APPENDIX K

Site Inspection Field Forms

			Field Boring Log					
Dient: USAEC Project No.: Site: Ogged by: Drilling Co.: Driller:			Boring ID: Date: Latitude: Longitude: Drilling Method: Drill Rig Model: Soll Sampling Method: Groundwater Sampling II Hole Diameter: Total Depth of Boring: Depth to First Encountered Water:					
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soll Sample	r Sample	Sample IDs and Notes		
300	PID =0	5	Poorly Sorted, damp, light brown,			ATC-1		
1308		10	Silt with Clay, well sorted, damp, dark Grown.					
310		15	medium clay, well sorted, Saturated, tan/Brown					
315	J	20	medium clay with sand Poorly Sorted, Saturated, tan/orange			7		
		25						

-			Field Boring Log		-			
Client: USAEC Project No.: Site: ogged by: Drilling Co.: Driller:		Field Location:	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water:					
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	r Sample	Sample IDs and Notes		
1150	Water an	f = 5	medium additional comments) Send with Silt, Poorly sorted, damp, dense, maratia brown Jarang, no olor			ATC-Z		
200	PIP= 0.0	10_	Sand Propy well sorted, Wet, tan, (mostly water)	ġ				
		15						
		20						
		25						

-		1 1	Field Boring Log	1.	-	
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soll Sample	Groundwate	Sample IDs and Notes
1010	tele on	40 -	Clay with some silt, poorly sorted, damp, dense, brown / no odor			APG-S1A.
1015		5 _	Clay with little sand, party well sorted, wet, brown with some gray, no odor			
1020		100	coarse Sand with little clay, well sorted, tan / black / gray, no ador			
73		15 =				at v
		10 = 10 = 10 = 10 = 10 = 10 = 10 = 10 =				
		- - -				West States

Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwater	Sample IDs and Notes
0835			Silt, well Sorted, down p, brown forange,			APG-53 - 1 - 50 - (0.5-2) 1215
840	becampany	5 _	medium Sand With Some clay well sorted, damp muist, gruy with Some brown, no odor.			
845		10	medium Sand, with existence clay will strictly, damp, gray with Some brown, no dor.			
su su		15				
		26 				
		25 _				

30



			Field Boring Log		
ogged Orilling	Aberdeen Proving Ground by:	ocation:	Boring ID: Date: Latitude: Longitude: Drilling Method: Drill Rig Model: LEOPLE Soil Sampling Method: 6285 Groundwater Sampling Method: Depth to First Encountered Water:	13 (lethod Refe	erence Daturn:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Sample IDs and Notes
1045	3-5 MAND AVIER	1 — 2 — 3 — 5	singery SILT, MOIST, MOD HOUSE BROWN 3-5 SAME AS ABOVE, WET @ 3.5	X	0-0 PPDA
	* = 1 *	10	5-10 NO RECEVERY		0.0 s Pin
	4 Reward		10-11-10 51LT SAND N/ F-CRIVEL, WET BROWN 11-10-12-4 SANDY SILT N/ F-CRIVEL, MOIST 11-4-14 SILM SKND, TIME F-CRIVE, MOIST	1	6.0's PPM
	2' Rec.	20	15-17 SAA		0-0
	3' REC	7	20-23 SANI) W F-C GROVEL, MOIST, TAN		0 - 0



	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	1111	Field Boring Log		la T	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes
	25-30 3' Rec.		25-25.8 SAM 25-8-26.4 SILTY CLMY, WOIST BROWN 26-8-26.4 SILTY CLMY, WOIST BROWN 26.4-28 SAND, W/ F-GRAVER, WET, TAN	+		6.0
	30-33 3' REL	30	30-33 SAND, PURRLY SURTED, WET, TAN			6, 0
હાર્		35	Drw: 27.77 Drw: 35 (De)	Salar		
Saure.	m www.eye	45	INSUFFCIENT 1120 TO COLLECT WATER GUALITY REMAINS			
		=		100	100	22 / (21-0.49
	774-975-AI-1	50				

lland	44.4		Field Boring Log		
Project Site: ogged Prilling Priller:	Aberdeen Proving Ground	Location:	Boring ID: Date: \$ III		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	HAND MICER TO 51	5	0-2' conjey SILT, Terre F-GANGE, MOIST BROWN 3-5 SAA	×	APE-BAF-AI-Z-SOCE O-O PPM
	5 REC	10	5-8 SILTY CLAY, MOIST, BROWN 8-10 SILTY CLAY IN F-SAND, TRACE F-GILLE MOINT, BROWN J F-SAND, TRACE F-GILLE	_	0-0 ppm
	4' REL		10-12.5 SAA 12.5-14 SILTY SAND, MIST, POLIZY SORTED. CRANCE BROWN		o ppm
	2.6' Rec	20	5-17-6 SAA		o bbw
3	E REC	7	6-23.8 SILTY F-SAND, MOILT, WELL SERIES, ORANGE BROWN		Oppm

			Field Boring Log	_	le I	State of the last
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes
	28' Recovery	25 _	15-17.8 SAND TILLE F-GRAVEL, WET WAL SORTED, ORTHUGE BROWN			o ppm
	3 202.	30	30-33 GILTY SAND, WI FE CRAVEL, Was was sozza), GRANGE BROWN E.O.B @ 35			Oppm
	and the same	40	the simple SILT mass a consequences second 3-5 184			0.0 8 bbw
		45	APG-BAF-A1-2-GN (030221) @ 1415 DTW: 27:11 DTB: 35 TOC 6"STILK	-ví	X	
		50				
	NG0= 3V6	Wi =				

ARCADIS

Design & Consultancy for natural and built assets

ient: I			1-50 - (0-2) - 03 0221 Field Boring Log				
oject N	JSAEC d02118216.3005.8AC00 Aberdeen Proving Ground	Field Location:					
te:	bord 118216.3005.8AC00	iold Location;	Boring ID:	Date:			
ogged b	Aberdeen Proving Ground y:		Latitude:	ongitude:	Gr	ound	Surface Elevation:
illing C	y		Drilling Method:	rill Rig Model:	Gi	ourid	Surface Elevation.
iller:	0.;		Soil Sampling Method:	roundwater Sampling	Mothe	d.	
mor.			Hole Diameter:	otal Depth of Boring:			5.
			Depth to First Encountered Water:	otal Depth of Boring:	Re	terend	ce Datum:
ime	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; mind angularity; sorting; moisture content; consis additional comments)	r components and	oil Sample	Groundwate r Sample	Sample IDs and Notes
	14 MAND AUGER				Ñ	5	
		_	U-2 carrycy SILT, MOIST	, BRONN	X		@1500
- 1		_				1 1	
- 1		-				1 1	
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Page _ of



APG-BAF-D-1-50-(6-2)

			Field Boring Log			
	A CONTRACTOR OF THE CONTRACTOR		Field Borning Log			
oject e:	USAEC Nd02118216.3005.8AC00 Aberdeen Proving Ground by: &0	La	titude: Longitude illing Method: D?7 Drill Rig Me	odel: 600	7822	Surface Elevation: -i>7 Corb
ling	Co.: 65 (Sc	il Sampling Method: المعنى Groundwat	er Sampling Me	Deferen	ce Datum:
ller:	00.: 651	Ho	ole Diameter: 2/14 Total Depti	n of Boring:	Reference	e Datum.
ime	Dop M Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/demadditional comments)	nents and sity; color;	Soil Sample Groundwate r Sample	Sample IDs and Notes
	0-5 HAND NUGER		BROWN SAND, MUIST, MESSE,		X	0-0 ppm
	4 per	10	1-9' SAA			O PPM
	3' REC	15	-13 SILEY SAHI) W CLM, MOIST,	MEN		O PPM
	1.81 200	-15	-16.8' SILTY SAND, MUST,	Neose		O Ppm
	3'		-23 SAA WET @ 25			O Sbr

			Field Boring Log	To	To .	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	
	3'	=	DS-28 SAA N/F-GRANEL, LUNGE, WET DRANGE BRUND. E.O.B			O Pen
		30	DTW: 23.35 DTB: 29.95 TOC 4" STICK UP			ADG-BAF- >- 1-6N @
	Jacobski de la serie de la ser		INS VEFICENT HO FOR WATER QUALITY ECONDINGS		X	
		45				
		50	M.T. 3		- 7	-7
		55				

45

196-BAF-F-1

			Field Boring Log				
Client: USAEC Project No02118216.3005.8AC00 Site: Aberdeen Proving Ground Logged by: Cô Drilling Co.: CS \ Driller: \bod m\			Boring ID: Date: Latitude: Longitude: Drill Rig Model: Soil Sampling Method: boths Groundwater Sampling Method: Drill Depth of Boring: Depth to First Encountered Water:	ethod	Ground Surface Elevation: 7 12)7 ethod: 6247 Reference Datum:		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample		
	0-5 AMNIS AVGER	5	3-5 SILTY CLAY, MOIST, MED DENSE, BROWN			AP6-BAF-E-1-50-CO-2 Q 1830	
	5' REC	10	5-10 SILTY CLAY, MOIST, MED DENSE, BROWN			O. ppm	
	4.5 REL		12-7 - 14.5 SANDY CLAY WI F-GRAVEL, MOIST, MEI DEUSE, ORANGE BROWN			g som	
	1.3' Rec	20	15-16.3 SAA			OppM	
1	LE NEC	25	NET @ 23, MED. DENSE, PRANCE, ARONN				

			Field Boring Log			
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes
	O' REZ	30	25-30 NO RECOVERY - ACAVING SANDS DRIVING POINT TO 30 RGS & SET TEMP WELL			
		35	E.O.B		×	NOG- BAF-E- 1-6W @
		40	DTW: 23.70 DTB: 30 TOC 1.6" STICK UP			
		45	-PERI PUMP UNMBLE TO LIFT WATER			
		50				
	0			•••••		



AP6-BLD6-1059-1

			Field Boring Log		
roject N	M2118216,3005,8AC00 Aberdeen Proving Groun by:	Field Location:	Boring ID: Date: Latitude: Longitude: Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Hole Diameter: Total Depth of Boring: Depth to First Encountered Water:	Method:	Surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color;	Soil Sample Groundwate	Sample IDs and Notes
	O.5 HAND AVEER		O-J CLYTEN SILT, MOIST, MEND DENSE, BROWN	×	APG-TSLAG-1055-1- 50-(0-2) @ 1200 Oppm
	5' REC	J., -	T-10 SANDY SILT WI CAY, MOIST WES NEWSE, ORANGE BROWN		o show
	5' pec	15_	6RAVEL DENSE, MOST, ORANGE BROWN		Oben
	3.7' pec		F- GRAVEL, MGY DEUSE, MOIST URANGE BROWN		O ppm
	3.9' REC	25	20-23 9 F-SAND TIZLE F-GAN WELL SURTED, MOIST, MEID DENSE, GRANGE BROWN	EL	o som

			Field Boring Log			
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes
	51 REC	30	MOIST, NEWSE, ORANGE BROWN 188 - 30 SILTY SAND WIF-GRAVEL WET, NEWSE, GRANGE BROWN			g sen
	4 REC	35	30-34 F-SAND, WELL SERTED MED DENSE, NET, ORMUCE BROWN		X	O ppm
		40	E-0. B @ 34'			
		45	DTW: 30.54' DTB: 34.02 STICK IP 2'			7
	12	50	APG-BLDG-1059-1-GW-030321			ν
-	View 15m	=	1 2 41 ,			12 1/2
	1.8	55	I ii			



APG-BLDG-1065-1

			Field Boring Log			
roject h			Drilling Method: DPT Drill Rig Model: 772 Soil Sampling Method: CENS Groundwater Sampling Method: DENS	thod	DT I:	Surface Elevation: ce Datum:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes
	0-5 HANIS AVOER		MOICT, MED DENSE, BROWN	X		AP6-BUNG-1065- SO-(0-2)@ 13, U-PPM
	5 766	10_	5-10 SILTY CLAY TRACE FLERAVEL MOIST, NEWSE, JORANGE BRUNN			O PPM
	3.8' REC.	15	11.4-13.8 clygy SAND W/ F-C GRNEL, MOIST, MED NEWSE, UZNUE BROWN			o ppm
	3.5' REC	20	15-18.5 SAA			o bbu
	3' REC	25	20-21.2 SAA 21.2-22 SWINY CLMY WI FIC GENTE 22-23 CLMYGY SAND WI FIL GRANT	L		

MOIST, MENTAGISE, ORMIGE BROWN

				Te	In.	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes
	4' KCZ	=	25-29 SAA WET @ 28'			o ppm
	D' REC	30	30-35 NO RECOVERY - HEAVING SANDS DEIVING POINT TO INSTILL TEMP WELL			. j
			60.B. 35'		×	1400 1400
		45	DTB: 35 0' STICK UP			
		50				
		143				

APG-MFRI-2

			Field Boring Log		
te: A ogged by rilling Co	22118216.3005.8AC00 berdeen Proving Ground	Field Location:	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Hole Diameter: Drill Rig Model: Total Depth of Boring: Droundwater Sampling Method: Total Depth of Boring:	ethod:	d Surface Elevation:
riller: Time	Drill Notes	Depth (feet bgs)	Soli/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	0-5 HAND AVEER	5_	MEN DENSE, MOILT - WET BROWN		Oppm
	4' REC	10_	5-7 SAA 7-7.7 chygy SAND WET, ORNOCE BIEGHT 7.7-9 F-C SAND W/ CLM, MET, GIRMLE	×	APG-MFRI-2-50 (8-10)@ 1400 O PPM
	4' REC	15_	10-12.4 SAA 12.4-14 CLM WI F-GANGE MOIST, NEWSE, ORANGE BREWN		o john
	2' /2GZ	20_	SORTED, MOIST, OTABLE BROWN		O ppn
	3' REC	25	20-23 SAA		

			Field Boring Log			
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes
	2' pcc	30_	NEW SORTED, MOIST, MED NEWSE, CRANGE BROWN			o ppm
	3' REC	35	80-38 SAA WET			o ppm
	O' REC	40_	35-36 PEINT DRIVEN DOWN TO -36 SET TEMP WELL		×	APG-MFRI-2-GN
		45	E.O.B. @ 36'			
	3.5	50	DTW: 34.70 DTB: 37.00 1 STICK UP			
		55				×



APG-LONDING-PAD-1

	Field	Boring Log	
ient: USAEC oject Nd02118216.3005.8AC00 let: Aberdeen Proving Ground ogged by: £\$\tau_{\text{olimited}} \text{olimited} illing Co.: £\$\tau_{\text{olimited}} \text{olimited} illing Co.: \$\text{olimited} \text{olimited}	Decation: Boring ID:	Drill Rig Model: 77281)7 Groundwater Sampling Method: Total Depth of Boring: Reference I	face Elevation; Datum:
Time Drill Notes	(principal components a angularity; sorting; moisting)	Rock Description and angularity; minor components and ture content; consistency/density; color; ditional comments)	Sample IDs and Notes
0-5' HANN	MOIST, LOVE	TRACE F-GRNEL A	176-LOAINNG_PAI) -
5' REC	-5-6 6nzy S	AND, TIME FERVER 1) ENSE, GRAY SAND, TIME - FERVE MED DENSE BROWN	O PPM
4' REZ	11-14 CLAY		6 ppm
5' RCZ	15 6NM - 15-20 SAA		O ppm
5' Rec	20 20- 25 SAI	1	V ppm



			Field Boring Log			
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Sample	Sample IDs and Notes
	51 1266	30	15-15-10 SAA 15-10-30 LLMEY F-SAND, WELL SORTED, WET, NOUSE, GRAY			o ppn
	5' 262		30-34 SAND, WELL SORTED, WET, LARGE, GRM 33-34 CLAM, NEWSE, MUST, CRM			MIL- WASIEG-PAIS
		40_	33-34 CLIM, NEWSE, MUST, CRM 6.0.18 @ 34'			_
	-	45_	DTB: 35 1' OF STICK UP			
		50_				*

APG-Loading-PAO-1-GW-030421
200950

TURIS: TEMP 2H ORP (M) 100 OR 16-45 5-99 F1 2-240 4.97



APG-HANGAR-1060-1

			Field Boring Log		- 01
roject N ite: ogged t rilling C	USAEC 02118216.3005.8AC00 Aberdeen Proving Groun by: 0:: C\$\ 1\u00e4\u00fc\u00e4	Field Location:	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water:	thod:	Surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate r Sample	Sample IDs and Notes
	0-5' HAND AVIER	5_	MEN NEWSE, DRY, BROWN	X	AP6-HWEAR-1060- (0-2) @ 1640
	4.9' REC	10_	MOIST, MEN NEWSE, DEMICE BROWN		O PPM
	3-9' REC	15	10-13.9 SAA		o som
	3 Recc	20	PEBBLES; MOIST, MED DEUSE, OPERAGE BROWN		O PPM
	3' REC	25	- 20-23 F-C SAUIS W/ SOME PEBALCS, MOIST, LOUSE, OIZALIGE BROWN		D ppm

			Field Boring Log	_		
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	
	26' REC	=	25-26 SAA 26-26.2 CLAY LAMER 26-26.2 CLAY LAMER 26.2-27.6 CLAYEY F-C SAND, POORLY SOLTED, MOIST, ORANGE BROWN 30-33 9 F-C SAND, WELL SOLTED WET, ORANGE BROWN			Abw.
	39' REC	35	30-339 F-C SAND, WELL SORTE) WET, ORILIGE BROWN		×	APG-THANGAR-10
		40	E. U. B @ 35'			@ 1130
			DTU: 28:50 DTB: 35 NO STICK UP			
		50				2000
	9					

