## APPENDIX C

**Boring Logs** 



				Environmer	ntal Che	mical				Job. No.	5461.004	Client	ACOE-Lo	uisville	Location CC-83	RVAAP
ECC					oration	iiiicai				Drilling Met	hod:	Direct-Pus Geoprobe			Boring No. Building 1039	SB01
			LOG O	F SOIL BORIN	NG					Sampling M	lethod:	2" diamete	r-5 ft SS sa	ampler		
	Coordin	nates: : Elevatio		X 492792.205 1028.222	Y 4557 ft msl	718.44						MacroCore	e liner		Sheet 1 of	1 Iling
		Below S			11 11131					Water Lev.	NA			T	Start	Finish
	Referer	nce Elev	ation:							Time	NA				12-Aug-13	12-Aug-13
	Referer	nce Desc	cription:							Date Reference	NA				4	
Digital	Sample	ln. Drvr	Dpth.	Sample	PID	Blows	Depth		USCS	Surface Co		Grass				
Picture #	Type	/ In. Recvrd	Csg.	Depth	(ppm)	per 6 in.	(feet)		Log							
#		60/60			0.0	NA	O	Н		Grass						
		00/00			0.0	INA	1 ~	Ή	CL	Dark grayis	h hrown silt	ty clay (10V	R 4/2) sof	t dense		
							1 1	Н	OL	Dark grayis	ii biowii siii	ty clay (101	11 4/2), 301	i, derise		
							1 '	Н								
							2	ŀН								
	ISM			1-4 ft			1 -	Н								
	10.01						3	H		Brown silty	clay (10YR	4/3) stiff c	lense dry			
							<b>1</b>	П		Drown only	olay (1011)	1,0,,0111,0	.o., a. y			
					1.2		4	П								
							1	П								
1							5	ıП								
		60/60			0.0	NA				Grading to	(10YR 5/3)	very stiff				
							6				,					
	ISM			4-7 ft				П								
	VOC			7 ft			7	· $\square$								
							8	$\sqcup$								
	ISM			7-10 ft				Ш								
							9	Ш								
								Ц								
	ISM			4-10 ft			10	Щ		End of bori	ng 10 ft bgs	1				
							ł	Н								
							11	Н								
							12	.Н								
							1 '´	Н								
							13									
							14	Ы								
								Н								
							15	Н								
							-	Н								
							16	Ή								
							4-3	Н,								
							17	Н								
							18	Н								
							1 10	Ή								
							19	Н								
							1 '	Н								
							20	Н								
							1 2	Н								
							21	П								
							]	П								
							22									
							]	Ц								
							23	Щ								
							1	Ц								
							24	Н								
Logged	l by:		J. Scott	P.G ECC			<u> </u>			Date:	13-Aug-13	3	Notes:	NA = Not	t Applicable	
	Contract		Frontz				-			Date. Driller:	Rickie Ska	anks			i Applicable iple Summary Si	heets for

Well not installed

Drilling Contractor: From WELL SPECIFICATIONS: Diam. of casing: 2" BOH: 10 ft bgs

Screen Interval: Riser Interval:

Bentonite: 0- 10 ft bgs

Sandpack:

See Sample Summary Sheets for sampling information

ISM = Incremental Sampling

Method 003 VOC sample time - 1141

										Job. No.	5461.004	Client	ACOE-Lou	uisville	Location	RVAAP
ECC				Environmer Corpo	ital Che oration	mical				Drilling Met	hod.	Direct-Pu	sh		CC-83 Boring No.	SB02
	<b>#</b>			-								Geoprobe	e 6620DT		Building 1039	
	Coordin	atos:	LOG O	F SOIL BORIN X 492790.775	IG V 4557	710 002	)			Sampling M	lethod:	2" diamete MacroCor	er-5 ft SS sa	mpler	Sheet 1 of	1
	Surface				ft msl	1 19.000	)					Macrocol	e iiriei			lling
	Casing	Below S	urface:							Water Lev.					Start	Finish
	Referen										NA				12-Aug-13	12-Aug-13
	Referen	ice Desc	cription:							Date Reference	NA NA				$\dashv$	
Digital	Sample	ln. Drvr	Dpth.	Sample	PID	Blows				Surface Co		Grass	•	•	•	<b>'</b>
Picture #	Type	/ In. Recvrd	Csg.	Depth	(ppm)	per 6 in.	(feet)		Log							
<i>π</i>		60/60			0.0	NA	0	H		Grass						
		80/80			0.0	INA	Ü	Н	CL	Dark grayis	h brown cilt	hy clay (10)	VP 4/2) coft	donco		
							1	Н	OL	Dark grayis	II DIOWII SIII	ly clay (10	111 4/2), 5011	, uerise		
							i '	Н								
					2.2		2	Н								
	ISM			1-4 ft	2.2		<b>'</b>	Н								
	ioivi			1 4 10	0.0		3	Н		Brown silty	clay (10YR	4/3) stiff	dense dry			
					0.0		Ĭ			Diowii oncy	olay (1011)	1,0), 01111,	401100, 41.			
							4	П								
							<u>'</u>	П								
2							5	П								
		60/60			0.0	NA				Grading to	(10YR 5/3).	very stiff				
		00,00					6	П			(101110,0),	,				
	ISM			4-7 ft			1	П								
	VOC			7 ft			7	П								
							1	П								
					1.0		8	П		Light gray g	ravel (N 7/²	1)				
	ISM			7-10 ft			1				,	- /				
							9	П								
							1									
	ISM			4-10 ft			10	П		End of borir	ng 10 ft bgs					
							11									
							12									
								Ш								
							13	Ш								
							1	Ц								
							14	Ш								
							1	Ц								
							15	Ц								
								Ц								
							16	Н								
								Н								
							17	Н								
							ł	Н								
							18	Н								
							l	Н								
							19	Н								
								Н								
							20	Ή								
							<u>,</u> ,	Н								
							21	Н								
							22	Н								
Ī I								$\square$								

Logged by:

J. Scott P.G. - ECC

Frontz Drilling

Drilling Contractor: WELL SPECIFICATIONS:

Well not installed

Diam. of casing: 2" BOH: 10 ft bgs Screen Interval: Riser Interval:

Date: 13-Aug-13 Driller: Rickie Skanks

Sandpack: Bentonite: 0- 10 ft bgs

NA = Not Applicable Notes:

See Sample Summary Sheets for sampling information

ISM = Incremental Sampling

Method

VOC collected at 1215

	<u> </u>			Environmer	ntal Chr	mical				Job. No.	5461.004	Client	ACOE-Lo	uisville	Location CC-83	RVAAP
ÉCC				Environmen Corpo	ntal Che oration	micai				Drilling Met	hod:	Direct-Pus			Boring No.	SB03
			LOG O	F SOIL BORIN	1G					Sampling M	lethod:	Geoprobe 2" diamete		mpler	Building 1039	
	Coordin	nates:		X 492790.775	Y 4557	719.083	3			- Camping in		MacroCore	liner		Sheet 1 of	1
		Elevation Selow S			ft msl			_		Water Lev.	NA				Start	ling Finish
	Referer	nce Elev	ation:					_		Time	NA				12-Aug-13	12-Aug-13
	Referer	ice Desc	cription:					—		Date Reference					-	
Digital Picture	Sample	ln. Drvn / ln.	Dpth. Csg.	Sample Depth	PID (nnm)	Blows	Depth (feet)			Surface Co	nditions:	Grass				
#	Type	Recvrd	Csy.	Берит	(ppm)	per 6 in.	(leet)	Ш	Log							
		60/60			0.0	NA	0	$\prod$		Grass						
				ļ		<u> </u>		Ш	CL	Dark grayis	h brown sil	lty clay (10Y	R 4/2), soft	, dense		
				ļ		<u> </u>	1	Ц								
				ļ	0.3	├──		Н								
	ISM			1-4 ft	0.0	<del>                                     </del>	2	Н								
	ISIVI			1-4 11		<del>                                     </del>	3	Н		Brown silty	clay (10YR	2 4/3), stiff, d	ense			
				ļ			ĺ	Н		Drown Sity	olay (1011)	<del>( 4,0), 3tiii, 4</del>	01100			
				ļ			4	П								
				ļ												
		<u> </u>			<u> </u>	ــــــ	5	Ш								
		60/60			0.0	NA	-	Ц		Grading to	(10YR 5/3)					
						<u> </u>	6	Н								
	ISM			4-7 ft		<u> </u>		Н								
	VOC			7 ft		<u> </u>	·	Н								
				ļ			8	Н		Grading to	very stiff					
	ISM			7-10 ft			1	П		Ordaing to	vory our					
							9									
							]			Cobble at 9	.2 ft					
	ISM			4-10 ft	<u> </u>	ـــــــ	10	igspace		End of borir	ng 10 ft bgs	3				
						<u> </u>	-	Ц								
						<u> </u>	11	Н								
						<u> </u>		Н								
						$\vdash$	12	Н								
							13	H								
								П								
				ļ			14	. 🗌								
				ļ												
				ļ		<u> </u>	15	Ц								
							-	Н								
				ļ		├──	16	Н								
				ļ		$\vdash$	17	Н								
				ļ			1 ''	Н								
				ļ			18									
						<u> </u>	19	Ш								
				ļ		<u> </u>	-	Ц								
						<u> </u>	20	Н								
						<u> </u>		Н								
						$\vdash$	21	Н								
				ļ			22	,								
				ļ			1	П								
				ļ			23									
				ļ		<u> </u>		Ш								
						<u> </u>	24	Ш								
Loggod	b. a		I Cont	t D.C. ECC		<u> </u>		Ш		Doto	12 Aug 11	<u> </u>	Notoo	NIA - Not	Applicable	
Logged Drilling	i by: Contract		Frontz	t P.G ECC Drilling			-			Date: Driller:	13-Aug-13 Rickie Ska		Notes:		Applicable ole Summary Sl	neets for
WELL	SPECIFIC	CATION		Well not instal			-						•	sampling	information	
Diam. c	of casing	: <u>2"</u> 10 ft bg		Screen Inter						Sandpack: Bentonite:		10	<u>-</u>	ISM = Inc Method	remental Sampl	ing
			<u>,                                    </u>					<u>—</u>		-		,~ 	• •	005, 006,	007, QA ected at 1245	

				Environmer	ntal Che	mical				JOD. INO.	3401.004	+ Client	ACOE-LO	uisville	CC-83	NVAAF
SECO	<b>7</b>				oration					Drilling Met	hod:	Direct-Pus Geoprobe	h 6620DT		Boring No. Building 1039	SB04
			LOG OI	F SOIL BORIN	IG					Sampling M	lethod:	2" diamete MacroCore		ampler		
	Coordin	ates: Elevation		X 492790.775 1028.580	Y 4557 ft msl	719.083	3		-			MacroCore	e liner		Sheet 1 of	1
		Below S			11 11151				-	Water Lev.	NA				Dril Start	ing Finish
	Referen	ice Eleva	ation:						-		NA				12-Aug-13	12-Aug-13
	Referen	ice Desc	cription:						-	Date Reference	NA NA			1	_	
Digital	Sample		Dpth.	Sample	PID	Blows	Depth			Surface Co		Grass	1	·		
Picture #	Type	/ In. Recvrd	Csg.	Depth	(ppm)	per 6 in.	(feet)		Log							
		60/60			0.0	NA	0			Grass						
		00/00			0.0	117.	Ĭ		CL	Dark grayis	h brown si	ltv clav (10Y	R 4/2), sof	t. dense		
							1			3 7				,		
							]									
					0.4		2									
	ISM			1-4 ft												
					0.0		3	L		Brown silty	clay (10YF	R 5/3), very s	stiff, dense,	dry		
							ļ	L								
							4	-	-	Sandstone	cobble, ligl	ht yellowish	brown (2.5	Y 6/3)		
							5	H	-							
		60/60			0.0	NA	3	+								
		00/00			0.3	INA	6		1							
	ISM			4-7 ft	0.0		1		1							
	VOC			7 ft			7									
							8	_								
	ISM			7-10 ft			_	H	-							
							9	-	1							
	ISM			4-10 ft			10		1	End of borir	ng 10 ft bg:	 S				
											0 0					
							11									
								_								
							12	-								
							40	-	-							
							13	-	1							
							14	_	1							
							1									
							15									
								L								
							16	_	-							
								$\vdash$	-							
							17		-							
							18		1							
									1							
							19									
								Ĺ	]						-	
							20	L								
							I	L	-							
							21	$\vdash$	-							
							22									
							22	$\vdash$	1							
							23		]							
	i							1	1							

Logged by:	J. Scott P.G ECC
Drilling Contractor:	Frontz Drilling
WELL SPECIFICATION	S: Well not installed

WELL SPECIFICATIONS: Well not installed
Diam. of casing: 2" Screen Interval:
BOH: 10 ft bgs Riser Interval:

Date: 13-Aug-13 Notes:
Driller: Rickie Skanks

Sandpack:

Bentonite: 0- 10 ft bgs

NA = Not Applicable
See Sample Summary Sheets for sampling information
ISM = Incremental Sampling
Method

