	- 156	X		SP			0.	SAND W/ GRAVEL &	MART COBBLES:	2,57R4/4	
V	157		ļ.				o :	F-C GRAVEL; PODRLY	L+ 5%, COBBLES; M-C SA GRADED; SURANG-SUBER FMA+(F-M SAND SIZED MOIST TO WET.	NO BROWN	
SAC	158						0.0	UNCONSONIDATED; (QI	FMA+(F-M SAND SIZED	101014	
1'-162'	159						Ŭ.	SHELL FRACMENTS?) N	NOIST TO WET.		
CORF	160						0.0				١.
0	161						20				16
57	- 162	X	8	SP			2000		COBBLES: 501. SAND		
531-153	163						0	COOLEY POORLY GAAD	CORRLES, C. SAND, 1-C	VR.5/	
	164					9	A. A. A.	SUBRND W/ SOME P	(ODRLES; C. SAND; F-C ED; MOSTLY SIRANG- ING & RND ENAIGEL/COB		
-	- 165			SP			30	UNCONSOLIDATED; (O	FMA), BATATCATED.		
1	166			3+			0	GRAVELLY SAND Y	N/ COBBLES; 651 SAM	JD +	
7	167	-	11.4 10.1				30	30% GRNGL + 5%.	COBBLES; SAME AS		
T	168						0:	r-cove,		2 = 110 6/	16
h.	169						16.4	5000.000	E LA GRAINED' PARCIN	2.5 YR 6/4	
CORE	170						7	CHAPED, CHORNE - CH	F-MGRAINED; POORLY	D YELLOWISH	-
4. 1. Eg	171	X					100	(QF); SATULATED.	, , , , , , , , , , , , , , , , , , , ,	Brown	
, 19	172						5.4	10.1100			
1	173		Á				11				
A.	174			47			6.7				
	175						70				
V	176						*				
	177		V	CH				SILTY CLAY: 80%. CLA	THY + 20% SILT; M-H THY DENSE; MOIST; HAS L-OKIDE STAINING,	2.5 YR 5/3	17
187-177 CORE	178		ß	SP				SAND: PLASTICITY V	COKIDE STAINING.	BUOMY OF A	
800	179			ML				100%. SAND: DA-C	GRAINED' POORLY	2.5 YR 5/4	17
	100	65	44					COLADED, SUBANG	- SUBEND GRAINS.	LICHT DILLE	
								CLAMEN SUT. DO	MURATED; (QF+M. SHELLS). I. SILT + 201 CLAY, L-	20pulal	117
								PLASTICITY; L-M DI	ENSITY; BED BBLACK STAININ	16, GRAYIGH-BRN	1 '

	G	EC	SC	IEI	NC	E		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOP	Market State Control of the Control
	Location		W-!	5 6	FE	P\		Date(s) 12 - 20 - 14	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
	Ground :	Surface	1	668			-	Logged A. KHALIGHT	Drill Rig GOOT Prosonic	Plunge (Degrees) Vert
	Horizont Datum			600	ic A	10.7		Reviewed	Borehole Diameter (in) 12 - 1024-7 972"	Total Depth (ft)
	Datum		Samp	ole Info	rmatic	on	\Box	by	AND	Departito
	Depth (ft)	Notes	Type and No.	Blows per 6 in.	Penetration (in)	Recovery (in) N	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
67	180		8					CHANEY SILT : DAY	SILT + 20% CLAY: L-M	25455/
CORE	181			ML				PLASTICITY: L-M DEMSITY;	HAS REDDISH FE-OKIDE	2.5 YR 5/2 GRATISH-BRN
177	- 182 ·			SP	-	Щ	\vdash	GRAJELY SAND W		
7-17	- 183			01		300		80% SAND + 15% GROJE	L + 5, Cass. F. M-C	2.5YR 4/3 OLIVE BRN
20	184		1			0.		SAND : F-C GRAJEL : IN	POORLY GRADED	O-11C DKN
	185	X				.0				
V	- 186 - 187					0		SAME AS ABOVE: 70%	SAND+ 251. GLAVE	
4	188	1				60			+5% (OBBLE.	