TURB TEMP PH ORP COND NO OR 1462 424 147 .384 1.37



APG-MFRI-I

			Field Boring Log		
roject No	02118216,3005.8AC00 Aberdeen Proving Ground y: &&	VI III III	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Drill Rig Model: Total Depth of Boring: Depth to First Encountered Water:	LF DT Method:	Surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soll Sample Groundwate	Sample IDs and Notes
	U-5 HAND AVEER	5	D-5 chings SILT SIME F-C GRIVER INRY , ISROWN		O PPM
4	5' 264	10	5-10 SAA MOIST @ 81	×	OPPM APG-MFRI-1-50-() @ 1215
	5' 1262	15_	- 10-12.8 FIC SAND WET, LOSE, ORNUE BROWN MOIST, DEUSE CRUWE F	seus	O ppm
	28 PE	20	15-17.8 SAWING CLAY, MOIST		d bbm
	4' REC	25	MOIST, OPERNOE BROWN		Oppre

			Field Boring Log			
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes
	31 pez	30	25-26.5 SAA 26.5-26.9 CLMY LAYER 76.9-28 F-C SANI SOME GRAVEL MOIST, DENSE, ORANGE BROWN			o ppm
	3' RCC	35_	30-33 ≤AA			o ppm
	O'REC	40	- NO RECOVERY - POINT DRIVENS TO 39 TEMP NELL SET	,	×	1300 1300
	3:	45	6.0.B @ 35'			
		50	DTN: 33.60 DTB: 39.70 1 STICK UP			÷
		Ξ				
_		55				

TURB TEMP PH ORP CONS DO
OR 15.90 5.21 42 0.088 0.0

AP6-ABR7-1

			Field Boring Log				7
ite: Al	2118216.3005.8AC00 berdeen Proving Ground	eld Location:	Boring ID: Date: 3 5 2 1 Latitude: Longitude: Drilling Method: りずて Drill Rig Model: アフン Soll Sampling Method: レルカ Groundwater Sampling Method Diameter: 」いた Total Depth of Boring: Depth to First Encountered Water:	ethod	7	Surface Elevation: ce Datum:	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes	
	4' REE USE) RIG UNAM	Ji 6	1-4 SILTY SANI) SOME F-C GRAVEL MOIST, NEWSE, ORANGE BROWN	12		NY6-ABR7-1-50-	6
	5' REC	10	5-10 SANDY SILT, SOME F-C GRAVEL, MOIST, NEWSE, BROWN			O PPM	
	5 1260	15_	10-11.5 SAA 11.5-12.2 CLM DENSE CRY 12.2-15 F-SAND TRUE F-GENEL WELL SORTED; MOIST, DENSE, TAN			o ppu t	
	4' 1262	_	15-16-6 SAA 16-6-16-8 CLM LEUSE 16-8-18-8 F-SAND 17-8-18-2 CLM LEUSE 18-2-19 F-SAND WET			Oppu.	
	4' Rec	25	18-2-19 FSAND NET 20-23 SAA 23-24 SANDY CLAY DENSE MOIST TAN BROWN		×	e ppm	

E.O. B 0 25

AP6-AB127-4-6W @ 1345

DTW: 12.05 DTB: 25 NO STICK UP

TURB TEAP 214 ORP CONI NO OR 1226 357 228 0.217 2.32



APG-- ABR6-1

			Field Boring Log		The second
ite: A	SAEC £2118216,3005,8AC00 Aberdeen Proving Groun Y:		Boring ID: Latitude: Drilling Method: Drill Rig Model: Sol Sampling Method: Longitude: Drill Rig Model: Groundwater Sampling Method: Longitude: Drill Rig Model: Total Depth of Boring: Depth to First Encountered Water:	をりて ethod:	Surface Elevation: ce Datum:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	0-5 HAND NEER	5_	Moist, mais noise, circle Brown		o ppm
	y' rec	10	- 5-9 SAA		t o ppm
	1.41 REC	15_	10-11.4 SAA		о ррм
	OI REC		NO RECOVERY		IVA
	OI REC	25	No Berener		NA

			Field Boring Log			
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes
	3.5° REL	30	25-26 SANDY CLAY, WET DENSE CRANCE BROWN 26-28-5 F-SAND WELL SORTED MGD NEWSE, WET, ORANGE BROWN E.O.B @ 301			APC-ABRE-1-6 @ 0130
		35	6.0.13 @ 301			
		40	DTW: 20.40 DTB: 30- NO STICK UP			
		45				
		50				

OR 9.47 3.48 202 0.170 5.46

APG-BONEMAIN-3

te:	Aberdeen Proving Ground	ocation:	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water:	thod:	Surface Elevation:
me	Drill Notes	Depth (feet bgs)	Soli/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	U-5' HANN AVIER	5	DENSE, BROWN	>	@ 1210
	2' REC	10	B-4 F-L SANIS SOME F-L LEBBLES, PORLY SORTES, LASE OMANGE BROWN		Oppm
	3.4 REC		10-13.4 Chypy F-SAND TRACE F-COBBLES POORLY SORTED, MOIST		o ppm
	3' 1262		15-18 SAA		Оррм
	O' REC	20	NO RECOVERY - ROBS STACK boing to DRIVE POINT TO	×	AP6-BONEYM20-3

25' E.O.B @ 25'

DTW:

PTB:

TURB TEMP DH ORP COUNT 1)0 OR 15.88 5.69 294 0.064 1.70

APG-BONYARD-3-GW-030AZI



APG-BUNTYARD- 4

ient-	USAEC IF		Field Boring Log		
roject I	No.2118216,3005.8AC00 Aberdeen Proving Ground by:	field Location:	Boring ID: Latitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water: Date: Longitude: Drill Rig Model: Groundwater Sampling Method: Total Depth of Boring:		ace Elevation: atum:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate r Sample	Sample IDs and Notes
	AUGERZ HAWN	5	4-5 GANDY SILT SIME F-C EINNEL MUNT, WED DENSE DRAWGE BEOWN	x A	P6-2014 EYARN - 4- 0 1330
	5 REC	10	C-10' SAA		Oppm
	3' REC	15	MOIST, DENSE, OPENSE BROWN		Osbu
	3' 1266		16-16 F-C SAND, WOLFT, GOLDEC BROWN 16-16.6 SILTY SAND, RED BROWN 16-6-17 CLAYEY SAND TAN 16-1-18 FOR SAND, WELL SEXTED, TAN		o zem
	3.10' 252	25	20-23.10 SAA WET @ 23		Oppm

and the same of the

Fime Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; minor components and additional comments)	il Sample	Groundwate	Sample IDs and Notes
31 202	30_	25-28 F-SAND WELL SORTES			
,	35	E.O. B @ 28		X	APG-BONEYMEN-
V	40				-
	45	Ni William			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50	A STA			.434

DTW: 25.22 DTB: 30 STICK UP: 2.3'

APG-Boneyard-4, GU-030821

OR 1527 6.17 162 0-101 357

APG-BONEYARI)-2

te: /	ged by:		Boring ID: Date: Latitude: Longitude: Ground Surface Elevation: Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Method: Total Depth of Boring: Reference Datum:		7
ime	Drill Notes	Depth (feet bgs)	Soli/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	MIGZ IVND	-	13-4 CLYMAY SILT, MOIST MOD DEUSE BIRCOND	X	APG-BENEYARD-2 @ 1110 Opport
	9' KEL		4.5 F-C SAND, NEW SORTED, MUIT, GAMES 5-9 F-C SAND POURLY SORTED, DRY, MGS DELICE, GAMISH TAN		o ppm
	4' 1202	10	10-14 F-C SAND, THERE F- CORRECT CARECT SOM @ 12.2 - 12.4, MOIST	5	6 ppm
	3.4 RGZ		MET @ 17', CRM / TAN		Oppm
	3' 202		20-23 SAA 21-6-21-10 Chy LENSE		Oppm
_		25	The state of the s	X	V

C.O.B @ 241

APG-BONGYARD - 2-6W

@ 140

DTB: 25.00 brick up: 1.6'

OK 12.92 625 0.112 130 6.11

ADG-BONGY 11213-5

oject N	Aberdeen Proving Groun Output Dy: Co	Field Location:	Drilling Method: Drill Rig Model:) 7 Soil Sampling Method: Groundwater Sampling Method: Groundwater Sampling Method:	LE thod:	nd Surface Elevation: 3377 rence Datum:
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Sample IDs and Notes
	0-5 Hand	5	DENSE, BROWN SILT, MOIST, MGS HENSE, BROWN LOUSE, POORLY SORTED	×	ATE-BONEYMEN-S
	Y' REC	10	4-5 F-SAND LOUSE POORLY SORTED MOIST, CRANGE BROWN 5-9' F-C SAND, POORLY SORTED, DRY, MGD DEWSE, LIGHT BROWN		Oppor
	31 REC		10-13' F-SAND W/ TURE F-C COBBLES MES NEWSE, MOIST TAN PROPRY SOLTED		g 36m
	3.5 1 200	20	15-18.5 SAA NET @ 18 ft		J 797
	3.5'	25	20-13.5 SAA		OPPM X APG-BONEYARIN

E.O.B @ 25'

@ 1635

DTW: 15-10

DTB: 25-20 NO STICK UP

TURB OR

APG-Boneyard-5-GW-070821

P1035

TYPES TOMES PH ORP (UND) DO OR 12-43 0-42 114 0-138 0

ADG-ABR 3-1 Field Boring Log Date: ield Location: Boring ID: Ground Surface Elevation: Longitude: Project Na2118216.3005.8AC00 Drill Rig Model: Site: Aberdeen Proving Ground **Drilling Method:** Groundwater Sampling Method: Logged by: ¿O
Drilling Co.: Soil Sampling Method: Total Depth of Boring: Reference Datum: Depth to First Encountered Water. Driller. Soil Sample Groundwate r Sample Soll/Rock Description Depth (feet bgs) Sample IDs and Notes (principal components and angularity; minor components and Time **Drill Notes** angularity; sorting; moisture content; consistency/density; color; additional comments) APG-ABR3-1-50-10-2 0-2 LANGY SILT, MOIST LOSE 0-5 HAND @ 0830 BROWN MILER 2.5 GILTY CAM, WET, BREND O ppm 5-6. T ELMEY SAND, WET, BOOKE Ra O PPM BREWN 65.10 SAA 5'nEC 10-14 SAA

14-15 F- SAND, MOIST, DENSE,

16-18.2 SANDY CLAY, NEWSE, MEIST

21.7 - 23 CLM, DENJE, MUST, BROWN

18-12-19 SAMILY CLAY, NEWSC, WET OFFREE BROWN

E.O.B @ 25'

DUNDE BRUND

20-21.) SAA

15-16 SAA

0930

Obbu

AP6-ABR3-1-6W @

0 7PM

DIN: 15.10

REC

3 1 REC

MB: 26.70 STICK UP 28

OR 12.86 *3.00 0.214 158 0.13

PT METER WOULD NOT CALIBRATE

1P6- OLD-F74-2

		Field Boring Log	The total and the		
Client: USAEC	Field Location:	Boring ID: Date: 3/11/2/	Ground Surface Elevation:		
Site: Aberdeen Proving Ground Drilling Method: Drill Rig Model:					
ogged by: Orilling Co.: Oriller:			Reference Datum:		
Time Drill Note	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Sample IDs and Notes		
a- ¿ han		2-5 SILTY CLAY, MOIST, MET NEUSE, B	1325 Round Oppm		
5' REZ	4	5-10 SAA TORRE FIL GRAVEL	Вррм		
3! 12 60	10_	10-11 SAA 11-13 SANDY CLAY, WELL SORTES DEUSE, MUIST BROWN	d debri		
3' PGL	20	- 15-18 F-SANI), TRACE F-C BRAVEL, NEW SURTED, MOIST - NEWSE, ORAUGE BROWN	A		
31 20	er	- 20-23 F-SAND, NEW SORTES - MOIGT, DEUSE, ORNOG BELOWN	mad o		

11	Man at the second		Field Boring Log '	1	1.0	A STATE OF THE STA	- Av
ime	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes	1960 1971
	31202	30	25-28 SAA WET 0 28'	100	100	Oppm	
p#	M Rec	35	30-31 F-C SIMIS, SINE F-C GRAVEL, POURLY SORTED), WET, MODSE; BROWN,		¥	APG-660-F7A-2	-61
	Mary -	40	608 0 84	N (S)	91	1410	
	1990	45	Sign the Last Kines 31-11			1.531	
	THE CONTRACTOR OF THE PARTY OF	50	The state of the s		AL CONTRACTOR	1. 1	
	Contract Post	43	- Sign Town is to an			11 2.Cc	A

DTW: 28.97 D7B: 34.80 1-8' STICK UP

OR 19-96 5-22 204 0.064 F. 80



NOG-OLD-FIA-

1.1.	1997		Field Boring Log		2 2 3
Project N	@2118216.3005.8AC00 Aberdeen Proving Groun	Field Location:	Boring ID: Date: Latitude: Longitude: Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Method: Total Depth of Boring: Depth to First Encountered Water:	Ground Surface Elevation: ethod: Reference Datum:	
Time	Drill Notes	Depth (feet bgs)	Soli/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soull Sample IDs and Notes Croundwate Cround	
-1-h	0-5 HMM) AVIGR	5	MOTST, NOUSE, BROWN	X R6-OLD-F7A-1-SO 0 1230 0 PPM	-60
	5 ' REE!	10_	5-10 SAA	o ppm	
	5' REC	15_	10-12.4 SAA 12.4-15 CLAYEY SAND, TRACE F- C GRAVEL, WELL SOUTED, MOST, MES DENSE, BROWN	oppu!	
	3' 252	100	MOIST, MED NEWSE, DRINGE BROWN	mag o	
1	31 per	25	20-23 SAA	t wald o	

11.1

10000			** 一种不是一种	de	RE	Commence of the second	
			Field Boring Log				Sec.
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes	
	31 REC	30	25-28 SAA SOME-F-C GOVEL @ 28'			o ppn	
	3'200	35	30-33 F-SMID, SOME F-C LINEL WELL SOKIES, NET, BROWN		×	0 gpm APG- OTA-FTM-1-	6 st (a
	18'9' C	40	E.O.8 @ 34'			1340	
		45_	the Control of the second			252 5	
	A Property of the Parket	50_	Carried meanwhile modern		Section of	180 16:00	
	1.100	55	49 11 1			1 200	

DTW 27.72

1578: 35 0.8' STICK UP

OR 14.92 5:30 186 0.094 2.71



APG-BONGYARD - G

roject No		ation:	Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Me	Ground thod:	Surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	0-5 Hand Avier	5	0-4 SILT, MOIST, MES DELSE BROWN 4-5 WHEY SAND	X	176-130154 ARU-6-
	4 por	10	MOIST, MEN DENSE, BROWN		O ppm
	4' REC	15	11-11 SAA 11-11.5 CLAY, SOME F-C COSSIES 11-5-14 F-SAND, THEE F-COSSIE WELL SORTE, MOIST, TAN		O PPM
	3.10' pec	20	15-18-10 SAA WET	×	AP6-800 EYARD-6
		25	E.O.B @ 20'		1120

DTW: 14-65

DTB: 19-80 - F STICK UP

TURD TOUR PH ORP COUND DO
OR 16-61 5-46 142 0.061 1.52



APG-BONEYARD - >

Project N	Aberdeen Proving Ground by: CO	eld Location:	Drilling Method:)177 Drill Rig Model: 77.2 Soil Sampling Method: Groundwater Sampling Meth	Pround Surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Soli/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Sample IDs and Notes
	0-5 HAVIS NIER	5	0-9 GILT, MOIST, LOOSE, BROWN X	@ 0930 0.2 ppm 0 2
	91 250	10	5-9 SAA	d bbn
A.	41 REC	19	10-10-10 SAA 10-16-14 F-C SANIS, SOME F-C COBBLES, POORY SORTES, MOIST, MES NEWSE, ORNIGE BROWN	4
	4' REC	20	WET, NEW DENSE, OPENCE BROLED	o ppm
	ű.	25	C. O. B @ 20'	X ADG-BONGYARIS - 7-

DTN: 15-91 DT131 20 1' STICK UP

TURB TEMP PH ORP COM DU
OR 14-64 5-63 135 0.053 6.69



MG-BINGIANI-1

Client: USAEC Field Loci Project Nd02118216,3005.8AC00 Site: Aberdeen Proving Ground Logged by: Drilling Co.:	ation:	Boring ID: Latitude: Drilling Method: Soil Sampling Method: Hole Diameter: Doph to First Encountered Water:	, ,	ace Elevation:
Time Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
8-5 HALUS NUCR	5	0-5 SILT, MOST, LOUSE, BRUILS		6-Волеумг15-1-80. 630 Орра
5' Rec	10	5.7 SAA 7-8.2 CLM, NEWSE, WOIST, OXINGE BrOWN 8.2-10 SANNY SILT, MOIST, NEWSE, CRUCE	Braine	O PPW
3` rec		MOTET, MEN DENSE, BRADGE BROWN	1 . 10-0	J pour
2.5' REL	-	15-17 SAA 17.0-17.2 COMESE GRAFE 17.2-17.5 CLM, NEUSE, ORNOEBI	100	6 ppm
3' Rec		20-20-4 SAA), WELL SOKTED, WORL SOKTED, WORST, DELISE OTRIGE BROWN	* 2 2	מקני ס

WILL !