										Job. No.	5461.004	4 Client	ACOE-Lo	ouisville	Location	RVAAP
EC				Environme Corp	ntal Che oration	emical				Drilling Met	thod:	Direct-Pu	ish		CC-83 Boring No.	SB05
			LOG O	F SOIL BORIN	NG					Sampling N	/lethod:	Geoprobe 2" diamet	ter-5 ft SS s	ampler	Building 1039	<u> </u>
	Coordin			X 492793.136	Y 4557	722.927	7		_			MacroCo	re liner		G.1661 1 6.	1
		Elevation S Below S		1028.721	ft msl				-	Water Lev.	NA				Start	lling Finish
	Referer	nce Elev	ation:						-	Time	NA				12-Aug-13	12-Aug-13
	Referer	nce Desc	cription:						_	Date Reference	NA NA				_	
Digital	Sample	In. Drvr			PID		Depth			Surface Co	nditions:	Grass				
Picture #	Type	/ In. Recvrd	Csg.	Depth	(ppm)	per 6 in.	(feet)		Log							
		60/60			0.0	NA	C			Grass						
									CL	Dark grayis	sh brown si	ilty clay (10	YR 4/2), so	ft, dense		
							1	ıL	_							
								L	4							
	IOM			4 4 4			2	$^2$	-							
	ISM			1-4 ft				$\Box$	-	Proven ciltu	alay (10VE	2 E/2\ atiff	donoo dny			
							3	}	1	Brown silty	ciay (1011	x 5/5), Suii,	derise, dry			
							4	₁├	1							
							]		]							
							5	5								
		60/60			0.0	NA										
							6		-							
	ISM			4-7 ft				L	4							
	VOC			7 ft			7	<b>-</b>	-							
								$\perp$	-							
	ISM			7-10 ft				1	1							
	IOIVI			7-1011			ç	9	1							
							1 `	丨	1							
3	ISM			4-10 ft			10									
		36/36			0.0	NA										
							11	ıĻ	1							
								L	4							
	Diag			7.40.5			12	2	-							
	Disc VOC			7-13 ft 13 ft			13	$\downarrow$	1	End of bori	na 13 ft ha	S				
	700			1011				Ή		End of Bon	ng rombg	<u> </u>				
							14	<b>↓</b>	1							
							15	5								
								L	4							
							16	$^{\circ}$	_							
								$\perp$	-							
		1					17		†							
							18	3	1							
							1		1							
							19		]							
		1							]							
							20		-							
							ļ	$\vdash$	-							
		1					21	<u>'</u>  -	-							
		1					22									
							~	+	†							
							23	3	1							
							]		]							
							24	4								
		1			1											
Logged	l by: Contract	tor:	J. Scott Frontz	t P.G ECC			-			Date: Driller:	13-Aug-1 Rickie Sk		Notes:		t Applicable nple Summary S	heats for
	SPECIFI			Well not insta	lled		-			DINIEL.	MONIE OK	ai ii\ə			g information	110013 101
Diam. c	of casing	: 2"		Screen Inter						_ Sandpack:	0.155	_		Disc. = E	Discrete	P
BOH:		13 ft bg	js –	Riser Interva	al:					Bentonite:	0- 13 ft bo	gs		ISM = In	cremental Samp	ling

VOC @ 7 ft, sample time - 1415 VOC @ 13 ft

Method

				Environmen	ntal Che	emical				Job. No.	5461.004	4 Client	ACOE-Lo	ouisville	Location CC-83	RVAAP
ECC					oration					Drilling Met	thod:	Direct-Pus Geoprobe			Boring No. Building 1039	SB06
			LOG O	F SOIL BORIN	1G					Sampling N	Лethod:	2" diamete	er-5 ft SS s	ampler		
	Coordin Surface	e Elevatio	ion:	X 492795.19 1028.846	ft msl			_	-			MacroCore	e liner		Sheet 1 of Dril	1 lling
	Casing	Below S	Surface:	1020.010	1,				- -	Water Lev.					Start	Finish
	Referen	nce Eleva	ation:					_	_	Time Date	NA NA				12-Aug-13	12-Aug-13
								_		Reference	NA					
Digital	Sample	In. Drvr	Dpth.	Sample	PID	Blows				Surface Co	nditions:	Grass				
Picture #	Type	/ In. Recvrd	Csg.	Depth	(ppm)	per 6 in.	(feet)		Log							
		60/60			0.0	NA	0	)		Grass						
		'	'		'				CL	Dark grayis	sh brown si	ilty clay (10Y	'R 4/2), sof	t, dense		
		'	'		'		] 1		]							
			'		'		]									
		'	'		'		2	<u> </u>		Color chan	ge to 10YR	R 4/3				
	ISM	'	'	1-4 ft	'		4									
		'	'		'		3	}	1	Grading to	stiff, dry					
		'	'		'			H	-							
		'	'		'		. 4	<b>└</b>	-							
		'	'		'		5	<u>.</u>  -	-	Crading to	· · on · otiff					
$\vdash$		60/60	<del> </del>	<del>                                     </del>	0.0	NA	Ü	+	<del> </del>	Grading to	very sun					
		60/60	'		0.0	INA	6	$\Box$	1							
	ISM	'	'	4-7 ft	'		j	<u>`</u>	†							
	VOC	'	'	7 ft	'		7	,	1							
		'	'		'		1		1							
		'	'		'		8	3	]							
	ISM	'	'	7-10 ft	'				]							
		'	'		'		9	<u>}</u>	]							
		'	'		'		_		_							
	ISM	<b></b>	<u> </u>	4-10 ft	<b></b> '	<u> </u>	10	)	<del>                                     </del>	End of bori	ng 10 ft bg	S				
		'	'		'			$\perp$	-							
		'	'		'		11	$\vdash$	-							
		'	'		'		12	$\downarrow$	1							
		'	'		'		'-	+	1							
		'	'		'		13	3	†							
		'	'		'											
		'	'		'		14	†	]							
		'	'		'		]		]					<u> </u>		
		'	'		'		15	<u> </u>								
		'	'		'			L	1							
		1 '	! 		'		16	<u>ز</u>	-							
			! 					$\vdash$	-							
		'	'		'		17	$\vdash$	-							
		'	'		'		18	$\vdash$	1							
		'	'		'		~	<u>`</u>	1							
		'	'		'		19		†							
		'	'		'		1		1							
		'	'		'		20		1							
		'	'		'				]							
			! 				21	L	_							
			! 				_									
			! 				22	<u></u> -	-							
			! 					$\vdash$	-							
			! 				23	<u>'</u>  -								
			! 				24	<b>.</b> ⊢	-							
			! 				. 24	<u> </u>	1							
Logged	by:		J. Scot	tt P.G ECC			<u>.                                    </u>		<u> </u>	Date:	13-Aug-1	3	Notes:	NA = No	t Applicable	
Drilling	Contract	tor:	Frontz	Drilling			- -			Driller:	Rickie Sk		_		nple Summary Sh	neets for
	SPECIFIC of casing:		S:	Well not instal Screen Inter						Sandpack:					g information cremental Sampl	lina
Diaiii. C	n casing.			_ Screen inter	vai.					_ Sanupack.	·		_	ISIVI = IIIC	Jementai Sampi	ing

Bentonite: 0- 10 ft bgs

Method VOC @ 7 ft collected at 1440

Riser Interval:

10 ft bgs

BOH:

Color   Colo		4				-4-1 01					Job. No.	5461.004	Client	ACOE-Lo	uisville	Location CC-83	RVAAP
Conference   Con	ÉCC						emicai				Drilling Met	hod:				Boring No.	SB07
Marcy Core Investor   Supple   Marcy Core				LOGO	F SOIL BORIN	1G					Sampling M	lethod:			mnler	Building 1039	
Martine December   Martine Dec			nates:		X 492794.6	Y 4557	725.23				Camping iv	iotriod.	MacroCore	liner	про		•
Part						ft msl					Water Lev.	INA					
Sample in Norw		Referer	nce Eleva	ation:							Time	NA					
											Reference	NA				-	
Second   S	Digital	Sample	ln. Drvr	Dpth.							Surface Co	nditions:	Grass				-
SM   SM   SM   SM   SM   SM   SM   SM	#	туре		Csg.	Берит	(ррпі)	6 in.	(leet)		Log							
SM			60/60			0.0	NA	0	Ш		Grass						
ISM									Н	CL	Dark grayis	h brown sil	ty clay (10Y	R 4/2), soft	, dense		
ISM								1	Н								
ISM								2	Н								
Control of the cont		ISM			1-4 ft				Н								
SM								3	П		Brown silty	clay (10YR	2 4/3), stiff, d	ense, dry			
SM																	
SM   VOC								4	Ш								
SM   VOC								_	Н		0 " .						
ISM			60/60			0.0	NΙΛ	5	H		Grading to	very stiff					
SM   VOC			00/60			0.0	NA	6	H								
NOC		ISM			4-7 ft			1 ઁ	H								
ISM		VOC			7 ft			7									
ISM									Ц								
ISM								8	Н								
ISM		ISM			7-10 ft				Н								
Logged by: Drilling WELL SPECIFICATIONS: Well not installed DBm. of casing: 2* Screen interval: BOH: 10 ft bgs Riser Interval: BOH: 10 ft bgs Riser Interval: BOH: 10 ft bgs Riser Interval: Boh Inter								9	Ή								
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed DBm. of casing: 2* Screen Interval: BOH: 10 ft bgs Riser Interval: Sandpack: S		ISM			4-10 ft			10	H		End of borir	ng 10 ft bgs	 S				
Legged by: J. Scott P.G ECC   Prilling Contractor: Frontz Drilling   Frontz Drill																	
13					!			11	Ц								
13					!				Н								
14					!			12	Н								
14								13	Н								
Logged by:																	
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  116  117  18  19  20  21  22  23  24  Date: 13-Aug-13 Priller: Rickie Skanks See Sample Summary Sheets for sampling information See Sample Summary Sheets for sample Sheet Sa								14	$\sqcup$								
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  116  117  18  19  20  21  22  23  24  Date: 13-Aug-13 Priller: Rickie Skanks See Sample Summary Sheets for sampling information Sampling information Sampling information Semple Summary Sheets for sampling information Semple Summary Sheets for sampling information Sandpack: Sandpack: Sandpack: Sendpack: S									Ц								
Logged by: Dilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  17  18  19  20  21  22  23  24  Date: 13-Aug-13 Rickie Skanks See Sample Summary Sheets for sampling information ISM = Not Applicable See Sample Summary Sheets for sampling information ISM = Incremental Sampling Method VOC @ 7 ft collected at 1455								15	Н								
Logged by: Dilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  17  18  19  20  21  22  23  24  Date: 13-Aug-13 Rickie Skanks See Sample Summary Sheets for sampling information ISM = Not Applicable See Sample Summary Sheets for sampling information ISM = Incremental Sampling Method VOC @ 7 ft collected at 1455								16	Н								
Logged by:  Dilling Contractor:  Frontz Drilling  WELL SPECIFICATIONS:  Well not installed Diam. of casing: 2"  Screen Interval:  BOH:  18  19  20  21  22  Date: 13-Aug-13 Notes: NA = Not Applicable See Sample Summary Sheets for sampling information ISM = Incremental Sampling Method VOC @ 7 ft collected at 1455								10	Ή								
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2* Screen Interval: BOH:  19 20 21 22 23 24  Date: 13-Aug-13 Driller: Rickie Skanks See Sample Summary Sheets for sampling information ISM = Incremental Sampling Wethod VOC @ 7 ft collected at 1455								17	П								
Logged by: J. Scott P.G ECC Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2* Screen Interval: BOH: 10 ft bgs Riser Interval: BOH: 10 ft bgs Riser Interval: BOH: 19 20 21 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24								]									
Logged by: Diam. of casing: 2" Screen Interval: BOH: Diam. of casing: 2" Screen Interval: BOH: Diam. of casing: 2" Screen Interval: BOH: Diam. of casing: 2" Screen Interval: Bentonite: Diam. of casing: 2" Screen Interval: Diam. of casing: 2" Scr								18	Ц								
Logged by: Diam. of casing; 2" Screen Interval: BOH: Diam. of casing; 2" Screen Interval: BOH: Diam. of casing; 2" Screen Interval: BOH: Diam. of casing; 2" Screen Interval: Bentonite: Diam. of casing; 2" Screen Interval:									Н								
Logged by: J. Scott P.G ECC Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH: 10 ft bgs Riser Interval: See Sample Summary Sheets for sampling information Sandpack:								19	$\mathbb{H}$								
Logged by: J. Scott P.G ECC Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH: 10 ft bgs Riser Interval: See Sample Summary Sheets for sampling information Sandpack:								20	Н								
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  10 ft bgs Riser Interval:  See Sample Summary Sheets for Sampling information Sandpack: Sandpack: See Sample Summary Sheets for Sampling information Sandpack: See Sample Summary Sheets for Sampling information Sandpack: See Sample Summary Sheets for Sampling information See Sample Summary Sheets for Sandpack: See Sample Summary Sheets for Sampling information See Sample Summary Sheets for Sandpack: See Sample Summary Sheets for Sampling information See Sample Summary Sheets for Sandpack: See								]	П								
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  10 ft bgs Riser Interval:  Date: 13-Aug-13 Rickie Skanks Diam. of casing: 2" Screen Interval: Sandpack: Bentonite: Driller: Rickie Skanks See Sample Summary Sheets for sampling information ISM = Incremental Sampling Method VOC @ 7 ft collected at 1455								21									
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Well not installed Diam. of casing: 2" Screen Interval: BOH:  10 ft bgs Riser Interval:  Date: 13-Aug-13 Rickie Skanks Diam. of casing: 2" Screen Interval: Sandpack: Bentonite: Driller: Rickie Skanks See Sample Summary Sheets for sampling information ISM = Incremental Sampling Method VOC @ 7 ft collected at 1455					1												
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Unique of casing: 2" Screen Interval:  BOH:  10 ft bgs  Riser Interval:  24 Date: 13-Aug-13 Rickie Skanks  See Sample Summary Sheets for sampling information Sandpack: Sandpack: Bentonite: 0-10 ft bgs  Method VOC @ 7 ft collected at 1455								22	Н								
Logged by: Drilling Contractor: Frontz Drilling WELL SPECIFICATIONS: Unique of casing: 2" Screen Interval:  BOH:  10 ft bgs  Riser Interval:  24 Date: 13-Aug-13 Rickie Skanks  See Sample Summary Sheets for sampling information Sandpack: Sandpack: Bentonite: 0-10 ft bgs  Method VOC @ 7 ft collected at 1455								22	Н								
Logged by: J. Scott P.G ECC  Date: 13-Aug-13  Prilling Contractor: Frontz Drilling  WELL SPECIFICATIONS: Well not installed  Diam. of casing: 2"  Screen Interval:  BOH: 10 ft bgs  Riser Interval:  Bentonite: 0-10 ft bgs  Notes: NA = Not Applicable  See Sample Summary Sheets for sampling information  ISM = Incremental Sampling  Method  VOC @ 7 ft collected at 1455									$\mathbb{H}$								
Drilling Contractor: Frontz Drilling  WELL SPECIFICATIONS: Well not installed  Diam. of casing: 2" Screen Interval: Sandpack: ISM = Incremental Sampling  BOH: 10 ft bgs Riser Interval: Bentonite: 0-10 ft bgs  Driller: Rickie Skanks  See Sample Summary Sheets for sampling information  ISM = Incremental Sampling  Method  VOC @ 7 ft collected at 1455								24	$\blacksquare$								
Drilling Contractor: Frontz Drilling  WELL SPECIFICATIONS: Well not installed  Diam. of casing: 2" Screen Interval: Sandpack: ISM = Incremental Sampling  BOH: 10 ft bgs Riser Interval: Bentonite: 0-10 ft bgs Method  VOC @ 7 ft collected at 1455	Logged	by:		J. Scott	t P.G ECC	<u></u>		<u>.                                    </u>	Ш		Date:	13-Aug-13	3	Notes:	NA = Not	Applicable	
Diam. of casing: 2" Screen Interval: Sandpack: ISM = Incremental Sampling BOH: 10 ft bgs Riser Interval: Bentonite: 0- 10 ft bgs Method VOC @ 7 ft collected at 1455						104		-			Driller:			<u>-</u>			neets for
BOH: 10 ft bgs Riser Interval: Bentonite: 0- 10 ft bgs Method VOC @ 7 ft collected at 1455				<b>ა</b> .							Sandpack:			_			ing
Piece of tile pipe in sampler @ 3 ft	вон:	J		js	-				_				JS	-	Method VOC @ 7	ft collected at 1	455