	189					2.3				
ORE	190			SP		23.64		- SAME AS AROVE; 1	MCLUDIS ONE 6" THICK	
9	191					Frais		POCKET OF CLAY; WICH	UDES CLASTS OF GNAVEL	
4	- 192					12/2/2		CLAVEY SAND IN CRAV	IEL & TRACE SILT: 55%. SI	40104
0	193			SC				+25% CLAY + 15% GRAJEL	+ 5% SILT : F-C SAND	* 7.541 5/6
4	194				-	4/1	+	F. GRAJEL ; MED-POOR	RLY GRADED; SUBRID- R PLASTIC! M-H CEMENTATIO	NO STRONG
	- 195			SP		2		TARCE GRAVEL (QFA); M	OIST, EM-CS/WD FROM 197-19	Brown
V	196		Ď					951. SAND+ 57. GRAVE	2. FWI TRACE MECSANI): 7 5 Ve 5/
A	197	-	70			9		F. GARTEL; POORLY G	RADED : SUBRND-RND	GRAY
	- 198 - - 199					2.5.0		CHAIR SAND WITE	CORDLES: 65% SAND	+ 10415/2
	200			c D		5.19		30%. GRAVEL + 5% COR	SOLE; M-C W/ TRACE F.	GRAYISH -
CORE	- 201			SP		93		SAND: F-C GANGL' PE	DORLY GRADED. SUBRND-R	James a Jans
4	202	X				100		OF CLAY & REPPISH Fe-	MOIST. INCLUDEDS CHUM OXIDE STAINING,	Ψ2
2	203				-	60		GRAJELLY SAND W/ TRA	CORSLES! 701 SAND	
404	204			SP		0		251, GRAVEL + 51, COR GRAVEL; POORLY GRAD	EP: SUBRND-RAD.	DARK
1	205	\triangle				6- B-		M. CEMENTATION: (QF)	A) MOIST TO WET.	YELLOWISH- Brown
V	206					3-3		SAND W/ GRAVEL!	831, SAND+ 101, GRAVE	L 104K5/2
	207	i i		SP		8-		+37 (DBBITE! M. C	I TRATE E CANDI E C	
	208			01		a		GRAVEL, POORLY GRADER	SUBRID-RID; UNCONSOL (M-SAND SIZED SHELLS?)	DATED PARTIE
	209		1-1			۸.		SAND WY TARO GRAV		man with the party of the party

	G	EC	SC	CIE	N	CE		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOR	
	Location	6	MIA	/-5	0			Date(s) 12-20-14	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
	Ground :	Surface	* (00	, 0	V.			Logged A. KHALISH	Drill Rig Type GOOT SONIC	Plunge (Degrees) Vert
	Horizont Datum		al					Reviewed by	Borehole	Total Depth (ft)
	Datum		Sam	ple Info	rmati	on			Diameter (in)	Depth (ii)
	Depth (ft)	Notes	Type and No.	Blows per 6 in.	Penetration (in)	Recovery (In)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
37	210		1	SP		.00	1	SAND W/ TRACE GRAJ	GL: SAME AS ABOVE.	10YR 5/2
CORE	211			SP					= GANNED; PEORLY GRAF, DNSOLIDATED; &FMA)	
707	-212			31	-	0	-	MOIST - WET,	ONSOLIDATED; (OFMA)	Brown
1	- 213 - 214 -			SP		0		GRAIRLY SAND W	Thase Coppler	2.5 YR 5/2
7 17	- 215	\times		٠,				701. SAND + 25% GLAY	FI + 5% COBRIES , M-	GRAYISH-BA
1	- 216					В		FID; UNKONSOLIDATE	POORLY GRADED; SUBRA	D-
Υ	217	- 1				60		2 GOVERN SANT ATO	ED; (QF), MOIST-WE	A.