A. The

4

A 41



1 .		1	Field Boring Log	10	9	1 1 1 1
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soll Sample	Groundwate	Sample IDs and Notes
4	4' REL		25-29 SAA NET			O ppm
	/ /	4 =			X	OPPM ADG-BONEYARD-1-6
1 3	and or	30	EOR 0 301			The state of the s
	Ass.	35			1	
	Aires 6	March C	M 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			* 1
7	Protestic .	40	The some to be found to be		1	1.244
A I	3370	45	12 12 12 12 12 12 12 12 12 12 12 12 12 1	8.3	27.9	100
	1 1	50 4	11.2-14 though 15.25 2 24	E G	-	21 161
	sold .	1/2	1940 2 1 20 1 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2		1	

PVC: 1'

MW: 25.34 24.34

1782 28.70

SAMPLE: Aph-Boneyard-1-6W-031121

20910

OR 14.56 5.37 72 0.103 7.62



126 - HELICOPTER - FIRE -

			CK - PIRE -		
			Field Boring Log		
Client: U		Field Location:	Boring ID: Date: 3 12/21		
	@2118216.3005.8AC00		Latitude: Longitude:	Ground Surface Elevation:	
Site:	Aberdeen Proving Groun	d	Drilling Method: Drill Rig Model:	Oldand Guilace Erivation.	
Logged t			Soil Sampling Method: Groundwater Sampling Me	ethod:	
Drilling C Driller:	0,:		Hole Diameter: Total Depth of Boring:	Reference Datum:	
Dimoi.			Depth to First Encountered Water:		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	es electron of the state of the	
	0-5 NAWD AVER	5_	1) BYSE, BROWN	X APG-HGLIEOPTER - FIRE -	Sú
	5 PER	10_	WET, MED NEWSE, BROWN	Oppm Oppm	
	O' REC	15	- BRIVIUE POINT MUI) SETTING WELL TO 14' -HEAVING SANDS 5.0.13 Q 14'	x MB-HENCOPTER-FIRE-0	6W
-		20_		1488	

DTW: 5.24 DTB: 15 11 STICK UP

TURB TEMP PH ORP CONI 100

OR 16.30 6.09 232 0.142 +0.55 1.55



APG-BLAG-2308-1

				Field Boring Log		
lient: l		Field Local	tion:	Boring ID: Date: 3 12 2		
	02118216.3005.8AC00			Latitude: Longitude:	Ground	Surface Elevation:
	Aberdeen Proving Ground	1		Drilling Method: Drill Rig Model:		CONTRACT CONTRACTOR
ogged b				Soil Sampling Method: Groundwater Sampling Me		- Data-
Drilling C	0.:				Referen	ce Datum:
Driller:				Depth to First Encountered Water:	- 6	
Time	Drill Notes		Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	0-3.5 HAW)	-	5_	3.5-5 SILTY CLTY, MOIST DEUSE, BROWN		J PPM
	5' 1260		10_	5-10 SAA		- OPPM
	5 REC		15	10-12. F SAA 12-F-15 F-SAND, WELL SOLTED MOIST, MEN DEUSE, ORAULE BROWN		O 3PM
	3.10' RE		-	- 15-18-10 F-C SIND SOME F-C COBBLES, POORLY SORTED, MOIST MEN DENSE, OPPLIER BROWN		o pim
	4' REC		:	20-21 SAA 21-21.4 GRNEL LAYER 21.4-24 F-SAUS, NOWL SORTES MOIST, MES DEUSE GRUNDE BROWN		079~

			1 -8359 - 5079	91	N. C.
			Field Boring Log		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	4' KEL	30	25-29 SAA		o bon
-	4' eez	35	30-34 SAA TRUE F-C GRAVER		Oppm
	3'REZ	40_	35-38 SAA AND DIE		d ppn t
	4' REC	45	40.44 SAA NO FLERWEL		o ppm
	3 RG	50_	45-48 SAA WET @ 48'		d bbn
	m 660	55	E.O.B @ 50'		27 1

DTN: 47.72

DTB: 50 NO STICK UP

APG-BLDG-2308-1-6W-031221

* INSUFF. WATER FOR READINGS



AP6-P1-12-1

			Field Boring Log	
roject No			Boring ID: Latitude: Longitude: Ground Surface Elevation: Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Method: Total Depth of Boring: Reference Datum:	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments) Sample IDs and Notes	
	NOTER NOTER	5	6-5 GANDY SILT, SONE F-C GENEL X APG-P1-12-1-50- MOIST, 1)6-5E, BROWN @ 1300	-(0-2
	2.6' 1260	10	6-6 SAA 6-F.6 SILTY SAND, WELL SORTED O PPM WOIST, MEN DENSE, OILMNIE BROWN	
	4.5' nor		WET, MEN NEWSE, UNDIE BROWN	
		20	E. CB. @15' AP6-P1-12-1-6A	J@
		- - - - 25		

DTW: 7.00 DTB: 15° NO STICK UP

TURB TEMP 714 URI? CON) DQ 012 11-28 4.77 222 0.134 5.78

APG-PI-MINEFIEUS-1



APL MINEFIELD-T COP

		-45-	7110	Field Boring Log	-	day.		
	£2118216.3005.8AC00 berdeen Proving Groun y:	Field Location		Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Groundwater Sampling Method: Hole Diameter: Dopth to First Encountered Water:	ethod	1:	Surface Elevation:	
Time	Drill Notes		Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes	
	0-5 HAND) AVIER		5_	WELL SURTED MIGHT MED DESSE BRUND			o pp~	
	4' REC		10	VET LOSE, BROWN		x	AR-PI-MINGFIED -1	- 6
			15	E.O.B @ 10'			BB-PI-MINGFIELD -1	
			20					
			25					

DTU: 8.48 DTB: 10 3' STICK UP

NO REMINDS - INSUFF WATER



APG- BLAG-300-2

			Field Boring Log				
Client: USAEC Field Location: Boring ID: Date: 3 / 15 / 2 / Latitude: Ground Surface Elevation: Client: USAEC Field Location: Latitude: Longitude: Ground Surface Elevation: Latitude: Drilling Model: Drilling Model: Groundwater Sampling Method: Groundwater Sampling Method: Total Depth of Boring: Reference Datum: Drilling: Depth to First Encountered Water: Depth to First Enco					THE REAL PROPERTY AND ADDRESS OF THE PARTY AND		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	r Sample	Sample IDs and Notes	
	0-5 HANS	-	NENSE, 32022			Oppm	
	5' per	-	95-10 SANDY CLAY, MED DENSE BIZONN			Oppm	
	4.5' REZ	15	BROWN 10-10-6 SAA 10-6-14-5 CLM NOIST MED NEUSE, BROWN			o bbm	
	3.8 REL	20	15.6-18.8 F-C SAWS, PODILY. SORTED, NET, MESS NEWSE, DENSE			f Oben	
		25	E.O. B. 20'		×	AP6-BLNG-300-2	-6

DTW: 16.67 DTB: 20 NO (TICK UP

TORB TOMP PH OKP (001). DU
OK 10-47 4.87 175 0-081 6.76

AP6-3LN6-300-1

			Field Boring Log		_	the state of the s
Client:	USAEC Fie	d Location:				
roject I	Nat2118216.3005.8AC00	Location:	Boring ID: Date: 2 15/2		_	
site:	Aberdeen Proving Ground		Drilling Mathed	Gro	ound	Surface Elevation:
ogged Orilling (100	Drill Rig Model:			The Lie and Li
Oriller:	0.:		Hole Diameter:	letho	i:	
		-	Depth to First Encountered Water: Total Depth of Boring:	Ref	eren	ce Datum:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	oil Sample	Groundwate	Sample IDs and Notes
	0-5 jund aver		0-5 compy SILT, MOIST, MED, NEWSE, BROWN	o o	9	Oppn
	51 pcz	5	5-8 SAA			7
	El ar		R-10 GANNY CLM, MOIST, MOS NEWE BROWN			o pom
	5' Rez	1. 7	10-18-3 SAA 153-122-16 CLM, MOIST, DOUSE COMY			Oppu
	-1	15	GIVY	2		Ť .
-1	2.51 1200	-	STRIFES, MESS INCHESE, BIET			open
	11 REL	20	BRUWN 20-21 SAA			
1	7 700	=	LO LI SAA			o how
		25				APG-13416-300-1-

E-0-13 @ 25'

@ 0930

1714: 14.78 DT18: 25 1' STICK UP

TURB TONK 1H OXP COUN DO
OR 12.42 5.31 202 0.067 2.28

Page _ of _



APG- EF15-1

Client:	USAEC	Field Location:	Boring ID: Date: 3/16/21		Et alland
	Nd02118216,3005,8AC00	Tiolo Codation	Latitude: Longitude:	Grou	nd Surface Elevation:
	Aberdeen Proving Ground	4	Drilling Method: Drill Rig Model:		
ogged I			Sail Sampling Mathad: Groundwater Sampling M	ethod:	
Drilling C			Hole Diameter: Total Depth of Boring:	Refer	rence Datum:
Driller:			Depth to First Encountered Water		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	0-5 HAND AVBER		0-2 24 MODIFIED SUB BASE 2- SILTY, MOTST, MGD DEUSE BROWN		O PPW
	31 1202		5-8 F-SAND WELL SORTED, WET LORSE, BIRCHH	*	OPPM APG- EF15-1-6NO
		10	C 0. B @ 9'		1240
		20	NTB: 10' 1' STIEK UP		
		20	OR 8-24 602 147 0-606 0-94		



MPG-BAF-56-1

lient: L	ISAFO		Field Boring Log		
roject No	02118216.3005.8AC00 Aberdeen Proving Groun	Field Location:	oring ID: attitude: Longitude: Ground Surface Elevation: oriling Method: Orill Rig Model: ole Diameter: Total Depth of Boring: Reference Datum: public First Encountered Water:		
Time	Drill Notes	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	6-5 ilms Aveens	5	0-5 SILT, NOIST, LODGE, BROWN	*	1120 6 ppm
	3 1252	10_			0 ppm → × AP6-13AF-56-
		15_	T.O.B @ 8'		1150
Dest.		20_			
		25			

DTW: 6.86 DTB: 10' 2' STICK UP

TURN TEMP 2H ORP COUN 100 OR 7.63 5.72 188 0.160 7.42



APG- FUZE - 1

lient:	USAEC		Field Boring Log		
roject N	@2118216.3005.8AC00 Aberdeen Proving Groun	Field Location:	Boring ID: Date: \$ 1 to 21 Latitude: Longitude: Drilling Method: Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Note Drilling Method: Groundwater Sampling Note Date: Table Date: A Control of the Contro	lethod:	surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Depth to First Encountered Water: Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate r Sample	
	NIER		5', newst, Beaux/CRM	S 5 -	o ppm
	2' pa	10	5-7' F-SMID, WELL SORTED, L WCT, LLM @ 7' BROWN LORM	wsc	open
		15_	G.o.B. @ 101	Х	1050
		20			-
		25			

DTW: 4.80'
D713' 10 NO STICK UP

OR 7.34 5.23 6-225 141 10.48

ARCADIS | Design & Consultancy for natural and built assets

APG - AA5-1-6W

ent: U	SAEC 02118216.3005.8AC00 berdeen Provide	Harris	Field Boring Log			
: A	2118216.3005.8AC00	Field Location:	Boring ID:			
d happ	e Group	4	Latitude: Date: 514.121			
lling Co	. (2	4	D-99			
iller:			Drilling Method: Longitude:	Grou	nd S	urface Elevation:
101.			Sampling Method: Drill Rig Model:			
				thod:		
Time			Depth to First Encountered Water:	Refe	rence	Datum:
ime	Drill Notes	- 6	Tracer.	.,	101101	Datum.
- 1	or in Notes	Depth (feet bgs)	(principal components and principal components	m (
		0 5	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency descriptions.)	ā !	9 9	
		2	angularity; sorting; moisture contents and	E	育	
- 1	NUER NUER		angularity; sorting; moisture content; consistency/density; color; additional comments)	S	Groundwate r Sample	Sample IDs and Notes
	17MM 6-0			₹ 8	5 Q	
	Auto-		0-5 6424 6644	S	5	
	MACEIS	-	WET @ 51, NEWSE, BROWN ORAN			4
		-	WET A CI	1 1		Oppm
-			, NEUSE BROWN I NO ME		- 1	
	-1	5	Total order	A I		
	5 25					+1
	5 REZ	1 .	-5-9 F C	Γ Ι		V
			- SANN WELL SOFTEN		-	
			WET LODGE	1 1	lΙ	43
-			WET LODSE, GRM	ΙI	ΙI	Oppm
		10	7-10	ш	ΙI	- 1 1
			MUISTENCY, GRAY	1 1	1 1	
1			- Mail7/ WED HELSE	1 1	ΙI	V
1			10136 WET 1844	-	_	
1			1 61010			100
			= E.O. 3 @ 101	1 1	ı	ME-AA5-1-6+
		15	- C. B @ 101		ы	
1			6 10		X	0920
1					·	0120
1						
1		1	7			
		1	4			
-			-	1		
		20				
		16				
1		1.6	7	1		L.
1			7			
			-		1	
		1.5				
		25				

DTW: 603 DTB: 10 NO STICK UP

TUZIS TEMP PH ORP COND DO
OR 10-69 5-37 213 0.212 10.38

AP6-BU16- EST80-2

0.11			Field Boring Log			
Project N	USAEC Id02118216.3005.8AC00	Field Location:	Boring ID: Date: 3/17/21 Latitude: Longitude:	C=0.	and 6	Surface Elevation:
Site:	Aberdeen Proving Group	d	Drilling Method: Longitude: Drill Rig Model:	Grou	ına s	Surface Elevation.
Logged D	y: /A		Soil Sampling Method: Groundwater Sampling M	lethod	,	
Drilling C Driller:	0.;		Hole Diameter: Total Depth of Boring:			ce Datum:
Timor.			Depth to First Encountered Water:	1.10.1		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes
	0-5 HANIS AV	5	3-5 SANDY CLAY, DRY, DENSE, CAMPTAN			o pom
	5' REC	10_	MEN ISENSE, GRAY/TAN		×	Oppm AP6-13LAG-ESTE0-2-6+
		15	6.0.B. @ 10'			1400
		20	DTB 10' NO STICK UP SAMPLE D 1406			
		25	INSUFFIC - WATER FUR REGIDINGS			

	all "		Field Boring Log			
Client: USAEC Field Location: Boring ID: Latitude: Longitude: Latitude: Drill Rig Model: Site: Aberdeen Proving Ground Logged by: Drilling Co.: Hole Diameter: Total Depth of Boring Drilling: Depth to First Encountered Water:					od: ferenc	Surface Elevation: se Datum:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes M76-BUNG-E 5780-1-50
	U-5 HAWS AVIER	5	0-5 chypy SILT, MOIST, MEN DENSE Brown	*		1230 0 ppm
	51 eac	=	5-16 CLM, DRY, DENSE, CRY			o ppm
	4 pec	15	10-13 Chay SAM 13-14 F-SAND, WELL SORTED, MOIST, MED DENSE, TAN		100	o ppm
	4' ROL	20	15-19 3AA			o ppm
	31 RGC	25	20-23 GANDY CAM I MOIST, DENSE,			f g bbm

5 REC 25 25-27 SAA

27-30 F-SAND, NELL SORTED, MOILT/NET X APG-BLDG-E5180-6-6W

106NSE, GRYISH TAN

6W

APG-BLDG-E5180-6-6W

61315

DTW: 15.10

DTB: 30 No STICK UP

TURB TEMP PH ORP COND DO
OR 16.22 4.93 84 6.713 6.62

APG-NOBLE-120AD-1-6N

			Field Boring Log			
Client: Project N Site: Logged t Drilling C Driller:	M02118216.3005.8AC00 Aberdeen Proving Groun by:	Field Location: d	Boring ID: Latitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water: Date: Longitude: Drill Rig Model: Oroundwater Sampling Method: Total Depth of Boring:	Refe	d: erenc	Surface Elevation: e Datum:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes
	0-5 Imms 4	V। स्ति — — — — 5	0-5 smisy cury WET Q 2 BROWN			AP6-NOISLE-ROAD-1-6W(
		10	EU.B. 61			103 d
	* 5:	15	DTW: 3.48 1773: 6 1.7' STICK UP			
		20	TULD TEMP. PH ORP COUND NO OR 9.36 7.50 73 0.247 9.78			
		25				



AP6-BLOG-E4801-1

			Field Boring Log				
Client: U Project No Site: A Logged by Drilling Co Driller:	02118216.3005.8AC00 Aberdeen Proving Ground y:	cation:	Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Me	ethod:		Surface Elevation: se Daturn:	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	r Sample	Sample IDs and Notes	
	0-5 HAND AVER	5	3-5 chyley SILT MOIST, NEW NELSE			o ppm	
		10	5.72 CLM MOIST NEWSE GRAM 7.2-10 F = SAND WELL SORTED, MED DEUSE WET TAN/GRAM		×	APG-BLNG-E4F01-1-	6W@ 12
		15_	5.0.B @ 10'				
		20	DTB: 10 HO STICK UP				
			10.26°C 0.075 m5/cm 6.01 PH >1000 NTU 41 ORP 11.96 m5/L D0				

APE-WEIDE-1

Client: I	10.1		Field Boring Log				
Project No Site: A Logged be Drilling Co Driller:	berrie 3005,8AC00	Field Location:	Boring ID: Date: 3 17 21 Latitude: Longitude: Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling M Hole Diameter: Total Depth of Boring:	ethod	l:	Surface Elevation: se Datum:	
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate r Sample	Sample IDs and Notes	
	MIER HAND		Brown	*		408-MEIDE-1-80-CO	-2
	5 ' REC	10	7-6-10 F-SAND WELL SORTED, MENDELSE WET TAN		×	O PIPM APG-WEINE-1-EW Q	il
		15	C. O. B @ 10'				
		20	DTW: GOS DTB: 10 L" STICK UP				
		25	TURN CO INSUFF. WATER FOR READINGS		-		

APG-71-12- Z

		Field Boring Log	3/11/21
Client: USAEC Project N@2118216.3005.8A clite: Aberdeen Proving G cogged by: Corilling Co.: Cori	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Groundwater Sampling h Hole Diameter: Depth to First Encountered Water:	Gound Surface Elevators	
Time Drill No	Depth (feet bgs)	Soll/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Sample IDs and Notes Sample IDs and Notes
ALE KNI		MIX OF STOWERS, GREWER +	x 1400
4' 12	TAX .	5-8.5 SANDY SILT WI F-C GRAGE, MOIST, MGN NEWSE BROWN F-SAND WELLS ORTED, MI	Oppm 1
0' RG		- HONING SALIAS -NO ACC-	A APG- P1-12-2 2 1630
- Aller		6.0.13 @ 15	A 1630
*	20_		

DTW: 7.88 DTB: 15 NO STICK UP

TURES TEMP PIL OPR CONS 100 OR 1268 1.14 74 0.305 7-87

			Field Boring Log		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes
	41 REC	30	25-29 F-SAWD WELL SOKTED MOIST, INEWSE, GRANGE BROWN		6 PPM
	41 1262	35	30-34 SAA W/ F-C COBBLES		مرادا ب
	31 pec		35-38 SAA		Oppn 1
	31 per	45	40-43 SAA WET @ 43		t ppm
	3° pac	50	5-48 F-SANIX, WELL SORTED, NES DEUSE, WET, DEWGE BROWN GRAY @ THE BOTTOM	×	0 ppm A76-BLAGGZZ00-1-66 01250
			G. 0.13 Q 49' TW: TB: 49' 1' STICK UP		

XINSUFF WATER TOIR REMAINDS





ARCADIS | Design & Consultancy for natural and built assets | Boring ID: _______

AP6-BLD6-2200-1

			Field Boring Log	2
Client:	USAEC	Field Location:	Boring ID: Date: 3/18/2/	
	I@2118216.3005.8AC00		Latitude: Longitude:	Ground Surface Elevation:
	Aberdeen Proving Groun	d	Drilling Method: Drill Rig Model:	Cidalia Calicos Elevanos
Logged b			Soil Sampling Method: Groundwater Sampling Me	ethod:
Drilling C		-		Reference Datum:
Driller:			Depth to First Encountered Water:	
Time	Drill Notes	Depth	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Groundwate Groundwate Sample IDs and Notes
	0-5 MR KUI	FE 5	O-5 AIR MAIFED, MIX OF LINNEL, ROCKS & SANDY SILT	SIL EMPLE COLECTED PREVIOUS
	5 pec	10	MOIST DENSE GRAY I BROWN	0 127-
	41 rec	15	10-14 SAA	O PPM
	41 p.c.	20	15-16.9 CLM; NEWSE, MOIST, GRAY 16-9-19 F-C SAND POORY SORTED MOIST NEWSE, ORANGE BROWN	O ppm
	5' pe		20-25 SAA	6 ppn
4		25		



APG- CASEY- YARIS -!