				Environmer	ntal Che	mical				Job. No.	5461.004	Client	ACOE-Lo	uisville	Location CC-83	RVAAP
ECC					oration	iiiicai				Drilling Met	hod:	Direct-Pus Geoprobe			Boring No. Building 1039	SB08
				F SOIL BORIN			_			Sampling N	lethod:	2" diamete	r-5 ft SS sa	ampler		
	Coordin Surface	iates: Elevatio		X492796.754 1028.892	Y 4557 ft msl	725.514	1		-			MacroCore	e liner		Sheet 1 of Dri	<u>1</u> lling
	Casing	Below S	Surface:						<b>-</b>	Water Lev.					Start	Finish
		nce Elev nce Desc							-	Time Date	NA NA				12-Aug-13	12-Aug-13
Digital	Sample	n. Drvn	Doth.	Sample	PID	Blows	Depth		- LUSC	Reference S Surface Co		Grass				
Picture #	Type	/ In. Recvrd	Csg.	Depth	(ppm)		(feet)		Log							
#		60/60			0.0	NA	(			Grass						
		00,00			0.0		]		CL		sh brown si	lty clay (10Y	R 4/2), sof	t, dense		
							1	ı								
								$\perp$	-							
	ISM			1-4 ft	0.2		2	}	1							
	IOW			1-411	0.0		3	3	CL	Brown silty	clay (10YR	R 4/3), stiff, d	lense, dry			
							1					,	, , , , , , , , , , , , , , , , , , ,			
					0.3		۷	1	_							
					0.0		١,	. -	-	One die e te						
		60/60			0.0	NA		5		Grading to	very sun					
		00/00			0.8	14/	6	5								
	ISM			4-7 ft	0.0		]									
	VOC			7 ft			7	_	-							
					0.1			$\perp$	-							
	ISM			7-10 ft	0.0		<b>'</b>	<u>`</u>	1							
							9									
	ISM			4-10 ft	0.7	-	10	)		End of bori	ng 10 ft bgs	3				
							11	$\vdash$	1							
							1									
							12									
								$ar{}$	-							
							13	3								
							14	1								
							15	5	-							
							16	Ļ	-							
							1 '	卜	1							
							17									
								_	_							
							18	3	-							
							19	-	1							
							]									
							20									
							21									
							22	2								
							]									
							23		1							
							24	<b>'</b>  -	1							
Logged		-	-	P.G ECC	#	=	-	-!	•	Date:	13-Aug-10		Notes:		Applicable	
	Contract SPECIFIC		Frontz   S:	Drilling Well not instal	lled		-			Driller:	Rickie Ska	anks	-		ple Summary Sl information	neets for
Diam. c	of casing:	2"		Screen Inter	val:					Sandpack			_	ISM = Inc	remental Samp	ling
вон:		10 ft bg	js 	Riser Interva	al:					Bentonite:	0- 10 ft bg	js 	-	Method Sample ti Clay tile p	me 1510 pipe fragments (	@ 3.5 ft