9	218	-				17		SAME AS ARAJE W	1 CLUMPS OF CLAY,	
	- 219-			CH	-			CLAY WITHAR SIL	T: 95% CLAY+5% SIE	T:
	- 220		1					HIGH PLASTICITY; VE		BROWN
	- 221			CH			1			
	- 222-				-		-	7 30'1 SILT + 15'1 SA	SAND: 60% CLAYT	- 10YR 4/3
٦	- 223			WH				2/(0)1)	a 1 b 1 An - 11 O 1 As T 1	CITY BROWN
	224			, e 1 Ft				IN DENSITY, MOIS	T,	
1	- 225				_	Ш		CLAYEY SILT WY TRACE	SAND & CHAUGE	25YR 5/3
A	226			SP		رمعر		GRAVEL; F. 3 C. SAN	47 + 751, SAND + 2.5%. O (GAP GRADED); F. GRAV	FL. LIGHT OLIVE
4	- 227 - 228				-	.0	_	MOIST, M-It	PLASTICITY; M-H DEN	517/
	229	-							. (=1: =	
0	230					1		151, - 51 CRAVEL	F. W/ TRAEM-C SAND;	+ 7.57R Y6
CORE	231	X		SP				F. GRAVEL, POORLY C	MADED; SUBRND-RND;	STRONG BROWN
	232					1		NON-LOW CEMENTATION	MADED; SUBRID-RND; (QFA); MOIST-NE	<i>T</i> .
17	233									
7	234							SAND: 100% SAND	; F. GRAINED; POORLY	10YR 3/3
+77 - ±57	235							(QFMA): MOIST.	BRND; UNCONSOLIDATE	DARK
A	236					(*) 11. (*) 11. (*) 11.		(NIOISI.		Brown
A	237	- 8								
	238					Ē.				
	239	X								

MGA @ 239'-240'

	GE(OSC	CIE	NC	E		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	A-03-75-30	G OF BOF	
Loca	ation	M	N-:	Sp			Date(s) Driled Z - Z - -	Drilling Contractor Cascad	e Drilling	Bearing (Azimuth)
	und Surfac	e +/	- 662		11	-	Logged A. KHALIGH	Drill Rg	Prosonic	Plunge (Degrees) Vert
	zontal/Vert	ical	040	10 /11/			Reviewed by	Borehole Diameter (in)	1.00/012	Total Depth (ft)
Oorth (#)	Notes	Penetration (Graphic)	Blows per 6 in.	Penetration (in)		Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	Т	SOIL COLOR
- 24 - 24 - 24 - 24 - 24 - 24 - 24 - 24	41 42 43 44 45 46 47	Ped T	SP	A STANDARD STANDARD STANDARD PROGRAMMENT OF THE PRO	ř.	5	SAND: 100% SANT GIADED: SUBANG-SU (AFMA); MOIST 70 MASS COMPRISED OF SANDSTONE (ROUN DE	PERNO, UNCONSONET; ~ 101, F-C GRAPE FD) & FALIABLE	POORLY DE IDATED OF L SIZED	104K 3/3 DARK BROWN
25 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	51 52 53 54 55 56 57		SP				SAND W/ TRACE ABOVE W/ APPROX SAND: 100% SAND;			
- 26 - 26 - 26 - 26 - 26 - 26 - 26 - 26	61 62 63 64 65 66 67		SM	3.50 C			LENSE OF SAME S GRANGLS. (SUBRAD/PLI SILTY SAMD: 801. S F. GARNED; SUBANG-SU LOW DENSIT; (OMFA	AND + 20% SI	LT;	75 ye 3

	G	EC	OSC	CIE	NO	CE		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOP	-	
	Location	, 1	M	-5	DES	0		Date(s) 1-5-2015	Drilling Contractor Cascade Drilling	Bearing (Azimuth)	
	Ground Elevatio	Surface	•		Desi			Logged A. KHALIGHI	Drill Rg GOOT PROSONIC	Plunge (Degrees)	/ert
	Horizon Datum	tal/Verti	cal					Reviewed by	Borehole Diameter (in)	Total Depth (ft)	
			Sam	ple Info	rmatic	on		CONFIDEN	TIAL DRAFT		
	Depth (ft)	Notes	Penetration (Graphic) Type and No.	Blows per 6 in.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	to Revision DESCRIPTION	SOIL	COLOR
. 7	T 270		N		115				CAIR . 20' CHT.	7 -	V0 2/
Core	271							SILTY SAND: 801.			12 3/3 14-erava
	- 272			SM	1			LOW DENSITY; (OMF	SUBENO; UNKONSOLIDATE	10 w/ si	omo
163	- 273							VOI SITY (-11)	J/ /1015 1001	enny	1 59875
- 2	- 274	-	-	_	法	-	+		05: 5: 5:		
Aa # 7	- 275 - 276	X		SP				VF-F SAND; Sug,	T. 951. SAND+5), S. AHG-SUBRAD; (OMFA)	7.5	5/12 3/2
A	278				140			MOIST TO WOT.	(OMFA)	DAN	
1	279				15					1.7	crun/
COSTR	280										.,
3	281		1 _		-						~2
-4	- 282		20					SILTY SAND. 85)			Yn 3/4
-244	- 283	1		SM				VF-FSAND; SUBAN	S-SUBAND; UNCONSOL	-10 DA	nu.