			Field Boring Log										
Project I		cation:	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water:	atitude: Longitude: Ground Surface Elevation: prilling Method: Drill Rig Model: prilling Method: Groundwater Sampling Method: prilling Method: Groundwater Sampling Method: prilling Method: Reference Datum:									
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes							
	0-5 AIR MNIFE	5_	0-5 AIR KNIFED - NO DESCRIPTION AVAILABE GRAVEL PARILING LOT										
	5 260	10_	5-10 SANISY CAM, WELL SORTED WET, MESS HENSE, GRAY			o ppm							
	41 pez	15_	SURTED, WET, MED DENSE, GRAM		×	ADG- CASEY-YARD-1-61							
		20	DTW: 6.42 DTB: 15 NI STICK UP			@ 1200							
		25	TURB TEMP PH ORP PONT DU OR 10.82 5.26 157 0.410 0										



106-6-5TREET-1-

		TO SERVICE	Field Boring Log			
	NØ2118216.3005.8AC00 Aberdeen Proving Groun by:	Field Location:	Boring ID: Latitude: Longitude: Drilling Method: Soil Sampling Method: Hole Diameter: Depth to First Encountered Water:	d Surface Elevation:		
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate	Sample IDs and Notes M26 - 6 - 578 = 57 - 1 - 50 - (1
	DPT NOT	2/ =	DELISE, ERMY CLAY, GILVE'S, NOIST	X	@ 1030 O PPM	
	5' 1262	10	5-10 CMY, MOIST, MGS NEWSE		Oppm	
	5 1 282	15	10-15' SAA WET Q 10'		J Dbw	
	41 1202	20	15-17' SAA 17-19 F-SAND, WELL SORTED, HEUSE WET, RENDISH BROWN	,	0 ppm APL-L-STREET-1-6N CM	o
		25	5.0.B@ 19" TURB DTIB: 20" 1" STICK UP OR	70	191 4.75 201 0-112 0)



N6-1212- E4040-1

1670		Field Boring Log											
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample	Groundwate	Sample IDs and Notes							
		30	DTW: 11 PT13: 25 NO STICK UP		*	AP6-BLOL-E4040-1							
		35	TURB TEMP 7H ORP COND DO 612 10.54 5.56 134 0.131 0										
	Art mas tolls	40_		3									
		45											
		50											





ADG-13W6-E4040-1

			Field Boring Log		
roject l ite: ogged	USAEC NØ2118216.3005.8AC00 Aberdeen Proving Ground by: 20 Co.: 6\$1	Field Location:	Drilling Method: Drill Rig Model: Soil Sampling Method: Groundwater Sampling Me	ethod:	Surface Elevation:
Time	Drill Notes	Depth (feet bgs)	Soil/Rock Description (principal components and angularity; minor components and angularity; sorting; moisture content; consistency/density; color; additional comments)	Soil Sample Groundwate r Sample	
	0-5 HAND AVER	5	4-5 F-SAND WELL SORTED MOIST, MGD	X	MG-BLISC - E4040-1-50 @ 0900 O DM
	s' Rer	10	5.7.9 SAM 7.9-8.2 CUY SEM F.2-8.10 E-SAMI) 8-10-95 CUY SCHM		Oppm
	5' pa		10-15 F-SANIS, WAL SURTAS , MOIST, DEUSE,		o ppm
	3' REI	20_	16-18 CLM MUIST NEWSE GAM		o prm
	51 pec		20-22 SAA 22-25 F-SAND, WELL SURTED, MEN NOWSE WET, GRM		e blw

21111 UCAIR

Project No	02116216.3		Low-Row Groundwa			Wwd 60	APG-F	1A - MC	27	Date	3/1/71	
Point Named o						Personnel.	C. Ortolano, A				benny	
	Central I	Menteen Provin	a Ground, MD				distribution.	A STATE OF THE PARTY OF THE PAR		Wed Material		PVC
peschipou: perantofi b/	TOC		Setting (8-bloc):	giviA		Cooling Diameter (in.):	RNA		_		MHA	86
FOC Elevation:	EN/A	_	Yotal Depth As Built (ft bgs):	MIA		Sample Method:						
Static Weter			Measured (fi bloc): Pump Intaka (fi-bloc):	_	_	Purge Method:	Rich	mile	,	Locked on An	tival?	Q H
Level (ft-btoc):	_		Pump Intaka (fi-bloc):			Repair needed?	444	yes	_	Locked at De		(T) H
Pump On:	_		Volume Purged (L):				NA		_	Country at De		
Water Quality M	leter Make/ M	odet: YSI 60	00 MPS, Hach 2100 Q. Se	e calibration	log for sen	sat numbers.	10%	0.1	10 mV	10%, w/n 1 M7	U # <16	
Stabilization para Time		ngs. Rute	Depth to Water	Liters	Temp.	Conductivity	Dissolved	pH	ORP	Turbidity		erence
(approx. 3-5 minute interval)	Minutes Elapsed	(miL/min)	(& not to exceed 0.3 ft or <10% of sat. screen) (ft bloc)	Purped	(**)	(mS/cm)	(mg/L)	(S.U.)	(mV)	(NTU)	Color	Odor
			NOTES									-
			1		-					-		
			10.		-							
		16	1	_								
		5					-					-
										+		
			-	_	-							
					-							
	- 2								_			-
	- 6											
					-	3				1		
								1				-
							-			1		-
				_	-							
Sample Time:		1450		Di	IS/MSD: Cuplicate: Cut Blank: C		Equipmen	uplicate ID: nt Blank ID:	=	_	Time	
Notes:	Bladd	er pun	p from PIN	F Co.	ntanc	1	Samo	14 6	ollect	ed vro	_	
onstituents samp	HA		IN GRAB		Container:		-		Number:	Preservative*		Collected?
AS Group*	pied			250.		PE w/ HDPE screw o	сар		2	-		
					_				_			
									_		_	
										-	_	
									_	_	_	
	cooled as soon	as possible to \$ 6°C	elsius.	- Includes	18 constitue	ents as prescribed in	n sampling analy	eis nlan		-	Total:	
bottles should be		1,5° = 0.09		5" = 0.26		10.50 10.65	6* = 1.47	ere plant.			Total	
bottles should be ons/Foot 1	= 0.04 25" = 0.06	2" = 0.16										
ons/Foot 1 1. Il and Location Int	25" = 0.06 formation	2" = 0.16	,	⇒0.37	G.	0.65		-		an I.		
rn/Foot 1	25" = 0.06 formation ding Area:	0 K	,	÷0.37	<u>(4.</u>	70.65		Well Lock Co		OK / Pers	+	

4PG-\$TA-MIO 2 1570 3/2/21

Propes No.	02118216.30		Low-flow Groundwa				PG-ETA-	-MIQ		Date	3/2/21
Project Name/La			ing Ground, MD			Personnel:		M. Biower			100 Sunny
Measuring Pt. Description:	тос		Screen			Casing				Well Material:	E MIA PV
TOC Elevation:			Setting (ft-bloc): Total Depth	MNA	_	Diameter (in.):			_		MYA S6
			As Built (ft tigs):			Sample Method: ⁸	bl Landing	RAB			
Static Water Level (fl-btoc):			Measured (ft bloc):				at.	Belle	,		1
Pump Orc	-		Pump Intake (ft-bloc):			Purge Method:	Bloods	8		Locked on Arri	8
	- marile		Volume Purged (L):			Repair needed?	NA		_	Locked at Dep	parture? (Y) N
Water Quality Me Stabilization paran		-	00 MPS, Hach 2100 Q. See	e calibration							
Time (approx. 3-5	Minutes Elapsed	Rate <250	Depth to Water	Liters	3% Temp.	3% Conductivity	10% Dissolved	0.1 pH	10 mV ORP	10%, win 1 NTU Turbidity	
(approx. 3-5 minute interval)	Daper	(mL/min)	(A not to exceed 0.3 ft or <10% of sat. screen)	Purped	(4)	(mS/cm)	Oxygen (mg/L)	(5.U.)	(mV)	(NTU)	Appearance Color Od
			Poxes		-				_	1	
			10×							+	
			6								
	1	SKY	+								
		SV	+		_	+	\vdash	1		+-+	
	+		+		-			-		1	
								+		+	
	-										
	-		+		-	+		$\overline{}$		1	
							\leftarrow	-		+	-
	-										
			+		\vdash	-	\longrightarrow	-		1	
								1		+-+	
										+	
Sample Time:	Label Start d/Pump Off	1570	-030221	Dup	Y IS/MSD: uplicate: ut Blank:			Ouplicate ID:			Time:
Notes:	# Blad		ump supplie	9 pr	PIN	SE DOL C	companie	ble w	1th	PFAS FR	ZEE.
Constituents sample		dres,	GRAB Samp	4 4	Container:	Boile 10	Meeted	No	Number:	Preservative*	
AS Group				2502	500 mL HDF1	PE w/ HDPE screw cap	,		Z	-	Collected?
								4 1 17	_		
								_			
				1				i 17			
Il bottles should be co	and as soon a	in s 6°C		- dee 1	Haver	4.11		_	40	-	
lons/Foot 1*:	= 0.04 25" = 0.06	1.5* = 0.09 2* = 0.16	2.5	- Includes 18 5' = 0.26 = 0.37	8 constituent	nts as prescribed in sa	sampling analysi	sis plan.			Total:
and total	ormation			0.37	<u> </u>	5					
and Location Info	sma . 6.	\V									
eli and Location Info condition of Surroundi Condition of We		OK OK						Well Lock Cond	_	Yes / No	

	02118216.3	005.8AC00	V			Well ID:	NB-MW	- 14A-	030921	Date:	3/9/3	1
roject Name/Lo		Aberdeen Provin	Ground MD			Personnel:	C. Ortolano, N			Weather:	Sunn-	50'5
Measuring Pt. Description:	тос		Screen Setting (ft-btoc):	#N/A		Casing Diameter (in.):	#N/A	n, Dionei		Well Materia		PVC SS
OC Elevation:	#N/A		the state of the s									
			Total Depth As Built (ft bgs):	#N/A		Sample Method:	Low Flow					
Static Water			Measured (ft btoc):			Cample Metrico.	Low-Flow	_	_			_
evel (ft-btoc):	16.9	6	Pump Intake (ft-btoc):			Purge Method:	Blade	w		Locked on A	rrival?	(Y)IN
Pump On:	1450					1				Locked at De		(Y) N
		· Control of the cont	Volume Purged (L):	_	_	Repair needed?	NA		_	Locked at De	parturer	0
Vater Quality M Stabilization parar		_	00 MPS, Hach 2100 Q. Se	e calibration								
Time	Minutes	Rate <250	Depth to Water	Litera	3% Temp.	3% Conductivity	10% Dissolved	0.1 pH	10 mV ORP	10%, win 1 N Turbidity		10.22
(approx. 3-5 minute interval)	Elapsed	<250 (mL/min)	(Δ not to exceed 0.3 ft or <10% of sat. screen) (ft btoc)	Purged GAL	(°C)	(mS/cm)	Oxygen (mg/L)	(S.U.)	(mV)	(NTU)	Color	pearance Od
1455	5	200	€ 16.97	0.25	17.59	0.070	17.96	5.18	253	17.3	new	no
1200	10	200	16.98	0.50	17.17	0.070	13.05	5.29	H3 255	13.01	1	1
1505	15	200	110.98	0.75	18.01	0.067	11.69	5.79	262	16.1		++
1210	20	200	16.98	1-0	17:12	0.066	11.49	5.21	766	16.10		-
1512	25	700	16.98	1.75	18.01	0.064	11.18	5.19	276	16.1	1	V
1570	30		SAMPLE .								_	
							-			-		_
			-									_
							-	-			_	
_					_			-		-		-
	_											+
								_		-		+
							-				-	-
								_		-		-
										-	-	
										-		+
			-		_					-		_
			_				-					-
			_									
				-								
												-
Sample ID:		1450 1525	-14A-0309Z	. D	AS/MSD: Cuplicate: Cup		Equipm	Duplicate ID ent Blank ID		_	Tir	me:
	~ 71	114 174										
En	~ 20	3.14 GA							Number:	Preservative		Collected
Notes:		5.14 GA			Container: 500 mL HD		сар		Number.	_		
Notes:		J. 14 GA				PE w/ HDPE screw	сар		Humber.			
Notes:		J.14 GA					сар			=		000
Notes:		J.14 GA					сар		Number:			0000
Notes:		5.14 GA					сар					0000
Notes:		5.14 GA					сар			-		00000
Notes:		5.14 GA					сар			-		000000
Notes: constituents sarr FAS Group*	pled				500 mL HD	PE w/ HDPE screw		alveis plan		-		0000000
En Notes: onstituents sarr FAS Group*	e cooled as soo	n as possible to ≤ 6	*Celsius.	* - Includes	500 mL HD	PE w/ HDPE screw		alysis plan.	- Indicate:		Tol	0000000
Notes: onstituents sam FAS Group*	e cooled as soo	n as possible to \$ 6	*Celsius,	* - includes 2.5" = 0.28 3" = 0.37	500 mL HD	PE w/ HDPE screw	in sampling an	alysis plan.	- Indicate of the second of th		To	0000000
Notes: onstituents sam FAS Group* ij bottles should be one-Fool	e cooled as soo 1° = 0.04 1.25° = 0.05 information	n as possible to ≤ 6 1,7 = 0.1 7 = 0.16	*Celsius,	2.5" = 0.26	500 mL HD	PE w/ HDPE screw	in sampling an			- - - -	Tol	0000000
Notes: constituents same AS Group* bottles should be noted as a second as a s	e coded as soot 1°=0.64 1.25°=0.00 information inding Area:	n as possible to \$ 6 1.5 = 0.5 2 = 0.16	*Celsius,	2.5" = 0.26	500 mL HD	PE w/ HDPE screw	in sampling ans		Condition:		Tol	0000000
Notes: Onstituents sam AS Group*	e cooled as soon 1* = 0.04 1,25* = 0.05 information unding Area:	n as possible to ≤ 6 1,7 = 0.1 7 = 0.16	*Celsius,	2.5" = 0.26	500 mL HD	PE w/ HDPE screw	in sampling ans	Well Lock	Condition:	- - - -		00000000