		HTW		100						CCFj	- 5901
TO COMPANY MANE ECC  1. COMPANY MANE ECC  2. DRILLING SUBCONTINCTOR Front Z  3. PROJECT REVENUE ARMY AMMUNICATION Plant  4. LOCATION CC 93 - 8 /6/4 (0.39)  5. MANE OF STILLIS  4. MANE OF STILLIS  5. PLANE OF STILLIS  5. PLANE OF STILLIS  6. MACROCORE  1. SAMPLE ELEVATION  1. SAMPLE											
				ıt '	4. LOCAT	ION CC	83	- 3/e	9 (039	. 7	
5. NAME OF DRILLER	<del>Joe</del>	Teter Rickie S	her bs	1	6. MANUI	ACTURER'S D	ESIGNA	TION OF DRILL	Geoprob	e 66	20DT
	IL CHILLING	D F I SS SAIVIF	LEK		6. HOLE		<u>)</u> 4	1-58	01		
					9. SURFA						
							 ??		11. DATE COMP	ETED // / ?	
12. OVERBURDEN THIC	XNESS NA	1						AALE MEDICAL		((1)	
13. DEPTH ORILLED IN	TO ROCK NA	A			16. DEPT	H TO WATER	NID EL/			PLETED	
14. TOTAL DEPTH OF H	IOLE / C	\ '			17. OTHE		EL MEA	SUREMENTS (SP	ECIFY)		
18. GEOTECHNICAL SA			UHD	STURBED	19		ER QF	COPE BOXES	1) A		
20. SAMPLES FOR CHE SEE SAMPLE	SUMMA	RY VOC	METAL	8	OTHER	(SPECIFY)	ОТ	HER (SPECIFY)		ECIFY	
	~ e	0.0000150	NONEGONIA	MEN.	- Church	40.000	-		2	·	
es. varvajiun ur ni	oce .			WELL.	UINEN	(SPECIFY)	23. 8	CHAIUE OF IN		>	
	/			RESU	lts				COUNTS	PID	EMARKS h
ĊL (	5:12	y Cley; derk	5~4.56				100.00		85 U 11-11-11-11-11-1		
	brow	on (10412 4/2)	) Soff,							٥	
	5:14	y Chy: brow	n (1082						4	22	(TS)
3	4/	3): still, 6	lense,							6	4
15	4	7	, ,							PEO:	4.6 53)
٩		, / .	٨)								
5 -	Great	lng to 1104R	5/3)							0	
25	U	ay still	-							6	
		•					ĺ	003			
30-										0	
35	ı				99			1(41	)	0	
4										•	
49-					U					0	
45						k				<b>A</b>	
100										O	
- 1,1		PROJECT RVAAP						1	HOLE NO.		Stages make
MRK JUL 55									100	83-	SBOI

			HTW [	RILLING	g LO	G				HOLE	140. 53 - 5802
1. COMPANY NAME	ECC			2. DRILLI		PACTOR F1				SHEE	T 1 / SHEETS
PROJECT Ra		_	Ammunitio	on Plant	4. LOCA	TION CC	<del>8</del> 3	Blog.	(039	7	
NAME OF DRULL	M Joe	Tet	er lickie	Sheaks	6. MANU	FACTURERS D	ESIGN	ITION OF DEALL	Geopro	obe 66	20DT
SIZES AND TYPE	ES OF DRILLING		5 FT SS SAMPI MACROCORE		8. HOLE	LOCATION	· ۶ ʔ	, Du I	< R	02	
			MINOROGOTIE		9. SURF	ACE ELEVATION	N	,	, 50		
					10. DAT	E STARTED	F24		11. DATE CO	MPLETED	<b>-</b> 7
2. OVERBURDEN	THICKNESS 1	VA.				TH GROUNDWA			0/12	: //_	) 0
3. DEPTH DRILLE	D INTO ROCK	NA			16. DEF	TH TO WATER	AND EL	APSED TIME AFT	er drilling (	COMPLETED	
4. TOTAL DEPTH	OF HOLE	<u>)</u>			17. OTH	ER WATER LEV	EL ME	ASUPEMENTS (SF	ECIFY)	·	
18. GEOTECHICA		1	DISTURBED	UNDISTURB	ED 11		BER OF	COPE BOXES	NA		
SEE SAMP	CHEMICAL ANA	YS S	VOC	METALS	OTHE	R (SPECIFY)	01	HER (SPECIFY)		(SPECIFY)	21. TOTAL CORE
SHEET				· —	<u> </u>		L		7		RECOVERY (つる %
22. DISPOSITION O	OF HOLE	-	BACKFILLED BENTONITE	MONITORING WELL	OTHE	R (SPECIFY)	23. 8	EXCHATURE OF IN	SPECTOR S	X	
ELEV. DEPT	т	DESC	FIPTION OF MATERIALS		SCREENING ESULTS	GEOTECH SA OR CORE BO	MPLE IX IIO.	ANALYTICAL SAMPLE NO.	BLOW	1	FEMARKS
. b	- Si	12,	Clay; derk (	ereyish,	0	·			8	PEL	<u> </u>
ا ا		dens		soft,			10			0.0	
1	1 -			104						22	
310	寸"	4/2)	Cky; brown ; stiff, di	, , ,						0.0	
15-		dry		rsc,							
	3	/								0.0	
26-	] [	da	L 104R	5/2						0.0	
6	1 7	11.5	L 10th				10				
25-	=	~ "/	3111-						064	0.0	•
20-	4								Occo	0.0	
	4 .	,	1.11	(117/)			93		1215		
35-	G.	axy	light gray							1.0	•
5-40-	3						100				
	E									0.0	•
45-											
	#										
1 11						1				1	

				HTW I	DRILL	ING	LO	G				HOLE	NO. 83 SG	23
1. COMPA	NY NAME ]	ECC			2.	DRILLING	SUBCONTI	ACTOR F	con	tz		SHEE		$\Box$
3. PROJEC	Rave	nna	Army	/ Ammunitio	on Plai	nt	4. LOCAT	ION CC	<del>£</del> 3	, Bldg	1039	- 1		٦
5. NAME C	OF DRIBLER	Joe	Tet	er 2.54	anks		8. MANUF	ACTURER'S D	ESIGN	ITION OF DRILL	Geoprob	oe 66	20DT	
	WID TYPES O			5 FT SS SAMP MACROCORE	LER		6. HOLE	LOCATION C	C 8	3, Du1	580	3		$\neg$
							B. SURFA	CE ELEVATION	Mi .	A				ヿ
							10. DATE	STARTED 2	(2)	8	11. DATE COM	LETED 17 -	,	$\neg$
12. OVER	BURDEN THIC	XMESS 1	JΑ					H GROUNDWA			A	122		
13. DEPTH	ORILLED IN	O ROCK I	NA				16. DEPT	H TO WATER	AND EL	APSED TIME AFT	ER DRILLING CO	WPLETED		$\neg$
14. TOTAL	DEPTH OF I	OLE	10'				17. OTHE	R WATER LEV NA	EL ME	SUPEMENTS (SP	ECIFY)			一
18. GEOTI	ECHNICAL 8A	MPLES N		DISTURBED	UND	ISTURBED	19		BER O	CORE BOXES	UA			
20. SEE S	SAMP CE	SUMW	ARY	AOC	META	us au	OTHER	(SPECIFY)	01	HER (SPECIFY)	OTHER (S	PECIFY)	21. TOTAL	
SHEE	STRON OF H	OLE		BACKFILLED	MONITORING	3 WELL	OTMER	(SPECIFY)	23 .	SIGNATURE OF IN	SPECTOR	-	43	*
				BENTONITE		_		<u> </u>	1	>lhī	\$			Ì
ELEV.	DEPTH			CRIPTION OF MATERIALS		RES	CREENING BULTS d	GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE NO.	BLOW COUNTS		REMARKS II	
CL	1 =	Sil	Ly C	Cky , dark 9	revish	0.0	<b>S</b>							
	25-	7 6	Sul	1; (109K 1/2 L	2), done	(53)	20.3							
	10.	`			1.10									ŀ
	3	); l	+ y	Cly, bras i denc, Ski	1 (104) []	O. C	>		N.					F
	15-		1/3)	i dense, or		0.0								
														ŀ
	20-					6.0								F
	25-	6	1.	Lo (108R 5	5/2)	0.0								Ī
		42	<sup>4</sup> 7	po (1-11-	<i>'</i> 3/	Ι΄				005,000	ב רסט QA			F
	7 =		1	, bou	110	6.0				1245				E
	85 Y	9.	c din	1 to util	51.17	0.0	•							
	10=					0.0								
	9 =					0.6								Ī
	45-					00						Co 561	le e	-
	0							6						
MPM 5	an 55	in the second	PRI	OJECT RVAAP							HOLE NO.	(87	- 5g ·	
44.14	M 60 00											-07	- 25	)