-14	284				111			LOW DENSTY; (C	IFMA); MOLST-WO	T. 181	rower
20	- 285		-		17.11			Co . T		7.0	VR 31 ~ 2
1	286		Ĭ.	SP				SAND W/ TARE SILT. VF-F SAND; SUBA (OFMA); MOIS	951, SAND+51,5	LT, DAN	yn 3/3
	287			,				VI-1- SAND, SUBA	NG-SUBRND; UNGNS	040; BI	noun
4	- 288							(OFMA); MOIS	T-WET.		
- h	289										
Con	290							ш,			
7	- 291										150
AO T	292				2.3						
17-27	293	X			27						
297	- 294		100								
"	295			SP				SAND W/ TIME SIL	7. 95% SAND +5% SI	47	
4	296							SAME AS AROUS.	10/10/		
<u> </u>	297				1			200 USE			
97-277	298				1						
202	299				1						
407	L 300	L	- 1		110						

	G	EC	OSC	CIE	NC	E		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOR	Contract Contract
	Location	N	W.	-5	Deer	0	T	Date(s) Driled 1-5- 2015	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
	Ground Elevatio	Surface	100		Dea	·		Logged A. KHALIGHI		Plunge (Degrees) Vert
	Horizont	1000	cal				1	Reviewed by	Borehole 12"-2153/1-03/8 -11	Total Depth (ft)
Y	Dadiii		Sam	ple Info	rmatic	on	1	7. 175 Territor (1.50 Territor)		Depth (k)
CONT WIP"	Depth (ft)	Notes	Penetration (Graphic) Type and No.	Blows per 6 in.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
	300				7.3			WARE		
1	301				1.5					7.5 % 3/
10	302		Ž.					SAND WI TARKE SIL	T: 95% SAND+5%. SIL	7.5 123/3
304	- 303 - 304	X		SP				VF-F SAND, SUBRA	(QFMA), MOIST-WET	DARK
	305				6			CONTENSOLIDATES, ((QFMA) MOIST-WET	Brown
	306		111111111111111111111111111111111111111							
Y	307				(,)					
4	308							The state of the s		
	- 309			CL				SANDY CLAY WY TRACE	5 SILT: 801. CLAYT	54 5/4
8	310				14		_	15% SAND + 5% SILT	TO SIET: 80%. CLAYT VF-F SAND SUBANG- SUDATOD! MED-HIGH PIA RANFA); MOIST.	THOSOLIVE
4.08	- 311			J.C	17.7			LOW DENSITY (RMFA); MOIST.	100
7-1-	- 312			SC	19				5	
2	- 313				1			CLAYEY SAND WI TOU	15 VE-E: SUBDOK	5/4/4 W/
191	314							SUBRIND UNCONSOND;	L. PLASTICIN, L. DENSITY	Sporting
100 co	- 315			SP	222			SAND. 1001. SAND. F-6	MAINED; SUBANG-SUBRNS	7,542 3/3
4	316							UNCONSOLIDATOR; (OFMA); MOST-WET.	DANK BRUN
	317	/	70						No.	