ject No. 0	2118216.30	05.8AC00	Low-flow Groundwate			A DECEMBER OF THE PARTY OF THE	B-MW-	1A		Date:	3/9/2	1
ect Name/Loca	ation: A	berdeen Proving	Ground, MD			Personnel:	C. Ortolano, M			Weather:	Sunny 5	705
asuring Pt. scription:	гос		Screen Setting (ft-btoc):	#N/A		Casing Diameter (in.):	#N/A	Diono		Well Materia	I: #N/A #N/A	PVC SS
C Elevation: _	#N/A		Total Depth As Built (ft bgs):			Sample Method:	Low-Flow					
	16.61		Measured (ft btoc): Pump Intake (ft-btoc):	31.60	,	Purge Method:	*10.11.	,		Locked on A	mirel?	(Y) N
mp On:	1340			1.25	501	Repair needed?	Bladde			Locked at De		(A) N
ater Quality Me			00 MPS, Hach 2100 Q. Se				_NA		_	LOCADO AL DE	рыного	
Time	Minutes	ngs:	Don'th to Wester		3%	3%	10%	0.1	10 mV	10%, win 1 N	TU if <10	
(approx. 3-5 ninute interval)	Elapsed	Rate <250 (mL/min)	(A not to exceed 0.3 ft or <10% of sat. screen)	Liters Purged	Temp.	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	ORP (mV)	Turbidity (NTU)	Ap	pearance
345	5	200	(ft bloc)	0.75				3 - 3	101		Color	Odor
350	10	200	110.60	0.70	14.75	0.105	14.53	5.11	735	15.3	Clear	20
1355	15	700	16.61	0.35	13.46	0.081	17.90	5.15	237	17-6		1
1400	70	700	110.101	1-0		0.065	11-10	510	253	10.7		
1905	25	7.00	16.61	1.25	13.31	0.065	11.10	5.07	-	11.0		
1410	30		SAMPLE		13.09	0.065	11.10	5.04	767	11.3	1	V
				-								
			-1									
											-	
							3				-	
			1									
-								10.				
				-							1	-
Sample ID	OL.		W-11A - 0309Z	_								
Sample Time		1410			MS/MSD: Duplicate: ent Blank: Y!		14.75	Duplicate IC):	= 8-03-03	T	me:
Note		- 31.60				Pump Setting	gs:					
		~ 9.74	GAL VOIUME						-			
Constituents sa PFAS Group*	impled	-		_ 250	Containe -500 mL H	IT: IDPE w/ HDPE scre	w cap	-	Number:	Preservativ	ve*	Collected?
											_	
				3 1				_	_	_		
				-	-			_	_	-		
				_				_				
				_								
		soon as possible to		2.5" = 0.26	es 18 consti	tuents as prescribe	od in sampling a	nalysis plan.				otal:
ialons/Foot	1'= 0.04	1,5° ;	e0.09		es 18 consti	tuents as prescribe				04		
Material Foot Vell and Location Condition of Sun	1" = 0.04 1.25" = 0.08 In Information rounding Area:	0 K	= 0.09 0.16	2.5" = 0.26	es 18 consti	tuents as prescribe		Well Lo	ck Condition: _	OK (
atons/Foot Vell and Location	1" = 0.04 1.25" = 0.06 in Information rounding Area: of Well:	1.5°	- 0.09 0.16	2.5" = 0.26		tuents as prescribe			ck Condition: _	OK ,	No No	

leasuring Pt. escription: TO OC Elevation: Company of the secretary of the	29.19 1310 er Make/ Mc	erdeen Proving	Ground, MD Screen Setting (ft-bloc): Total Depth As Built (ft bgs): Measured (ft bloc): Volume Purged (L): OMPS, Hech 2100 Q. Se Depth to Water (Δ not to exceed 0.3 ft or -10% of sat screen) (ft bloc): Z9.17 Z9.17 Z9.17 Z9.17 Z9.17	35.6°		Personnel: Casing Diameter (in.): Sample Method: Purge Method: Repair needed? Inumbers. 3% Conductivity (mS/cm) 0.074 0.074 0.077 0.077 0.077	10% Dissolved Oxygen (mg/L) 10.07 10.07 10.11 10.17	M, Blower	10 mV ORP (mV) 307 791 789 297 781 283	Weather: Well Materia Locked on Ar Locked at De 10%, w'n 1 NT Turbidity (NTU) 39. Q 41. Q 27. Q 70. S	#N/A rival? parture? (PVC SS SS N N N N N N N N N N N N N N N N
leasuring Pt. escription: TO OC Elevation: ctatic Water evel (ft-btoc): Z pump On: 1/2 Water Quality Metel Stabilization paramet (approx. 3-5 minute interval) 1315 1320 1325 1335 1340 1345	29.19 1310 er Make/ Minutes Elapsed 5 10 15 70 25 30	750 (mUmin) 700 700 700 700	Screen Setting (ft-btoc): Total Depth As Built (ft bgs): Measured (ft btoc): Pump Intake (ft-btoc): Volume Purged (L): DMPS, Hech 2100 Q. Se Depth to water (Δ not to exceed 0.3 ft or -10% of sat. screen) (ft btoc) Z9.17 Z9.17 Z9.17 Z9.17	#N/A 35.6 ~7.8 Liters Purped 0.7.5 0.30 0.35	10g for series 3% Temp. (°C) 19.75 13.73 16.79 16.62 16.51	Diameter (in.): Sample Method: Purge Method: Repair needed? Inumbers. 3% Conductivity (ms/cm) 0.074 0.067 0.057 0.049	10% Dissolved Oxygen (mg/l.) 9 87 10.19 10.07 10.07	5.44 5.49 5.67 5.68	10 mV ORP (mV) 307 791 789 292 781	Locked on Ar Locked at De 10%, win 1 NT Turbidity (NTU) 39, (a 41.0 30.9 27.0	#N/A rival? parture? (Ulf <10 Appe Color	SS (V) N (S) N serance Odor
escription: TO OC Elevation: citatic Water evel (ft-btoc): Z pump On: 1/2 Water Quality Meter (approx. 3-5 minute interval) 1315 1320 1335 1340 1345	#N/A 29.19 1310 er Make/ Meters 3 readir Minutes Elapsed 5 10 15 70 25 30	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0	Setting (ft-bloc): Total Depth As Built (ft bgs): Measured (ft bloc): Pump Intake (ft-bloc): Volume Purged (L): MPS, Hach 2100 Q. Se Depth to Water (A not to exceed 0.3 ft or 10% of sat screen) (ft bloc) 29.17 29.17 29.17 29.17	#N/A 35.6 ~7.8 Liters Purped 0.7.5 0.30 0.35	10g for series 3% Temp. (°C) 19.75 13.73 16.79 16.62 16.51	Diameter (in.): Sample Method: Purge Method: Repair needed? Inumbers. 3% Conductivity (ms/cm) 0.074 0.067 0.057 0.049	10% Dissolved Oxygen (mg/l.) 9 87 10.19 10.07 10.07	5.44 5.49 5.67 5.68	10 mV ORP (mV) 307 791 789 292 781	10%, win 1 NT Turbidity (NTU) 39, @ 41.0 30.9 27.0	parture? (Uif <10 Appe Color	(V) N (S) N
oc Elevation: Static Water evel (ft-btoc): Pump On: Water Quality Metel Stabilization paramet (approx. 3-5 minute interval) 1315 1320 1325 1340 1345	#N/A 29.19 1310 er Make/ Meters 3 readir Minutes Elapsed 5 10 15 70 25 30	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0	As Built (ft bgs): Measured (ft btoc): Pump Intake (ft-btoc): Volume Purged (L):) MPS, Hach 2100 Q. Se Depth to Water (Δ not to exceed 0.3 ft or <10% of sat screen) (ft btoc) Z9.17 Z9.17 Z9.17 Z9.17 Z9.17	25.6 ~78 Liters Purped 0.25 0.50 0.35	10g for series 3% Temp. (°C) 19.75 13.73 16.79 16.62 16.51	Purge Method: Repair needed? al numbers. 3% Conductivity (ms/cm) 0.074 0.067 0.057 0.049	81add NO 10% Dissolved Oxygen (mg/L) 9 87 10.19 10.07 10.07	5.44 5.49 5.67 5.68	10 mV ORP (mV) 307 791 789 292 781	10%, win 1 NT Turbidity (NTU) 39, @ 41.0 30.9 27.0	parture? (S) N
evel (fi-btoc): 2 Pump On: 1 Water Quality Meter Stabilization paramete (approx. 3-5 minute interval) 1315 1320 1325 1340 1345	r Make/ Mc sters 3 reading Minutes Elapsed	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0	Measured (fl bloc): Pump Intake (fl-bloc): Volume Purged (L): DMPS, Hach 2100 Q. Se Depth to Water (Δ not to exceed 0.3 ft or c10% of sat. screen) (fl bloc) Z9.17 Z9.17 Z9.17 Z9.17 Z9.17	25.6 ~78 Liters Purped 0.25 0.50 0.35	10g for series 3% Temp. (°C) 19.75 13.73 16.79 16.62 16.51	Repair needed? Strumbers. 3% Conductivity (ms/cm) 0.074 0.067 0.057 0.049	10% Dissolved Oxygen (mg/L) 9 %7 10.19 10.07 10.07	5.44 5.49 5.67 5.68	10 mV ORP (mV) 307 791 789 292 781	10%, win 1 NT Turbidity (NTU) 39, @ 41.0 30.9 27.0	parture? (S) N
Pump On: Water Quality Meter Stabilization parametr (approx. 3-5 minute interval) 1315 1320 1325 1335 1340 1345	r Make/ Mc sters 3 reading Minutes Elapsed	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0	Volume Purged (L): DMPS, Hach 2100 Q. Se Depth to Water (Δ not to exceed 0.3 ft or (10% of sat. screen) (ft bloc) Z9.17 Z9.17 Z9.17 Z9.17 Z9.17	Liters Purped 0.75 0.50 0.75	19.75 19.75 19.75 19.75 16.79 16.67	Repair needed? Strumbers. 3% Conductivity (ms/cm) 0.074 0.067 0.057 0.049	10% Dissolved Oxygen (mg/L) 9 %7 10.19 10.07 10.07	5.44 5.49 5.67 5.68	10 mV ORP (mV) 307 791 789 292 781	10%, win 1 NT Turbidity (NTU) 39. 6 41. 0 30. 9	U if <10 Appe	Odor
Water Quality Meter Stabilization parametr Time (approx. 3-5 minute interval) 1315 1320 1325 1335 1340 1345	er Make/ Moters 3 readin Minutes Elapsed	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0	Depth to Water (Δ not to exceed 0.3 ft or -10% of sats coreen) (ft bloc) 29.17 29.17 29.17 29.17 29.17	0.25 0.50 0.35 1.0	3% Temp. (°C) 19.75 13.73 16.79 16.62	0.074 0.057 0.057 0.057 0.057	10% Dissolved Oxygen (mg/L) 9	5.44 5.49 5.67 5.68 5.94	0RP (mV) 307 291 789 292 781	Turbidity (NTU) 39. (e 41.0 30.9 27.0 20.5	Appe	Odor
Stabilization parametric (approx. 3-5 minute interval) 1315 1320 1325 1335 1340 1345	eters 3 readir Minutes Elapsed	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0	Depth to Water (Δ not to exceed 0.3 ft or <10% of sat. screen) (ft bloc) 29.17 29.17 29.17 29.17 29.17 29.17	0.25 0.50 0.35 1.0	3% Temp. (°C) 19.75 13.73 16.79 16.62	3% Conductivity (ms/cm) 0.074 0.067 0.057 0.049	Dissolved Oxygen (mg/L) 9 %7 10.19 10.07 10.07	5.44 5.49 5.67 5.68 5.94	0RP (mV) 307 291 789 292 781	Turbidity (NTU) 39. (e 41.0 30.9 27.0 20.5	Appe	Odor
Thre (approx. 3-5 minute interval) 1315 1320 1325 1335 1340 1345	Minutes Elapsed S iO IS 70 Z S 30	Rate <250 (mL/min) 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0	(fibloc) 29.17 29.17 29.17 29.17 29.17	0.25 0.50 0.75 1.0	19.75 19.73 16.79 16.62 16.51	(mS/cm) 6.074 6.067 6.057 6.069 6.069	0xygen (mg/L) 9 X7 10.19 10.07 10.07	(s.u.) 5.44 5.49 5.67 5.68 5.94	(mV) 307 291 789 292 781	(NTU) 39.6 41.0 30.9 27.0 20.5	Color	Odor
1320 1325 1330 1335 1340 1345	10 15 70 25 30	700 700 700	29.17 29.13 29.13 29.13 29.13	0.50	16.73 16.79 16.62 16.51	6.00.0 7.00.0 7.00.0 9.00.0	10.19	5.49 5.67 5.68 5.94	791 789 797 781	30.9 27.0 20.5	Clear	
1320 1325 1330 1335 1340 1345	15 70 75 30	700 700	79.17 79.17 79.17	0.75	16.79	0.057	10.07	5.67 5.68 5.94	789 292 781	30.9 27.0 20.5		
1325 1330 1335 1340 1345	15 70 75 30	700 700	71.17 79.17 79.17	1.25	16.62	0.049	10.07	5.68	781	27.0		
1370	30	200	29.17 29.17	1.25	16.51	180.0	10.11	5.94	781	20.5		1
1335	30		29.17	-		100						4
1345		700		1.50	16.14	0.086	10.14	3.10	201			
1345	35	- 15	SAMPLE								V .	
Sample ID: A		05										
Sample ID: A		(6)						-				
Sample ID: A												
Sample ID: A												
Sample ID: A					2.30			-				
Sample ID: A			4									
Sample ID: A			-		0.00	7.7		91		1		
Sample ID: A												-
Sample ID: A					-	-		-		1		
Sample ID: A					-			V -	- 1			
Sample ID: A						, a **-	100					
Sample ID: A	-	-							-	. 8		
Sample ID: A								1.70	Jan Salan	1		
	Label _ Start _ I/Pump Off _	7A-MO8 7 134 1310 1350		Equipme	MS/MSD: Elements of the policy		Equipme	Ouplicate ID: ent Blank ID:	Mary.	-03/15	Time	5
Notes:		be Call		_	Container:	PE w/ HDPE screw of		1	Number:	Preservative*	- 35.5	Collected?
PFAS Group*	,,,,,			250	Seo mt HD	PE W/ NOTE SOOW C	A THE	68	- A.	34373		ō
					19		6 J. W.	30	1,1 -1	A	(A) (A)	
-	_				_		1-1	-	-	-	- A -	
					_	-	-	- 1	- A5	Var Tours	Tik	
						- 1		7 1 1	OX	10	2000	0
				-		4				4	THE STATE	
			Calcius	• - Includes	18 constitue	ents as prescribed I	n sampling ana	lysis plan.	Jan 1979	25.5	Total:	14.1
All bottles should be co	cooled as soo 1" = 0.04 1.25" = 0.05	1.5" = 0.09 2" = 0.16	Colo-Da.	2.5" = 0.26 3" = 0.37	(4.	0.65	6" = 1.47			24	A 15	- 11
Vell and Location Info	1.25" = 0.06 formation				_		7	Well Lock	Condition:	V yes	CAN -	1 35
Condition of Surround	nding Area:	OK	. / /	_			w	ell Locked at C	Departure:	(6) / N	lo	· · · · · · ·
Condition of We		See may	OLOK		91		1.4				5 1 1	1 1-314
Well Completion		REFI		3/11/	2.1	W.	Reviewed By			Date:	Car Sec	- Q - X-1

Low-flow Groundwater Purging and Sampling Form

Project No.		APG PFA	651 A86006	eu, M		Wed ID:	1.00A			Dele: _ Weether: _	12/16/ 489 C	
Messuring Pt. Description:	тос		Screen Setting (feet bloc):	5-1	s'_	Casing Diameter (inches):	3/4"		_	Well Material:		88
	UNK		Total Depth As Bulk (feet bgs): Measured (feet bloc): Pump Intaks (feet bloc): Volume Purged (flers):	15' 15' ~10		Sample Method: _	PERIST:	AITIC	-			
Valor Quality Me			elibration sheet		5%	5%	10%	0,1	10 mV	10%, win 1 MT	VI <10	
Time (approx. 3- to 6- minute interval)	Mirutes Elapsed	Rate <250 (mL/min)	Depth to Water (Δ not to exceed 0.3 foot <10% of set, screen) (feet biss)	Liters Purged	Temp.	Conductivity (m8/cm)	Dissolved Ckygan (mg/L)	(arm)	(=V)	(MTU)	Culor	Oder
0920	4	200	NM	.8	14.38	0.089	13.02	5.69	103	OVER	BODWA	NODE
0925	9	200	NM	1.8	15.05	0.084	8.15	5.33	62	OVER	11	11
0630	14	200	NM	2.8	5.01	0.085	7.68	5.81	49	- "	11	111
0935	19	200	NM	3.8	15.65		6.77	572	58	11	"	11
0940	24	100	NM	4.8	15.47	0.084	3.76	570	164	"	"	1505
CP45		nover	APO-E3-1-GU	0-121	21 -							1
							0					
	V											
	2 = 4											
							/	1/21				
						/	121	1				
						150						
					1	WHITE						
					1	W		455				
			-		1 4							
			+/		-	1						
								7				
		/								100		
					-							
Sample Time:	APG- Label_ Start_ VPump Off_	C	M-151851 5442 5446 5446		MS/MSD: [Duplicate: [ent Blank: [Duplicate IC):	AU AU (%02)		ime: UA ime: Uf
MODE:												22.00
onetituents sam FAS Group*	pled				250 mL H	Target and the second		_	Number	Preservati		Collected?
								_	_			0
				-					_			0 0
									=	_		0
ane/Feet	1"=0.04	on as possible to ≤ 0 1.5° = 0.		25-026	3	ents as prescribed	in sampling a	malysis plan.	-			Total:
I and Location in	1,25" = 0.06 formation	2 = 0.10		3" = 0.37		-0.05					20 A	
ondition of Surrou	nding Area:		NA		-		_	Well Lo	ck Condition:		UM	
			NA					The same of the sa		The state of the s		_
Condition of	Well:		NA			-	_	Well Locked	at Departure:	Yes /	No N	1