		HTW I	DRILL	NG	LO	G				HOLE	no. 83-5804
1. COMPANY NAME	ECC		2.			ACTOR F1				SHEE	T 1 ( SHEETS
3. PROJECT Rave	enna Ar	cmy Ammunitio	on Plai	nt 4.	LOCAT	ION CC	F 3	RHU	1039		
5. NAME OF DRILLER	-Joe 1	Teter 2 5		₽.	MANUF	ACTURER'S D	ESIGN	Bldy	Geoprob	e 66	20DT
	SIZES AND TYPES OF DRILLING 5 FT SS SAMPLER AND SAMPLING EQUIPMENT MACROCORE							D401	50.04		
		WAOROCORL		9.	SURFA	CE ELEVATION			3/3 04		
	ļ			10		STARTED		.,,	11. DATE COMP 8/12:	LETED	-6
12. OVERBURDEN THI	XNESS NA			15		GROUNDWA	TER E		¥/12:	(2)	
13. DEPTH ORILLED IN	TO ROCK NA			16	ודיפוס .	TO WATER		APSED TIME AFT	ER DRILLING COM	PLETED	
14. TOTAL DEPTH OF				17	. OTHE	R WATER LEV	EL ME	ASUREMENTS (SP	ECIFY)		
18. GEOTECHNICAL SA	WPLES NA	DISTURBED	UND	STURBED	19		BER OF	CORE BOXES			
20. SAMPLES FOR CH SEE SAMPLE	SUMMA	s <sub>Y</sub> voc	META	B	OTHER	(SPECIFY)	01	HER (SPECIFY)	OTHER (SP	ECIFY)	21. TOTAL CORE
SHEET	New Agency										RECOVERY %
22. DISPOSITION OF H	OLE	BENTONITE	MONITORING	WELL	KEHTO	(SPECIFY)	23. 5	CONATURE OF IN	SPECTOR	<u></u>	
JELEV: DEPTH		DESCRIPTION OF MATERIALS		FIELD SCRE	ENING IS	GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE NO.	BLOW COUNTS	-	REMARKS
CL 2 103 154 205 25 25 25 10 11	5:1: YR	Chy: dark g.  our (with the  ly Chy; brown  5/3); dense,  filt, dry  one colde, light  our (2.54 6/3)	on (10	0.0							
4PK 55	1	PROJECT RVAAP							HOLE NO.	- 52	64

		HTW [	RILL	ING	LO	G				HOLE	NO.
1. COMPANY NAME	ECC		2.	DRILLING		ACTOR F1				SHEET	
3. PROJECT Rave	enna Arr	ny Ammunitio	on Plai	nt	4. LOCAT	ION CC	= -	D //			
5. NAME OF DRILLER					A MANUE	ACTI (DEEDS O	500044	B ld o	1. 103	9	0.000
J. PHILL OF STOLEST	-Joe -10	<u> </u>					CO LINK	inght or unset	eopror	oe 66	20D.L.
7. SZES AND TYPES OF DIRLING 5 FT SS SAMPLER AND SAMPLING EQUIPMENT MACROCORE						DCATION	, .	- 5B05	_		
	-	MACROCORE		-	9. SURFA	CE ELEVATION	/ - N NT	7			
							IA				
	-		10. DATE	STARTED 2 /3	48	·	11. DATE COMP	PLETED			
12. OVERBURDEN THI	CKNESS NA					H GROUNDWA		THE RESERVE OF THE PARTY OF THE			-
13. DEPTH DRILLED IN	TO ROCK NIZ				16. DEPT	H TO WATER	AND EL	APSED TIME AFTE	R DRILLING CO	APLETED.	
						*1* *					
14. TOTAL DEPTH OF (	HOLE 13'					NΑ		ASUREMENTS (SPI	•	,	
18. GEOTECHNICAL 8/	MPLES NA	DISTURBED	UND	STURBED	19	. TOTAL NUM	BER OF	CORE BOXES	VA		
20. SAMPLES FOR CH	ENECAL ANALYSIS	voc	META	LS		(SPECIFY)		HER (SPECIFY)	OTHER (SI	PECIFY)	21. TOTAL C
SHEET		_							7		RECOVE
22. DISPOSITION OF H	OLE	BACKFILLED	MONTOFIN	WELL .	OTHE	(SPECIFY)	23. 5	SIGNATURE OF IN	SPECTION	~/	<u> </u>
		BENTONITE			<u> </u>	• 	نــــــــــــــــــــــــــــــــــــــ	> $($	MO	# A	
ALEV: DEPTH B	0	ESCRIPTION OF MATERIALS C		RES	CREENING BULTS d	GEOTECH S/ OR CORE BO		ANALYTICAL SAMPLE NO.	BLOW COUNTS g		REMARKS h
CL 1	5:4,	Cley, dark gazy own, (10 TR 42) Hb.	,54	O.	`						
- را	600	oun, (10 th 1/2)	dense	0.	J						
12=	_			0.0	>						
	5:1:	ty Cley, brow	٠								
3	(10	ty Cley, brow 4R 5/3), den	3C.	0.6	د						
18		: H, day	,				į.				
15	3	,		0.0							
	=										
20	1			0,0	>						
1 :	1										, ,
25—3	F			6. ల						Scay	sle hin
	1							UOC S@		140	5
30- 910	1			0.0				7'			
	1			0.0							
25- 41	1			0.0							
	1										
40-	1			0.0							
	1										
13	1			6.0				(3°			
13	1							(3'			
		PROJECT RVAAP							NO		
MK 55										SB 5	