8	318							SILTY SAND W/ TAI	ACE CLAY: 75% SAND	+ 2.5 YR 4/3
Col	319			SM				POORLY ENDED: Unknows	M SAND; SUBANG-SUBENE DELIDATED; N'AN PURSTIC;	OLIVE
-0	- 321							LOW DEMSITY) (OMF	A) i MOIST-WET.	Briotory
3	322							GRATELLY SAND W/	TRACE (DBBLOS; 801.54	WD 2.5 1 R 3/2
26-	323			SP	4"			+ 151, GRNEL + 51,	COBBLES F-M SAND;	DANIL
32	- 324			01	1			UNCONSOLIDATED COME	A); CHERT GRAVEL B CORSL	GRECHUIT
1	325				42			SAND SIZED SHELL TRASMI	SUTS; MOIST-WET,	Brown
23 1	326				5.7					
	327		55	SC	H	3		CLAYEY SAND WY THACE	SILT; 75% SAND+ 20% SILT	+ 11 GVA 5/2
1	328						-	L. PLASTICITY: L. DENSI	TY; (OMFA), MOIST,	BIOWN
300	329			CL				MEDIUM PLASTICITY: MET.		4/104
130	L 330 ·		N		11/1		_		AT/BLACIC ASH SPOTTING,	DARK GREENSH

	GE	osc	CIE	NO	E		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOR	
Loca	tion	MW	-5	D	e-P	,	Date(s) 1-6-2015	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
	nd Surfa tion (ft)	ce					Logged A KHALIGHI	Drill Rg Type	Plunge (Degrees) Vert
Horiz Datu	ontal/Ve m	rtical					Reviewed by	Borehole 12" -> 103/4" -> 93/6" -> 811 Diameter (in)	Total Depth (ft)
Depth (ft)	Notes	ion (Graphic) and No.	Slows perôtir.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
		Pe Pe	置	Pe	8	Ge			
33			SM				SILTY SAND: 65% SI	AND + 35%, SILT; USEND; POORLY GRADE	ED) DARK 4/4
- 33	310		57.1				UNEONSOLIDATED; NON-PL	ISTIC; LOW DENSITY; MOIS	T Brown
- 33	3		ML				CLAMEY SILT WY SAND	: LOW PLASTICIM;	GREENICH-
- 33	4		MIL	Ш			MED DENSITY; MOIS	T; INCUDES "SILTY CLAY"	inmes, Gerry
- 33 - 33	6		CL				SANDY CLAY: 607 F-M SAND, PEDRLY M. PLASTICITY! VOY NOTE: BETWEEN 331 SAND" CLUMP	CLAT + 407. SANS GRADED: SUBANG-SUBA DENSE; (OMFA); MOI	D: GLEY 1 und 2.5/10GY GREENUH-
- 33	8		,	111			SAND" CLUMP	1,5 \$ 340 SOME "CLAYE	7
- 33	9	Manage		1//					
- 34 - 34 - 34	1 2		SC				301. CLAY + 101. G F-C GANEL: POORLY UNCONSOLIDATED: LO	MAYEL: 601. SAND+ RAVEL: F-C SAND; GRADED: SURANG/SURI SUL PLASTICITY: (OMF	54 4/4 END. OLIVE
34		3		1/1/2			6 METAD	B CHEILI GRAVELY	
- 34 - 34	6		W	-			CLAYEY SILT W/ TA 30%. CLAY + 10%. SAND L. PLASTICITY; VERY	F SAND: GOT, SILT OF SAND; SUBANG-SUIDENSE; DRY	DANK GREE
34 - 34 - 35 - 35 - 35 - 35	8 9 0 1 2		CL				CLAY WITH TRACES + 5% SAND + 5%.		2.54 4/z
- 35 - 35 - 35	4 5 6		CL				SANDY CLAY W/ SIL + 15%, SILT; VF SAM LOW PLASTICITY; YE		AND GLEY 1 4/104 DARK GREENICH GRAY
35							48		

G	EC	SC	CIE	N	CE		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BOR	
Location	W.	W · 5	DEEP				Date(s) Driled - 6 - 14	Drilling Contractor Cascade Drilling	Bearing (Azimuth)
Ground S Elevation	Surface		7601				Logged A. KHALIGHI	Drill Rg ProSource 600T	Plunge (Degrees) Vert
Horizonta	000	al		_			Reviewed by	Borehole Diameter (in) 12" - 103/4" - 97/2-8	
Data		San	nple Info	ormat	tion				Depth (II)
Depth (ft)	Notes	Penetration (Graphic) Type and No.	Blows per 6 in.	Penetration (in)	Recovery (in)	Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR
- 360 - 361 - 362 - 363 - 364 - 365			CL				SANDY CLAY W/ SILT + 15', 51ET; VF SAN L-M PLASTICITY; VEY	: 501. CLAY + 351.5 D; SHEANG-SUBRAD; DENSE; DAY.	AND COLEY 1 4/104 DANIL GREANSIL GRAY
- 366 - 367 - 368		The same of	CL			_	SANDY CLAY W/ SIL +451. SAND + 51. SIL SUBANG-SUBRIND; L	T; 501. CIA, T; F. SAND;	DARIL YELLOWISH Brown
- 369 - 370 - 371 - 372			CL					ST, INCLUDES SOME SPOTS/PATCHOS (2-3 mm)	DAPIL VOLLOW BH
- 373 - 374 - 375 - 376			CL				From 371'-373 CLAY: SAME A	PARE AS ABOVE + 15%. SIL. BY, SAME PROPERTIES / COL.	T.