	300	01935			•	Med ID:	APG-E		<u>.</u>	_	17/16/7	
raject Neme/Lor	cellon:	APG-PPA	S SI ARREDEE	MI	_ '	Personnet	7.cope	EX	_	Neether: _	464 CLE	PVC
ecouring PL secription:	тос		Setting (feet bloc):	5'-10		Cooling Diameter (Inches):	3/4"		_	Weil Material:		88
OC Elevation:	UNK	_	Total Depth As Bull (feet bgs):	15		Sample Method:	Low-Flow		_			
alle Water			Measured (feet bloc):	151			100					
vel (feet bloc):		_	Pump Intelle (feet bloc):	~101	'	Purgo Method:	PERISTA	מוכ	-			
imp On:	0749		Volume Purged (Bers):	6	_							
ater Quality Med Missilon peram	200		albration sheet		5%	7%	10%	0.1	10 mV	10%, win 1 MT		
Time pprox. 3- to 6-	Minutes Elepsed	Rate <250	Depth to Water (A not to exceed 0.3 test	Litera	Tomp.	Conductivity	Coppon (mg/L)	gH	(mV)	erru)	Appea	
DACS	4	(mL/min)	<10% of cel. ecreen) (feet bloc)		(C)	(mS/cm)		(BLIN)		T. 12. A.	Color	Oder
EEFO.	4	200	NM	A	14.39	0.095	3.37	5.51	138	OVER	BEOOR	None
8250	9	700	NA	1.8	15.02	0.072	4.20	5,35	66	W	"	NOVE
0803	14	700	NM	28	15.16	0.068	4.65	5.69	56	939	CLEOR	- OCEA
0808	19	200	NM	3.8	14.75	0.066	4.58	2.68	44	FP	30	11
0813	24	700	NU	4.8	14.43	0.04	4.53	542	33	387		
0815	- SA	neved A	46-E4-1-GL	0-1216	4-							
- 10.10											-	
		- 4										
	1000						-					
							103					
							12/11/21					
					1		161					
					/	2						
					TAB	2		-		10 = 10		
		4	-		INO					H T		
			-		MI		-					
					10							
		_/	1						1			
					-				+			
					N-	_		_	-			
	APG.	E4-1-6	10-121671		MS/MSD: [-						
	Label_ Start_ /Pump Off_	Ö	815	-	Duplicate: C ant Blank: C			Duplicate II ment Blank II	D:	NA NA		me: D
ample Time:	Start /Pump Off	0	815	-				ment Blank I	D:	NA		me: Di
emple Time: End/ Notes:_	Start _ /Pump Off _	0	815	-	ent Blank: [Pump Settin		ment Blank I	D:	NA 0% (P\N	E BANTER	Collecte
End/ Notes:	Start _ /Pump Off _	0	815	-	ent Blenk: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collecte
End/ Notes:	Start _ /Pump Off _	0	815	-	ent Blank: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collecte
End/ Notes:	Start _ /Pump Off _	0	815	-	ent Blank: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collecte
End/ Notes:	Start _ /Pump Off _	•	815	-	ent Blank: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collecto
End/ Notes:	Start _ /Pump Off _	0	815	-	ent Blank: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collecte
emple Time: End/ Notes: _	Start _ /Pump Off _	•	815	-	ent Blank: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collecte
emple Time: End/	Start _ /Pump Off _	•	815	-	ent Blank: [Pump Settin		ment Blank I	0: (1C 4	NA 0% (P\N	E BANTER	Collector
End/ Notes:_ stituents sample B Group*	Start			Equipm	Container 250 ml. Hi	Pump Settin	ge: PF	EDISTIAL	Number:	NA 0% (P\N	E BATTER	Collecto
Notes:	Start	as possible to ≤ 6 1.F=0.1 2*=0.10	*Colokis.	Equipm	Container 250 ml. Hi	Pump Settin	ge: PF	EDISTIAL	Number:	NA 0% (P\N	E BATTER	Collecto
Notes:	Start	as possible to ≤ 6	*Colohus.	* - Include 25 = 0.37	Container 250 ml. Hi	Pump Settin	ge:PF	EDISTRU	Number:	Preserve	E BATTER	Collecto
Notes: tituents eampl Group*	Start	as possible to ≤ 6	*Colohus.	* - Include	Container 250 ml. Hi	Pump Settin	ge:PF	EDISTRU	Number	Preserve	E BATTER	Collecte

Low-flow Groundweter Purging and Sampling Form

Project No. Project Name/Loc	1. 1	APG-PFAS	SAMPLIATE /AD	Fepreu		Wed ID:	1.com		_	Dele: Weather:	12/15/2 53% CI	
leasuring PL leacription:	тос		Screen Setting (feet bloc):	16'-20	1	Ceeing Diameter (Inches):	3/4"			Well Material:	<u>_x</u>	88
OC Elevation:	UNK		Total Depth As Bulk (feet bgs):	400		Sample Method:	Low-Flow	-				
telic Water			Measured (feet bloc):									
evel (feet bloc):	17.13		Pump Intake (feet bloc):	~ 17.5		Purge Method:	PERISI	שוניונ	_			
ump On:	1330		Volume Purged (Bers):									
Vater Cuality Me	ter Make/ Mo	det See co	alibration sheet									
lab Realion perum					3%	3%	10%	0.1	10 mV	10%, win 1 M	U [<10	
Time approx. 3- to 6- minute interval)	Minutes Elapsed	Rate <250 (mL/min)	Depth to Water (A not to exceed 0.3 toot <10% of set, screen) (feet bloc)	Liters Purged	(C)	Conductivity (mS/cm)	Olasohed Oxygen (mg/L)	(STIT)	(mV)	(NTU)	Appea	Odor
1335	5	200	NM		14.98	0.059	2.96	5,45	180	OVER	BROWN	NOU
1340	10	200	MM	2	15.64	0.057	2.42	5.28	105	584	14	14
1345	15	200	MM	3	15.95	0.055	2.28	5.30	94	241	CLEAR	41
1350	10	200	MM	4	16.39	0.053	2.20	5.32	85	202	11	1/
1355	25	200	NM	5	16.47	0.053	2.12	532	86	180	- 11	_11_
1400	-30	MOLEO F	10G-ATC1-1-C	W-12	521 -							
		-								/		
	200											
								-	/			
							/					
	3						161			7		¥
						12/15	10.					
					200							
					NE							
					U							
_		/		-								
/												
Sample Time:	: Label Start nd/Pump Off		GW-121521		Y 4S/MSD: E Ouplicate: E nt Blank: E		Equipm	Duplicate ID: ent Blank ID:		PA PA	Time:	
Notes		acmies	×		04.1							
Constituents san PFAS Group*	mpsed				Container: 250 mL HD			-	Number:	Preservative -	-	Collected?
					-W	12/	212			_	_	
				-	169	~_		-	—	-	-	
				- 0	1)'—			-				
		- 4										_
^All bottles should t	be cooled as so	on as possible to s	6°Celekus.	* - Includes	18 constitue	ents as prescribed in	sampling and	alysis plan.			Total:	
Gallora/Fool	1"=0.04 1.26"=0.06	1.F=0 F=0.1	1.00	2.F=0.26 F=0.37	1.5	* = 0.80 • 0.85	E'=1.47					
Well and Location		- 5			- 1	71.T			ANSE		1 19.11	Para la la
Condition of Surro			AU AU					Well Lock	Condition: Departure:	Yes I	W I NA	

Project No.	_300	25810				Well ID:	APG-AT	CZ-1-G	W.	Date:	12/15/2	1
Project Name/Lo	cetion:	APG PERS	Samplus la	REPOR	ELL	Personnet	3.00	FEY		Weather:	50 C	EPR
Measuring Pt. Description:	TOC		Screen Setting (feet bloc):	4'-9'		Casing Diameter (inches):	3/4"			Well Meterial:	X_	PVC
TOC Elevation:	UNK		Total Depth As Bulk (feet bgs):			Sample Method:						
Static Water Level (feet bloc): Pump On:	3.83	17	Measured (feet bloc): Pump intake (feet bloc): Volume Purged (liters):	~51		Purge Method:	PFPLS	actic.	_			
Water Quality Me	ster Make/ M	odet: <u>See cal</u>	bration sheet									
Stabilization param Time					3%	3%	10%	0.1	10 mV	10%, win 1 NT	U140	
(approx. 3- to 6- minute interval)	Minutes Elepsed	Rate <250 (mL/min)	Depth to Water (\(\Delta\) not to exceed 0.3 foot <10% of eat. screen) (feet bloc)	Liters Purged	Temp.	Conductivity (m5/cm)	Citygen (mg/L)	(grrr) bH	(mV)	(NTU)	Appe	Odor
1206	2	200	NW	.2	12.67	0,040	5.21	5.20	711	OVER	BEAUD	HOLE
1211	5	200	NM	1.2	12 44	0.040	2.09	5.16	215	11	11	11
1216	12	200	NW	12	12.23	0.039	1.65	5.09	219	u	"	
1221	17	200	NM	3.2	17.35	0.038	1.51	509	219	11	- 11	
1776	22.	200	M	4.2	12.43	0.039	1.23	5.00	219	1.	**	- 11
1230	- SAN		- ATC2-1-GU					1.0.				
-3424												
										/		
								1		-		
								1				186
							1211	5/12				1
							10					
						0	7					+
						CAR						
	(-24)					1/1	11-					
						10						
												-
										-		
						-	7.7					
				100								
Sample Time: Enc	Label_ Start_ d/Pump Off_	1236 1236 1228 1237			MS/MSD: [Duplicate: [ont Blank: [Duplicate ID ment Blank IC		D-1-GW-17 NA	LAST A Tim	_
Notes: constituents same		LYLKATE.	Sample *		Container				Number:	Preservativ		Collecte
- Study				•	250 mL H	JPE .	-	_	2	-		12
					-	-		-		-		-
							-	-		_		
1.0							- les		-	-		0
					7	17	14/21		-			
				54	RO							
	_				U							
VI bottles should be	cooled as soo	n as possible to \$ 6°C	elakus.	* - Includes	18 constitu	ents as prescribed	in sameline s	nakeje nien				
done/Feet	1" = 0.04 1.25" = 0.06	1.F-0.00 F-0.16		2.F = 0.26 F = 0.37	3.0	F=0.00 =0.05	E = 1.47				10	tal:
The state of		AU					-	10000			IA.	
Condition of Surrou												
Condition of Surrou Condition of 1		NA					-	Well Locked a	k Condition: _	Yes /	NA 1 ASA	

X2.

Low-flow Groundwater Purging and Sampling Form

Project No.		TEPIO				Well ID:	APG-53	-1 - Gu		Date:	12/15/	71
roject Name/Loc	ation:	AOG AB	ERDREN, MD			Personnet	J.COFE	e y		Weather:	44° = C1	
easuring Pt. escription:	тос		Screen Setting (feet bloc):	5'-15		Ceeing				Well Material:	X	PVC
OC Elevation:	UNK		Total Depth	2-12		Diameter (inches	×3 4	-	-			88
tetic Water			As Built (feet bgs):			Sample Method:	Low-Flow					
rvel (feet bloc):	7.67		Messured (feet bloc):									
ump On:	0915		Pump Intake (feet bloc): Volume Purged (liters):	~10'		Purge Method:	PERK	MAUTIC	-			
fater Quality Me	ter Make/ Mo	det Res re	illuration sheet									
tabilization param	eters 3 readin	98:	E-FORMI SHOPE		-							
Time approx. 3- to 5- minute interval)	Minutes Elapsed	Rate <250 (mL/min)	Depth to Water (Δ not to exceed 0.3 text <10% of eat, screen)	Lilers Purged	Temp.	3% Conductivity	10% Dissolved Oxygen	Q.1	10 mV ORP	10%, win 1 Ni Turbidity		rance
2000	-		(feet bloc)		(°C)	(m&/cm)	(mg/L)	(8.U.)	(mV)	> VOCO	Color	Odor
0920	5	200	NM		12.71	0.100	0.93	5.62	81	OVER	BROWN	NONE
0930	10	200	Mu	2	13.88	890.0	1.32	5.33	26	11	11	N
0935	15	200	NW	3	14.37	0.100	2.09	5.33	4	14	VI	31
0940		200	NM	4	15.46		2.37	5.76	-1	a	- 11	11
0945	25	206	NW	5	15.57	0.105	2.30	5.74	3	849	11	u
D142	- SHI	ARD BE	6-52-1-60	-17157	_							
												_
							-					
				1			-			+		
						/						
						12/15	17	100				
						144						
				ale	2							
				y								
	()						7					
										7/1-5		
										West		
Sample ID: Sample Time:		09	3W-121521 3HC 3H2 0945 142	D	IS/MSD: [uplicate: [nt Blanic [Equipo ga: <u>PP&\S</u> T	Duplicate ID: nent Blank ID:		NA PA 0%	Time	-
Notes												
	npled				Container 250 mL H				Number:	Preservativ		Collected?
				•				-	_	-		-
				-								
				2.								
				-			15/21					_
					760		15/21		\equiv			0
					The state of the s		Jistzi		\equiv			0 0
PFAS Group*									Ξ			0 0 0
Constituents sen					18 constitu	vents as prescribe	d in sampling a	nalysis plan.			Tota	0 0 0
PFAS Group* *All bottles should I	1°=0.04 1.26°=0.06	on as possible to ≤ 1.5° = 0.	.m	*- Includes 2.F = 0.37	18 constitu						Total	0 0 0
PFAS Group*	1" = 0.04 1.26" = 0.05 Information	1.5' = 0.	.m	25-030	18 constitu	uents as prescribe	d in sampling a		Condition:	NA Yes /	Tota	0 0 0

Low-flow Groundwater Purging and Sampling Form

Project No. Project Name/Lo		4795 APG-P	FAS SAMPLLUG	ACERD		Well ID: Personnet	APG-SIA T.COPP		<u> </u>	Date: Weather:	12/15/2	
eccription:	тос		Somen	5'-15		Casing Diameter (Inches):	3/4			Well Material:	X	PVC 88
OC Elevation:	UNK	-	Total Depth As Built (feet bgs):			Sample Method:	Low-Flow					
niic Water val (fest bloc): mp On:			Measured (feet bloc): Pump Intake (feet bloc):			Purge Method:	PEUST	ALTIC	-			
mp On: Mar Quality Me	1034 by Make/ M		Valume Purged (Bere): _ albration sheet									
bilization peren	eters 3 reads	ige:			3%	9%	10%	0.1	10 mV	10%, win 1 M	U # <10	
Time pprox. 3- to 5- ninute interval)	Minutes Elapsed	Ratio <250 (mL/min)	Depth to Water (A not to exceed 0.3 test <10% of set, screen) (feet bloc)	Liters Purged	Temp. (°C)	Conductivity (mil/cm)	Chygan (mg/L)	(E.U.)	(m/)	(MTU)	Appea	rence Odor
1037	3	200	NM	3.6	16.43	0.056	7.15	551	132	979	BROWN	NODE
1045	8	200	NM	1.6	16.45	0.054	6.84	5.29	133	341	11	
FPOI	13	200	NM	2.6	16.47	0.052	6.79	5.31	140	23.6	CLEAR	- 11
1052	18	200	NM	3.6	16.52	0.051	6.76	5.29	142	9.8	14	W.
1/00		2DD	NM APG - SIA-1- G		16.47	0,051	6.67	5.76	143	4.8	10	
TIDO	- 3	NIV US	ANG - ZIH-I-G	D-17	27	1						
	DOC N		7									
										A L		
								/				
						1		Tes_				
							12/19					
						116				-		
						200						
			-		1 ()			400				
					1						-	
		-								1		
/												
Bemple Time: End	Label Start d/Pump Off	10	0-121521 348 1100 558	ı	MS/MSD: [Oupleate: [ont Blanic [Duplicate III ment Blank III		NA Au	Tim	
Notes:												
nstituents earn AS Group*	pled				250 mL H				Number:	Preservativ		Collected?
												-
								_	-	_	_	
				•	-				-	Siles .		
							2/15/21	_	-	-		
		7 9 98			(.A	re						ō
					UP							
J 10 10 10 10 10 10 10 10 10 10 10 10 10		n as possible to < 6	*Calaba	* - Include	s 18 constitu	ents as prescribed	in sampling m	nalysis plan.			То	at
والمساور والمساور		WI THE PROPERTY IN IS O										
	1" = 0.04 1.25" = 0.06	1,5° = 0,1 2° = 0,16	10	2.F = 0.26 F = 0.37		F = 0.00 = 0.05	€ =1.47					
	1" = 0.04 1.25" = 0.08 Information	1.5' - 0.4	10				F-1AT	Well Lo	sk Condition:			



	Page
Boring ID: _	

Boring ID:	
Drilling Method:	
Soil Sampling Method:	
Groundwater Sampling	Method

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Sample ID Date		Media	Sampling			lytes with X)		Sample Type (mark with X)				
10.44		Time	(SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	EB	SE
APG-BAE-A1-1-60 (030221)	3/2/21	1105	50	0-2		X	×	x	×				
APG-BAF-AI-1-GW (030221)	3/2/21	1300	GN	32.5	×				X				
PG-BAF-A1-2-50 (636221)		1375	60	0-2	X				X				
APG-BAF-A1-2-6W(630221)	3/2/21	1415	6N	34.5	X				X				
P6-BAR-B-1-50-(0-2)	3/2/21	1500	51	0-2	X	X	×	X	X				
PL-BAF-D-1-50-(6-2)	3/3/21	0915	50	0-2	×	X	×		×				
P6-BAF-13-1-6W	3 3 21	1000	611	29	×				X		1		
06-BAF- G-1-50-(0-2)	3/3/21	1650	50	0-2	X	X	7	X	x				
16-BAF-E-1-GW	3/3/21	1115	6 N	29	X				×				
PG-BLAG-1059-1-50-(0-2)	3/3/21	1200	50	0-2	X	7	*	*	X				
-BLDG-1059-1-6N	3/3/21	1230	6W :	34	*				·				
BLING-1065-1-50-6-2)	7/3/21	1320	50	0-2	*	7	x	X	7	M			
- BLID6-1065-1-6N	3/3/21	1400	6W		X				7				