		HTW	DRILL	ING	LO	G				HOLE	10. 83 SB	ے،	
COMPANY NAME	ECC		2.			PACTOR F1		tz		SHEET OF /	1 SHEETS		
PROJECT Rave	enna Arr	ny Ammunitio	on Pla	nt	4. LOCAT	TON CC 8	-3	Dida	1039	,		-	
NAME OF DRULER	J <del>oe</del> Ti	eter D 5			8. MANU	ACTURER'S D	ESIGN	NTION OF DRUK	Geoprob	e 66	20DT	-	
SIZES AND TYPES O		5 FT SS SAMP			6. HOLE LECATION								
		MACROCORE			9. SURFA	CE ELEVATION	u N	- 580 A		<del></del>	* ***	in Plant	
					10. DATE	STARTED		T	11. DATE COMP	LETED	-	-	
2. OVERBURDEN THICKNESS NA						12 (13 H GROUNOWA		-	8/12			-	
I. DEPTH DRILLED IN	TO ROCK NIA					$\sim$	A	APSED TIME AFTI	ER DRILLING COM	PLETED		_	
. TOTAL DEPTH OF		- 1				NA		ASUREMENTS (SP					
. GEOTECHNICAL 8/	13/	75) (0'	1909	*********		NA			EUPT				
		DISTURCED		ISTURBED		-			NA				
SEE SAMPLE	SUMMAR	Y VOC	META -	LS	OTHER	(SPECIFY)	01	MER (SPECIFY)	OTHER (SP	ECIFY	21. TOTAL ( RECOVI	ERY	
SHEET  2. DISPOSITION OF HOLE		BACKFILLED MC		G WELL	OTHER	(SPECIFY)	23. SIGNATURE OF IN		SPECTOR	1		*	
		BENTONITE			1		4	>4	180	>			
SLEV. DEPTH	<b>i</b>	ESCRIPTION OF MATERIALS		RES	CREENING ULTS d	GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE NO.	BLOW COUNTS G	F	EMARKS I)		
L (	Silky	Cky; der b g.  un . (104R 4/2)  It  charge to 10	denie,	0.0	ر								
10-3	Color	charge has le	)	0-0	)								
15. 4		y to Stitt,											
	Greding	, 10 0 2-4 31	,	0.0	•								
30				0.0									
25	,			0.0		Coese 7'	2			Sem. 144	ske O		
40				0.0									
45				0.0									
		PROJECT RVAAP							HOLE NO.			_	
K AND 55		THE PART OF THE PA								83	586	1	

	HTW (	RILLIN						HOLE	NO. B)		
COMPANY NAME ECC		2. DRILLI		RACTOR F		tz		SHEE			
PROJECT Ravenna A	rmy Ammunitio	on Plant	4. LOCA	TION CC {	3	3 lda	1309	10	35		
NAME OF DRILLER JOE	Teter 2.5.		6. MANU	FACTURER'S D	ESIGNA	TION OF DIREC	Geoprol	be 66	20DT		
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5 FT SS SAMP MACROCORE	LÉR	B. HOLE	LOCATION	<u>)</u> (	1,50	? ?				
			9. SURF	ACE ELEVATION							
	2	11. DATE COM	PLETED 14	42							
2. OVERBURDEN THICKNESS N.A.	A	***************************************	15. DEP	TH GROUNDWA			1				
3. DEPTH DRILLED INTO ROCK $ m \ N_{ m A}$	A		16. DEF	TH TO WATER	AND EL	APSED TIME AFTE	R DRILLING CO	MPLETED			
A. TOTAL DEPTH OF HOLE	f O		17. OTH	ER WATER LEV N.A	EL MEA	ASUREMENTS (SP	ECIFY)		,		
8. GEOTECHNICAL SAMPLES NA	DISTURBED	UNDISTURE	ED 1	9. TOTAL NUM	BER OF	OF CORE BOXES					
SEE SAMPLE SUMMA	Se voc	METALS	ОТНЕ	R (SPECIFY)	OT	HER (SPECIFY)	OTHER (S	PECIFY)	21. TOTAL CORE		
SHEET 2. DISPOSITION OF HOLE	BACKFLLED	MONITORING WELL	OTHE	OTHER (SPECIFY) 2		23. SIGNATURE OF INSPECTOR		(0)			
	BENTONITE					Dlhi	St	>			
DEPTH B	DESCRIPTION OF MATERIALS		SCREENING TESTILTS	GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE NO.	BLOW COUNTS g		REMARKS b		
16 - (10 18 - 5 F	Clay; clark graces of the clay clay clay clay clay clay clay clay	se, loroun o.c				Usc se		tile Sen 3'	of Clay pipe in plane		
	PROJECT RVAAP			L		i	HOLE NO.				
PK AND 55						-0	15	R 7			

		HTW I	DRILL	NG L	OG			HOLE NO.					
COMPANY NAME I	CC		2.		ONTRACTOR F			SHEET 1 OF / SHEETS					
PROJECT Rave	nna A:	rmy Ammunitio	on Plan	nt 4. U	CATION CC	33. RI	1, 1839						
NAME OF DRILLER	Joe '	Teter R	5	6. M	ANUFACTURER'S D	ESIGNATION OF DRUL	Geoprob	e 6620DT					
SIZES AND TYPES OF AND SAMPLING FOUR	all or services of the service	5 FT SS SAMP MACROCORE		6. H	6. HOLE LECATION OU 1 , 588								
		WACKCOOKE		9. 8	URFACE ELEVATION		200						
				10.	DATE STATTED	1443	11. DATE COMP	UTED					
OVERBURDEN THICH	CNESS NA	1		15.		TER ENCOUNTERED		1455					
3. DEPTH DRULED INTO	D ROCK NA	A		16.	DEPTH TO WATER	AND ELAPSED TIME AF		PLETED					
I. TOTAL DEPTH OF H	OLE	Lat		17.		EL MEASUREMENTS (S	PECIFY)						
B. GEOTECHNICAL SAI		DISTURBED	UND	STURBED	NA 19. TOTAL NUM	BER OF COPE BOXES	41.4						
SAMPLES FOR CHE	VECAL ANALYS	NS. VOC	META	LS 0	THER (SPECIFY)	OTHER (SPECIFY)	OTHER (SI	PECIFY) 21. TOTAL CORE					
SEE SAMPLE SHEET	SUMMA	ARY	-	-	_	_		RECOVERY (UU %					
2. DISPOSITION OF HO	LE	BENTONITE	MONITORING	WELL 0	THER (SPECIFY)	23. SIGNATURE OF	NSPECTOR	San					
				FIELD SCREEP	ING GEOTECH S	MPLE MILLYTICAL	BLOW	000					
ELEV: DEPTH b		DESCRIPTION OF MATERIALS		RESULTS	OR CORE BO	X HO. SAMPLE NO.	COUNTS	REMARKS h					
- / -	3:14 7 ho	Cley, derk grand; (10 4R 4B),	eyish dage	0.0									
L 5-	\ 7	STE		0.2									
10	S; ļl	Cley, brows 342 4/3),de	۸,	0.0									
3								Clay tile pipe					
15	54	day to very		0.3				lng 5 6 3.5					
		1 604	still	0.0									
20	GR	ding to		0.0									
25				0.8									
6 ]													
30-				0.0				Sample tim					
25	ı			0-(				1510					
85													
40-				0.0									
1 3				67									
45-				0.7									
قسلس		PROJECT RVAAP		<u> </u>			Lucieno						
PK JORN 55		PRIMEDI RVAAP					C	C83, SB8					

---