- 378 - 379 - 380			< L		-		M. PLASTICITY: MOIST		RUDWN
- 381 - 382 - 383			WH	413			SANDY SILT W/ CI SANDY 25', SILT; D MH PLASTICITY; LO INCLUDES CHAY CHUNK	LAY: 50%. SILT + 251. IF SAND; POOLLY GADES OW DENSITY; MOIST; IS ~ 381.5'70 392'865.	DANK YELLOWISH BROWN
- 384 - 385 - 386			CL				CLAY, MEDUATO H VERY DENSE; DRY TO	HIGH PLASTICIM;	2.5 YR 5/3 LIGHT OLIVE BROWN
- 387 - 388 - 389			CL				CLAY: SAME AS	ABOVE.	

	G	GEOSCIENCE				CE		Project: RBF/MPWSP Exploratory Boreholes Project No.: 13017-13	LOG OF BORING SHEET 14 OF \S		
	Location	N	w-	5	DE			Date(s) Drilled - 7-15	Drilling Contractor Cascade Drilling	Bearing (Azimuth)	
	Ground : Elevation	Surface	1 4 4	0 .		-		Logged A KHALLGILI	Drill Rg Pro Source 600T	Plunge (Degrees) Vert	
	Horizont Datum		al					Reviewed by	Borehole \(\frac{1}{2}\)'' = (\frac{3}{4}\)'' = 9 \\ \frac{7}{8} = \(\frac{8}{2}\)''	Total Depth (ft)	
b	Depth (ft)	Notes	Type and No.	Blows per 6 in.	Penetration (in)	Recovery (In)	Geologic Unit	CONFIDEN Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR	
70	390				777			C		1	
74	391	-	-	CL		-	-	CLAY: SAME AS ABO	OVE.	2.57R 5/3	391
200	392	- 3	-	ML	***	_	_	SANDY SILT WY CLAY . E SAND,	POORLY GARDED; NOW-PLASTIC,		1861 (835.1
_1	- 393			47				SANDY CLAY: 751 CLA	ST, BORDELLINE SM"	Brown	392'
4-0-	- 394 - 395	100		SP				DUMPH NIG / DUMP / ALE	PERSE; (QMFA); Mois		
4	- 396 - 397 - 398			SP		7	1	GRAVELY SAND: 850 M-C SAND: F-C G SAND; SUBEND-END	MAJEL: SURAN - SUR	CLEYTYON	
407'-377' (025	- 399 - 400 - 401 - 402 - 403 - 404 - 405 - 406	X		SP	O A A A A A A A A A A A A A A A A A A A			GRAVELLY SAND	W/ TANKE COBBLES, GRAVEL + 5%. COBBLES	Brown	407.5
417'- 407' CORE	- 408 - 409 - 410 - 411 - 412 - 413 - 414 - 415 - 416	\times		9	第2年 12年 12年 12日		8	SAND: F-M GRAINS POORLY GRADED; SUC UNCONSOLIDATED; (SAND SIZED SHELL	50 (90%, F+ 10%, M) BANG-SUBRND; OFMA); TANG FRAGMONTS?) WOT.	Voy OHNI Brown	, , , , , , , , , , , , , , , , , , , ,
427'-417'	418			SP				SAND: SAME AS A	BOVE.,	10 YR 3/6	

		100	- Enve							og s	
	GEOSCIENCE					E		Project: RBF/MPWSP Exploratory Boreholes	LOG OF BOR	RING	
							_	Project No.: 13017-13	SHEET 150		
4.			NN	1-5	DEE	P	1	Date(s) 1-7-15	Drilling Contractor Cascade Drilling	Bearing (Azimuth)	
- , [Ground S Elevation							ogged A. KHALIGHI	Drill Rig Pro Sonic 600T	Plunge (Degrees) Vert	