	Page _	
Boring ID: _		

Boring ID:
Drilling Method:
Soil Sampling Method:
Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Date	Time	Media	Sampling Depth	25		lytes with X)				Sample Type (mark with X		
		1,000	(SO,GW)	(ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	EB	SB
196- LUANING-PAID-1-50-60-2	3/4/21	010	50	0-2	*	7	*	×	^				
APB-LEADING-PAD-1-6N	3/4/21	0950	6 N	33	х				×				
1P6-1UNGAR-1060-1-56-66-2)	3/4/21	1040	50	0-2	*	×	*	×	×		- (,		
196-14NGAR-1060-1-6N	3/4/21	1130	6W	34	X							-	
APG-MFR1-1-50-(8-16)	3/4/21	1215	50	8-10	X					×	Х		
AP6- MFR1-1-6N	3)4/21	1300	6N	38	X				×				
AP6-MFRI - 2 - 50- (8-10)	3/4/21	1400	50	8-10	×	X	*	×					
106-MFRI-2-6N	3/4/21	1430	EN	35'	X				×				
					-								
													\perp
~													

	Page_
Boring ID: _	

Boring ID:

Drilling Method:

Soil Sampling Method:

Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Samula ID	Date	Media		Sampling		Anal (mark)			Sample Type (mark with X)				
Sample ID	Date	Time	(SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	ЕВ	SB
APG - ABRG-1-6W-030521	3/5/21	0930	GW	29	X				×				
AP6-ABR7-1-50-(0-2)	3/5/21	1030	50	0-2	Х	×	*	X	X				
AP6-ABR6-1-50-(0-2)	3/5/21	0915	50	0-2	X	×	*	×	x				
MP6-ABR6-2-50-60-2)	3/5/21	1000	50	0-2	X	100	->	@	X				
APG-ABR7-1-50-(6-2)	3/5/21	1030	50	0-2	X	>	>	×	×				
APG-ABR7-1-6V	3/5/21	1345	6W	24	×	7							



	Page
Boring ID: _	-, 3-

Boring ID:

Drilling Method:

Soil Sampling Method:

Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Date	Time	Media	Sampling			alytes k with X)				Sample Typ (mark with X		
	Jule	Time	(SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	ЕВ	SB
APE-1383-1-50-60-2)	3/8/21	0830	50	0-2	×	^	>	*	F				
	3/4/21	0530	GN	24	×				×				
APG-BONEYARD-5-50-(0-2)	3/0/21	1000	50	0-2	×	-	(3)	×-	×				
APG-BENEYARD-5-50-(0-)	2/8/21	1035	6N	24	X				×				
APG- RONGYARD - 2-60-602	3/8/21	1110	Sò	0-2	×				~				
427 4	3/8/21	1140	6N	24	^				Y				
AP6-BONGYM213-3-50-(6-2)	3/8/21	1210	50	0-2	X				X				
	3/4/21	1250	6W	24	1				X				
AP6-BONEYARU-4-50-60-2)	3/8/21	1330	30	0-2	X				X				
PB-BONG/ARI) - 4-6W	3/8/21	1415	6W	27	x				×				



	Page _
Boring ID: _	

Boring ID:

Drilling Method:

Soil Sampling Method:

Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Dete	120.1	te Time Media Sampling				lytes with X)		Sample Type (mark with X)					
Sample ID	Date	Time	(SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	ЕВ	SB	
AP6-BONEYARS-1-50-60-2)	3/11/21	0830	Si	0-2	- x	7	L	>	x			13		
176-BONG/1215-1-6N	3/11/21	0910	6N	28	*		(0)	-	V.	ħ.			3	
196- RONEY +213-7-50-6-2) 3/11/21	0930	50	0-2	×	*		×	TX				-	
APG-BONEYND-7-6W	3/11/21	1010 .	6W	19	×	1		-	X	8 1	A Profes	47.2		
APG-BUNGYARI >- 6-50-602	3/11/21	1045	50	0-2	×				X	T.	4	4		
176-BONEY 4120-6-6W	3/11/21	1120	6 N	18	*	1	4		X	-	· ·		-	
APG- OLD-FTA-1-50-60-2)	311121	1230	SO	0-2	×	*	A	^	*		v	Per		
APG-005-FTA-1-6W	3/11/21	1310	6W	33	×				Y				, bi	
APG- OLD FTA- 2- 50-(02)	3/11/27	1325	50	0-2	X				×	r.			- 10-	
MG-008-FTA-2-GN	3/11/21	1410	en	33	X				X					
APG-FTA-MWUS	3/11/21	1345	GN	28	*	9	- v-v		1	X	X	1.00		
				7				3				127		
			1								1 80		1	



	Page
Boring ID: _	

Boring ID:	
Drilling Method:	
Soil Sampling Method:	

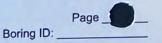
Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

		Time	100	Sampling		Ana (mark	lytes with X)				Sample Type (mark with X)		
Sample ID	Date		Media (SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	EB	SB
AP6-BUNG-2708-1-6W	3/12/21	امان	6N	50	×				X				
APL-HELICOPTER-FIRE-50-		1330	So	0-2	×	*	*	1	*				
AP6- HELICOPTER-FIRE-GW	3/12/21	1400	6W	14	^				λ				
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L.													





Boring ID:

Drilling Method:

Soil Sampling Method:

Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

	Date		Media (SO,GW)	Sampling Depth		(mark	with X)		Sample Type (mark with X)					
		Time	(SO,GW)	(ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	EB	SB	
APG-BUDE-300-1-60	3/15/01	0930	617	24	×				×					
AP6-BLD6-300-2-62	3/15/21	1040	6W	20	×				×					
AD6-BLAT-300-1-50-6	2)	1.45	50	0-2	×	y	Y	×	×					
AP6-BLA6-300-2-50-60-	2)	1100	30	0-2	7				×					
M6-81-12-1-50-(0-2)		1300	50	0-2	ж	×	×	*	*					
AP6-P1-12-2-50-(0-2)	+	1400	50	0-2	X		137		+					
AP6-71-12-1-6W	V	1340	6W	15	×				۲					
AP6-71-12-2-6W	NOT S	MILES	-											
MG-PI-MINEFIGIA-1	3/15/21	1515	6W	8	×				Y					
MB-71-MINEFIGIS-1-56/	-2)	1505	50	0-2	X	>	>	×	×					
PE-71-MINEGail-2-50-la	2) T	1515	50	0-2	×				1			- 7		
	LITTER TO													
					No. 1								-	



Boring ID: Drilling Method:

Soil Sampling Method:

Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Date	Time	Media	Sampling Depth			lytes with X)				Sample Type (mark with X)		
		Time	(SO,GW)	(ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	EB	SE
APL- AAS -1-6W	3/16/21	0120	6W	10	×				+				
AD6-AA5-1-SE		4900	SE	2-10 cm	×					X	X		
176- FUZE-1-SW		1040	SW	-	х					X	X		
DUP-06 (FUZE-15W)		1540	SW	-	×								
APG-FUZE-1-SE		1030	SE	0-10 cm	X				×				
APG-FUZE-1-6W		1050	6W	10	У				×				
616-BAF-56-1-50-(0-2)		1120	50	0-2	×	*	>	v	*				
126-1345-56-1-64		1150	BN	8	×				*				
PG-CF15-1-6W		1240	6W	9	×				1				
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			1 = 1										
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Boring ID:
Drilling Method:
Soil Sampling Method:
Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Date	Time	Media	Sampling Depth			lytes with X)				Sample Type (mark with X		
			(SO,GW)	(ft bgs)	PFAS	тос	Grain Size	pH	Normal	FD	MS/MSD	EB	SB
ADG-NOBLE-ROAD-1-6W	3/10/21	1030	6N	6	X					X	X		
176-WEIDE-1-50-(0-2)		1100	50	0-2	×	×	×	*	x				
MG-WEINE-1-6N		1130	6W	10	×				*				
AP6-1366-E 4501-1-6W		1210	6W	16	*				X				
APG-BLAG-EST80-1-50-CG	2)	1230	50	0-2	X	x	~	×	×				
176-8216-E5180-1-6N		13 15	6W	30	X				*				
AP6-BUD6-E5180-2-6W		1400	6W	10	×				X				



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Boring ID: _		

١	Boring ID:
١	Drilling Method:
١	Soil Sampling Method:
١	Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

Sample ID	Dete	7.2	Media	Sampling		Ana (mark	lytes with X)			Sample Type (mark with X)			
Cample ID	Date	Time	(SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	рН	Normal	FD	MS/MSD	EB	SB
AP6-P1-12-2-6N AP6-BLA6-2200-1-6N	3/18/21	1030	6W	15	火					X	X		
176-13LD6-2200-1-6W	3/18/21	1250	6N	49	λ				7				
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										-			
N.													
1													
													-

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Boring ID:		_

Boring ID:

Drilling Method:

Soil Sampling Method:

Groundwater Sampling Method:

Installation: Aberdeen Proving Ground, MD

Site Name:

			Media	Sampling	1 3 3	Analytes (mark with			Sample Type (mark with X)				
Sample ID	Date	Time	(SO,GW)	Depth (ft bgs)	PFAS	тос	Grain Size	pH	Normal	FD	MS/MSD	EB	SB
APG-6106-E40A0 - 40-6-1	18/19/21	0900	SO	0-2	/	1	/	1	/		90		
MOG-BLO 6-E4640-6W		0940	6W	25	×		FIFE		*				
M6-6-578557 +50-60-2)		1030	40	0-2	*	4	*	X	×				1 1
KP6-6- STREET-1-6W	1	1110	6W	19	*				×				
APG- CASGY-YARES - 1-6W	V	1200	6W										
									1				
									1				
			Bull										
					1000				1 =				
		1	MM'	1 8 1	-	1 1							

TAILGATE	HEALTH & SAFETY MEETING FO	RM - Pg. 2				
Control the hazards (Check all and discuss the	nose methods to control the hazards that will be	implemented for t	he day): Rev	ew the		
and other control production of the control production in the control	esses. Discuss and document any additional co	ontrol processes.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
STOP WORK AUTHORITY (Must be addr Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	essed in every Tailgate meeting - (See stateme Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	- (See statements below) Isolation Monitoring Respiratory Protection Decon Procedures Work Zones/Site Control				
		Carol Ispecia	<u>u</u>			
Signature an	d Certification Section - Site Staff	and Visitors				
	any/Signature	Initial & Sign in Time	Initial & Sign out Time	and understand the		
TEONORE JONES INFRAN DEHAMO Alexande Ricky & Whiten		TOT OFFICE OF CHILDREN	DML	HASD /		
Salah Kryston Atc Most Blover Arcadist Jane Ponnia Johnson UGS I M	Sk 10500 MB/0500		7			
Tel A Newland	DECEM SAD	M/osus		1		
Important Information and Numbers	Visitor Name/Co - not involved in work	I will STOP the job a uncertain about heal	any time anyone is o	concerned or		
All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns. In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.	In Out	hazard or additional project, job or task h I will be alert to any the work site or hazard assessments	mitigation not recor azard assessment. changes in personards not covered by	ded in the site,		
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	In Out	If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessments or the HASP as needed.				
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	I will not assist a subcontractor or other party with th work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.				
Post Daily Activities Review - Re	view at end of day or before next day's work (C	heck those ann	licable and ex	rolain:)		
Lessons learned and best practices learned Incidents that occurred today: Any Stop Work interventions today? Corrective/Preventive Actions needed for	ed today:	тоск иноос арр	ilicable allu 6/	унант.)		
Any other H&S issues:		Y				
<u>K</u> eep H&S 1 ^s	^t in all things	WorkCare - 1.8	00.455.6155			

2/10/21

Elimination Engineering General PPE Personal Hy Emergency	controls E Usage	essed in every Tailgate meeting - (See statem Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	Isolation Monitoring Respiratory Protection Decon Procedures Work Zones/Site Control Traffic Control Other (specify)		
THE REAL PROPERTY.		d Certification Section - Site Sta	THE RESIDENCE AND ADDRESS.		Thaverea
	Name/Comp	any/Signature	Initial & Sign in Time	Initial & Sign out Time	understand
For Johnson Licky L	and last for	Joan Jul	101/0800 101/0800		/
0 .	UNWAY APA DAW	Rules &	180 10500	MB/ Dec 0810	1
Saintry	sty ATC ENV	San yetin	SX 0800		
Echan Leihan	TO Alexander La	Thouse / Stelows	75 k800		1
Important in All site staff should a report to the supervi: In the event of an inj 1.800.455.6155 and will then notify the Politic than the event of a monotify the field super or Task Manager. In the event of a utili of a client or 3rd par	Information and Numbers Invive fit for work. If not, they should sor any restrictions or concerns. Invive fit for work. If not, they should sor any restrictions or concerns. Invited the supervisor who roject or Task Manager. It is the supervisor who will then notify the Project or vehicle accident, employees will visor who will then notify the Project ty strike or other damage to property ty, employees will immediately notify who will then immediately notify the	Visitor Name/Co - not involved in work In Out In Out In Out	I will STOP the job a uncertain about hea hazard or additional project, job or task hazard sasessment. I will be alert to any the work site or haz hazard assessment. If it is necessary to TRACK; and then a the HASP as needed. I will not assist as work unless it is ab after I have done T controlled the hazard.	Ith & safety or if an mitigation not reconstruction of the construction of the constru	yone identifier rded in the si - nnel, condition y the original will perform assessments her party with
Post Daily	Activities Review - R	eview at end of day or before next day's work	(Check those app	olicable and e	explain:)
Incidents th	arned and best practices learn at occurred today: fork interventions today?	ned today:	999 W		
	Preventive Actions needed fo	r future work:			
	I&S issues:			7	

TAII GATE	HEALTH & SAFETY MEETING	FORM - Pa 2
Control the hazards (Check all and discuss	those methods to control the hazards that will	he implemented for the day): Review the
and other control pro	cesses. Discuss and document any additional	il control processes.
STOP WORK AUTHORITY (Must be add	ressed in every Tailgate meeting - (See state	ments below)
	Substitution	Isolation
Engineering controls	Administrative controls	Monitoring
General PPE Usage	Hearing Conservation	Respiratory Protection
Personal Hygiene Emergency Action Plan (EAP)	Exposure Guidelines	Decon Procedures
JSA to be developed/used (specify)	Fall Protection	Work Zones/Site Control
[Specify]	TIP conducted (specify job/JSA)	Traffic Control
		Other (specify)
Signature a	nd Certification Section - Site Sta	off and Visitors
		Thave read
	pany/Signature	Time Time understand the
Dale Lynch ARLADIS	1 Du 1 7/-	INL/OFTO DML/
Pannie Johnson LIGS	D T	and low
Matt Blower / Arcadis/	San Andrews	1842 / ghy
Pan JANGEL MANTE	an man	
Es- 83 White	aller	
the was a way	0	
2 av Cran 80	rch Krystyn Atc	SKIGUS
Important Information and Numbers	Visitor Name/Co - not involved in work	I will STOP the job any time anyone is concerned or
All site staff should arrive fit for work. If not, they should	CONTRACTOR OF THE PARTY OF	uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site,
report to the supervisor any restrictions or concerns.	In Out	project, job or task hazard assessment.
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who	III Out	I will be alert to any changes in personnel, conditions at
will then notify the Project or Task Manager.	Selford or and "Self-a most call"	the work site or hazards not covered by the original hazard assessments,
In the event of a motor vehicle accident, employees will	In Out	If it is necessary to STOP THE JOB, I will perform
notify the field supervisor who will then notify the Project or Task Manager.		TRACK; and then amend the hazard assessments or the HASP as needed.
Control of the Contro	In Out	
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify		I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only
the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	after I have done TRACK and I have thoroughly controlled the hazard.
Post Daily Activities Review - Re	eview at end of day or before next day's work (Check those applicable and explain:)
Lessons learned and best practices learn	ed today:	Mary Horaston Control
Incidents that occurred today:		The same of the sa
Any Stop Work interventions today?	THE PURPLE OF THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED I	
Corrective/Preventive Actions needed for	future work:	
Any other H&S issues:		
	t in all things	WorkCare - 1.800.455.6155
Keep nas 1	in an timigs	



Document Control Number:TGM -	ARCADIS to readural and built assets
TGM + project number plus date as follows: xxxxxxxx.xxxx.xxxx - dd/mn	
TAILGATE HEALTH & SAFETY This form documents the tailgate meeting conducted in accordance with the President of the Presiden	
site during the day are required to attend this meeting and to act	knowledge their attendance, at least daily.
Project Name: AP6	Project Location:
Date: 3 2 21 Time: Conducted by: C. CRTOMND	Signature/Title: MAR CA
Client: AP6 Client Contact: Brush Conne	Subcontractor companies: 651
TRACKing the Tailgate Meeting	A STREET PROPERTY.
Think through the Tasks (list the tasks for the day):	
1 DECOR RUPS 3 NOTI- Sole SAME	5
2 SET UP LAY NUMB MICA 4	66
Other Hazardous Activities - Check the box if there are any other Arcadis, Clie	ent or other If there are none, write
party activities that may pose hazards to Arcadis If yes, describe them here:	s operations "None" here:
How will they be controlled?	
	THE RESERVE OF THE PARTY OF THE
Prework Authorization - check activities to be conducted that require permit issuance or completion of a checklist or similar before work begins:	Doc#
Not applicable Doc# Working at Height	Confined Space
Energy Isolation (LOTO) Excavation/Trenching	Hot Work
Mechanical Lifting Ops Overhead & Buried Utilities	Other permit
Discuss following questions (for some review previous day's post activities). Check	if yes : Topics from Corp H&S to cover?
Incidents from day before to review? Lessons learned from the day	
Any corrective actions from yesterday? Will any work deviate from pl	
JSAs or procedures are available? Field teams to "dirty" JSAs, as	s needed? XAII equipment checked & OK?
Staff has appropriate PPE? Staff knows Emergency Plan	
Comments:	
Recognize the hazards (check all those that are discussed) (Examples are pro-	wided) and Assess the Ricks /I ow Medium High -
circle risk level) - Provide an overall assessment of hazards to be encountered to	oday and briefly list them under the hazard category.
Gravity (i.e., ladder, scaffold, trips) (I) M H) Motion (i.e., traffic, moving water)	(L M H) Mechanical (i.e., augers, motors) (LM H)
Electrical (i.e., utilities, lightning) (L M H) Pressure (i.e., gas cylinders, wells)	(L M H) Environment (i.e., hear cold, ice) (L(M)H)
Chemical (i.e., fuel, acid, paint) (L M H) Biological (i.e., ticks, poison ivy)	(L M H) Radiation (i.e., alpha, sun, laser) (L M H)
Sound (i.e., machinery, generators) M H) Personal (i.e. alone, night, not fit)	(L M H) Driving (i.e. car, ATV, boat, dozer) (L M H)