	Horizonta Datum	al/Vertic	cal			10,114		Reviewed y	Borehole 12"- 10%, -9% - 2" Diameter (in)	Total Depth (ft)	
	Depth (ft)	se	Penetration (Graphic) Sype and No.	Blows per 6 in.	Penetration (in)		Geologic Unit	Subject	TIAL DRAFT to Revision DESCRIPTION	SOIL COLOR	
	Dep	Notes	Typ	B .	Pen	Rec	Sec				
M	420		100 mm	50			T	SAND: SAME AS A	cole.	104R 3/6	1.00
9	- 422			SP	650			- SAND WI THACE	CLAYEL & COBBLE, 851.5	AND 2.5 VR 5/2	422
417 CONE	- 423			SP	000			- 101. GODA-1 - FICE	DBS.F-C SAND, F-C GARLEL, WERD - PND	GRATISH - BROWN	111.25
.()	424 -			SP	0.0			SAND WI TRACE CRAVE	-, 45%, 5MD+5% GARAGEL	2.5/2 5/2	423
130.	425 ,	X				-	-[SAND; BND GAN	SEL; UNIONSOLIDATED;	Brown Enough	
700	426		iii	SP	1 0			(QNIFA); WET.	Li 951. SND + ST. GARVEL		242
	427	7.112		26	0			M. SAND, F. GRAVEL; POO	ALIGNADED, SUZANG-SUZANG VONSOLIDATED; (QMFA)	D LIGHT	
	428				THE STATE OF THE S			CLAYEY WET.	VEONSOLIVATED; (QMFA)	Brown	4201
4	429		in the	SC	119		- 1	SAND WI GRAVEL \$	(08845: 45%, SAND+	2.5 YR 5/4	428
A	430		M		0			SAND TO CLAY + 20'1. GRAVE	L+ 10'11 COBBLES: F-M		
P 557-25	-431 -432	14		SP	Q.P			TO SUBKND SAND SA	BEND-END CHAREL	BLOWN	
5	432	- 91			- 4		7	TO SUBRND SAND SAND SAM	FA) · MOIST - NET		430
A	434			SP		L.	11	EY CALL SURANISMAN	SAND + 101. GRAVEL; M-CS	C. DECANGE	100
Core	- 435	-		-	60		4	POORLY GODDEN UNCONS	GLIVATED; (OFMA); WET	. BLACK	433
3	436				0			SUBANG-SUBRND, UNKO	MSOLIPATED; (OMFA), WE	" GREENISH GARY	435
440'-433'	437	∇	1	00	9		1	SAND W/ GRAFEL + C	COBELES; 80%, SAND +	DANIL GRAVISH	+-
140	438-		1	SP	3	1.3		Tre. W Provide	OBELES, F- C SAND;	Brown	r g m H
1	439	100			14.0	·		SHAD: SUBAND-KND 6	MASOL + COBISLES, UNCONSOL	10 ATO . D. =	14
	440				-		=	And the second second			
A (120)	441		11/2					WF-12-10-11-8-15	; TEMP CASING; NO MANULAN F	TILL	
7-438"	442							*E-Local	, , , , , , , , , , , , , , , , , , , ,		8
	- 444					****		TEMPORNEY CA	SING DETAILS (SP/G		
	445			1					1		+
	446							" HIM DIAM; SC	To Gr Fre bol		
	- 447							PVC; 0.010 SL	1000 CAL & 1/9/15		
	448							ADDED 1/20 TO	11100 54 - 1/0/15	Acres de	
	449					1		PREVENT SAND CAVINGIN, TOT			
widow:	^L 450	,					_	(0100-DRILL + 7600 C	45 16) 400 GAL -1/12/15	OVER-D	nilli
									200 GAL - 1/13/15	0 - 150 2	65 = 1C
										300-300	EW = 9