Continue TRACK Process on Page 2

Control to	E HEALTH & SAFETY MEETING	FORM - Pg. 2		
HASP, applicable JSAs, and other control pro	those methods to control the hazards that will occesses. Discuss and document any additional	be implemented for	the day): Re	view the
STOP WORK AUTHORITY (Must be add	dressed in every Tailgate meeting - (See state	mente below	•	
	Substitution	Isolation		
Engineering controls	Administrative controls	Monitoring		
General PPE Usage Personal Hygiene	Hearing Conservation	Respiratory I	Protection	
Emergency Action Plan (EAP)	Exposure Guidelines	Decon Proce		
JSA to be developed/used (specify)	Fall Protection	Work Zones/	Site Control	
і простивец (престу)	TIP conducted (specify job/JSA)	Traffic Contro		
		Other (special	<u>fv)</u>	
Signature	nd Could at a second			
	nd Certification Section - Site Sta	ff and Visitors	8	
	pany/Signature	Initial & Sign in Time	Initial & Sign out Time	and understand the
I'm Nillett 65	I TIME			HASD
Von Marchese &	51 000			
Date Int MIA	ou son In			
Lobert W. Page Jr MAD	A			
In buller CEO				
. 11 1200	The State of the S			
			Q = 1	
			7	
Important Information and Numbers	Visitor Name/Co - not involved in work			
All site staff should arrive fit for work. If not the	visitor Name/Co - not involved in work	I will STOP the job an uncertain about health	& safety or if anyon	ne identifies a
report to the supervisor any restrictions or concerns.		hazard or additional m project, job or task has	nitigation not recorde	ed in the site,
In the event of an injury, employees will call WorkCare at	In Out			
1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.		I will be alert to any cl the work site or hazard		
	In Out	hazard assessments.		
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project	Carlo Parker Branch	If it is necessary to ST TRACK; and then ame		
or Task Manager.	In Out	the HASP as needed.	ond the nazard asse	ssments or
In the event of a utility strike or other damage to property	in Out	I will not assist a sub-	contractor or other p	earty with their
of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the	In Out	work unless it is absolu after I have done TRA	utely necessary and	then only
Project or Task Manager.		controlled the hazard.		
Post Daily Activities Review - Re	eview at end of day or before next day's work (C	heck those applic	able and expla	ain:)
Lessons learned and best practices learned	ed today:			
Incidents that occurred today:				
Any Stop Work interventions today?		1	1	
Corrective/Preventive Actions needed for	future work:			
Any other H&S issues:				
Keep H&S 1 ^s	in all things	WorkCare - 1.800.	455.6155	



Document Control Number:TGM -TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily, Project Name: **Project Location:** Time: Signature/Title: Conducted by: **Client Contact:** Subcontractor companies: TRACKing the Tailgate Meeting Think through the Tasks (list the tasks for the day): 2 MECON Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other If there are none, write party activities that may pose hazards to Arcadis operations "None" here: If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit issuance or completion of a checklist or similar before work begins: Doc# Doc# Not applicable Doc# Working at Height **Confined Space** Energy Isolation (LOTO) Excavation/Trenching Hot Work Mechanical Lifting Ops Overhead & Buried Utilities Other permit Discuss following questions (for some review previous day's post activities). Check if yes: Topics from Corp H&S to cover? Incidents from day before to review? Lessons learned from the day before? Any Stop Work Interventions yesterday? Any corrective actions from yesterday? Will any work deviate from plan? If deviations, notify PM & client JSAs or procedures are available? Field teams to "dirty" JSAs, as needed? All equipment checked & OK? Staff has appropriate PPE? Staff knows Emergency Plan (EAP)? Staff knows gathering points? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of hazards to be encountered today and briefly list them under the hazard category. Gravity (i.e., ladder, scaffold, trips) (D M H) Motion (i.e., traffic, moving water) (L M H) Mechanical (i.e., augers, motors) ((L M H) STF Electrical (i.e., utilities, lightning) (L M H) Pressure (i.e., gas cylinders, wells) (L M H) Environment (i.e., heat, cold, ice) M H) WORK REST Chemical (i.e., fuel, acid, paint) (L M H) Biological (i.e., ticks, poison ivy) (L M H) Radiation (i.e., alpha, sun, laser) (LMH)

M H)

Sound (i.e., machinery, generators)

TRUCIL

(M H)

(L M H) Driving (i.e. car, ATV, boat, dozer)

Personal (i.e. alone, night, not fit)

TAII GATE	HEALTH & SAFETY MEETING F	OR	M - Pa 2		
Control the hazards (Check all and discuss the	nose methods to control the hazards that will t	oe imi	plemented for t	the day): Rev	iew the
HASP, applicable JSAs, and other control process. STOP WORK AUTHORITY (Must be address.) Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)		nal control processes.			
Signature ar	d Certification Section - Site Sta	ff a	nd Visitors		
	any/Signature		Initial & Sign in Time	Initial & Sign out Time	and understand the
Important Information and Numbers All site staff should arrive fit for work. If not, they should	Visitor Name/Co - not involved in work			ny time anyone is o	
report to the supervisor any restrictions or concerns. In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.	In Out	l v	oject, job or task ha	changes in personnerds not covered by	nel, conditions at
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager. In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out In Out	If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessments or the HASP as needed. I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.			
Post Daily Activities Review - Re	eview at end of day or before next day's work (plain:)
Lessons learned and best practices learn Incidents that occurred today: Any Stop Work interventions today? Corrective/Preventive Actions needed for Any other H&S issues:	future work:		AH.		
Keep H&S 1°	t in all things	1	WorkCare - 1.80	00.455.6155	

Document	Control	Number:	TGM -
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TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxx - dd/mm/year

roject Name: AP6		Project Location:	MPG	
ate: 3 4 21 Time: 0800 Co	inducted by: C ORTUGAD	Signature/Title:	ON 2 CA	
	ent Contact: Becoke Comm	Subcontractor com	ipanies:	
TRACKing the Tailgate				
hink through the Tasks (list the tas				
1 DTP - SAMPLING	3 Soil Smith	5		
2 NECON	44	6		
Other Hazardous Activities - Chec	k the box if there are any other Arcad	is, Client or other	If there are none, write	
party If yes, describe them here:	activities that may pose hazards to A	Arcadis operations	"None" here:	
_	*			
How will they be controlled?		U.E. I.		
Prework Authorization - check act issuance or completion of a checkling	tivities to be conducted that require pe	Doc#		Doc#
Not applicable	Doc# Working at Height	Con	fined Space	
Energy Isolation (LOTO)	Excavation/Trenching		Work	
Mechanical Lifting Ops	Overhead & Buried Util	ities Othe	er permit	
Discuss following questions	(for some review previous day's post activities).	Phack if yes . Topi	ics from Corp H&S to cover	2
Incidents from day before to revi				
			Stop Work Interventions ye	
Any corrective actions from yest			eviations, notify PM & client	C
JSAs or procedures are availabl			equipment checked & OK?	
Staff has appropriate PPE?	Staff knows Emergency	y Plan (EAP)?	f knows gathering points?	
Comments:				
Recognize the hazards (check all t	hose that are discussed) (Examples a	are provided) and Assess	the Risks (Low, Medium, H	igh -
circle risk level) - Provide an overall	assessment of hazards to be encoun	tered today and briefly list th	nem under the hazard cate	gory.
Gravity (i.e., ladder, scaffold, trips)	Motion (i.e., traffic, moving	water) (L M H)	chanical (i.e., augers, motors)	(С)м н
Electrical (i.e., utilities, lightning) (L M H) Pressure (i.e., gas cylinder	rs, wells) (L M H) 🔀 Env	vironment (i.e., heat, cold, ice) W 01212 / KES7	QW H
Chemical (i.e., fuel, acid, paint) (L M H) Biological (i.e., ticks, poiso	on ivy) (L M H) Rac	diation (i.e., alpha, sun, laser)	(L M H

TAILGATE	HEALTH & SAFETY MEETING	FORM - Pg. 2
Control the hazards (Check all and discuss the HASP, applicable JSAs, and other control proce	ose methods to control the hazards that will esses. Discuss and document any additiona	be implemented for the day): Review the all control processes.
STOP WORK AUTHORITY (Must be address Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	ments below) Isolation Monitoring Respiratory Protection Decon Procedures Work Zones/Site Control Traffic Control Other (specify)
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Important Information and Numbers All site staff should arrive fit for work. If not, they should	Visitor Name/Co - not involved in work	I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site,
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.	In Out	project, job or task hazard assessment. I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	In Out	If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessments or the HASP as needed.
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.
Post Daily Activities Review - Re Lessons learned and best practices learn Incidents that occurred today: Any Stop Work interventions today? Corrective/Preventive Actions needed for Any other H&S issues:	ed today:	(Check those applicable and explain:)

A DESTRUCTION



Document Control Number:TGM -TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily. Project Name: **Project Location:** Conducted by: Date: Signature/Title: 0800 C. ORTOM NO Client: **Client Contact:** Subcontractor companies: USMC 651 TRACKing the Tailgate Meeting Think through the Tasks (list the tasks for the day): DPI DECON SAMPLINE 501L Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other If there are none, write party activities that may pose hazards to Arcadis operations "None" here: If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit Doc# Doc# issuance or completion of a checklist or similar before work begins: Not applicable Working at Height Doc # Confined Space Energy Isolation (LOTO) Excavation/Trenching Hot Work Mechanical Lifting Ops Overhead & Buried Utilities Other permit Discuss following questions (for some review previous day's post activities). Check if yes: Topics from Corp H&S to cover? Incidents from day before to review? Lessons learned from the day before? Any Stop Work Interventions yesterday? Any corrective actions from yesterday? Will any work deviate from plan? If deviations, notify PM & client JSAs or procedures are available? Field teams to "dirty" JSAs, as needed? All equipment checked & OK? Staff has appropriate PPE? Staff knows Emergency Plan (EAP)? X Staff knows gathering points? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of hazards to be encountered today and briefly list them under the hazard category. Gravity (i.e., ladder, scaffold, trips) (() M H) Motion (i.e., traffic, moving water) Mechanical (i.e., augers, motors) (L M H) (L) M H) (L M H) Environment (i.e., heat cold ice) Electrical (i.e., utilities, lightning) Pressure (i.e., gas cylinders, wells) (L M H) WURK PEST (L M H) Radiation (i.e., alpha, sun, laser) Chemical (i.e., fuel, acid, paint) Biological (i.e., ticks, poison ivy) (L M H) (L M H) M H) Sound (i.e., machinery, generators) Personal (i.e. alone, night, not fit) (L M H) Driving (i.e. car, ATV, boat, dozer) (L M H)

Continue TRACK Process on Page 2

TAILGATE H	IEALTH & SAFETY MEETING FO	DR	M - Pg. 2		
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Client: MD6	Client Contact: Brook	Conny	Subcontractor cor	mpanies: GSI	
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Other Hazardous Activities			6		
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In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who	In Out	hazard or additional project, job or task h I will be alert to any the work site or haza	azard assessment. changes in personnards not covered by	el, conditions a	
will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.		If it is necessary to S	hazard assessments. If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessments or		
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In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the		work unless it is abs	solutely necessary a	and then only	



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TAILGATE	HEALTH & SAFETY MEETING F	ORM - Pg. 2
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In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will	In Out	I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments. If it is necessary to STOP THE JOB, I will perform
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TAILGATE	HEALTH & SAFETY MEETING FO	ORM - Pa 2
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Important Information and Numbers All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.	Visitor Name/Co - not involved in work	I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.
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Tailgate pg.2



Document Control Number:TGM -TGM + project number plus date as follows: xxxxxxxxx.xxxx.xxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily. **Project Location: Project Name:** Signature/Title: Conducted by: C-012 Touts 0500 Subcontractor companies: Client Contact: Brupice Comm 651 Client: TRACKing the Tailgate Meeting Think through the Tasks (list the tasks for the day): DPT SOIL NATER If there are none, write Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other "None" here: party activities that may pose hazards to Arcadis operations If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit Doc# Doc# issuance or completion of a checklist or similar before work begins: Confined Space Working at Height Not applicable Hot Work Excavation/Trenching Energy Isolation (LOTO) Other permit Noverhead & Buried Utilities Mechanical Lifting Ops Topics from Corp H&S to cover? Discuss following questions (for some review previous day's post activities). Check if yes ; Any Stop Work Interventions yesterday? Lessons learned from the day before? Incidents from day before to review? If deviations, notify PM & client Will any work deviate from plan? Any corrective actions from yesterday? All equipment checked & OK? Field teams to "dirty" JSAs, as needed? JSAs or procedures are available? Staff knows gathering points? √ Staff has appropriate PPE? Staff knows Emergency Plan (EAP)? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of hazards to be encountered today and briefly list them under the hazard category. Motion (i.e., traffic, moving water) Mechanical (i.e., augers, motors) Gravity (i.e., ladder, scaffold, trip (I) M H) (KM H) (L M H) Environment (i.e., heat, cold, lce) Pressure (i.e., gas cylinders, wells) (L M H) (L M H) Electrical (i.e., utilities, lightning) (L M H) Radiation (i.e., alpha, sun, laser) Biological (i.e., ticks, poison ivy) (L M H) (L M H) Chemical (i.e., fuel, acid, paint) Sound (i.e., machinery, generators) (M H) Personal (i.e. alone, night, not fit) (L M H) Driving (i.e. car, ATV, boat, dozer) (L)M H) TEVLIL

Continue TRACK Process on Page 2

TAILGATE	HEALTH & SAFETY MEETING F	ORM - Pg. 2
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Document Control Number:TGM -_ TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily. Project Name: Project Location: AP6 APG Time: Conducted by: Signature/Title: 0800 C- URTOLALIO Client Contact: Subcontractor companies: APB BROOKE COND TRACKing the Tailgate Meeting $\overline{\mathbf{T}}$ hink through the Tasks (list the tasks for the day): 5016 INDIER Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other If there are none, write party activities that may pose hazards to Arcadis operations "None" here: If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit issuance or completion of a checklist or similar before work begins: Doc# Doc# Not applicable Doc# Working at Height Confined Space Energy Isolation (LOTO) Excavation/Trenching Hot Work Mechanical Lifting Ops AOverhead & Buried Utilities Other permit Discuss following questions (for some review previous day's post activities). Check if yes: Topics from Corp H&S to cover? Incidents from day before to review? Lessons learned from the day before? Any Stop Work Interventions yesterday? Any corrective actions from yesterday? Will any work deviate from plan? f deviations, notify PM & client JSAs or procedures are available? Field teams to "dirty" JSAs, as needed? All equipment checked & OK? Staff has appropriate PPE? Staff knows Emergency Plan (EAP)? Staff knows gathering points? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of hazards to be encountered today and briefly list them under the hazard category. Gravity (i.e., ladder, scaffold, trips (L) M H) Motion (i.e., traffic, moving water) Mechanical (i.e., augers, motors) (L M H) Electrical (i.e., utilities, lightning) (L M H) Pressure (i.e., gas cylinders, wells) (L M H) Environment (i.e., heat, cold, ice) (LMH) Chemical (i.e., fuel, acid, paint) (L M H) Biological (i.e., ticks, poison ivy) (L M H) Radiation (i.e., alpha, sun, laser) (L M H) Sound (i.e., machinery, generators) (L) M H) Personal (i.e. alone, night, not fit) (L M H) Driving (i.e. car, ATV, boat, dozer) ontinue TRACK Process on Page 2

TAILGATE H	EALTH & SAFETY MEETING FO	RM - Pg. 2		
ontrol the hazards (Check all and discuss the	se methods to control the hazards that will be	implemented for the	e day): Revie	ew the
STOP WORK AUTHORITY (Must be address Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)			ures ite Control	
Signature and	d Certification Section - Site State	ff and Visitors		
Name/Compa		Initial & Sign in Time	Initial & Sign out Time	and understand the
Dan Marchese (HADIS DAN JUL			
Important Information and Numbers All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.	Visitor Name/Co - not involved in work	uncertain about he hazard or additional	any time anyone is alth & safety or if a al mitigation not rec hazard assessmer	nyone identifies a orded in the site,
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.	In Out		y changes in perso zards not covered hts.	
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	In Out		STOP THE JOB, amend the hazard ded.	
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify	In Out	work unless it is a	subcontractor or o	y and then only
the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	controlled the haz	TRACK and I have zard.	thoroughly
Post Daily Activities Review - Re Lessons learned and best practices learn Incidents that occurred today:	The state of the s	(Check those ap	plicable and	explain:)
Any Stop Work interventions today?			_	
Corrective/Preventive Actions needed for	future work:			
Any other H&S issues:				



Document Control Number:TGM -

TGM + project number plus date as follows: xxxxxxxxxxxxxxxxx - dd/mm/year

TAIL GATE HEALTH & CAFETY	MEETING
TAILGATE HEALTH & SAFETY This form documents the tailgate meeting conducted in accordance with the same state of the sa	MEETING FORM
This form documents the tailgate meeting conducted in accordance with the P site during the day are required to attend this meeting and to ac Project Name:	roject HASP. Personnel who perform work operations on-
Project Name:	Project Location
Date: . Time: Conduct II	APE
3/11/21 OFOO SINGULED BY. C- ORTOLLO	Signature/Title: ORAR CA
BROOKE CONTACT:	Subcontractor companies: 65 /
TRACKing the Tailgate Meeting	
Think through the Tasks (list the tasks for the day):	
1 DPT 3	
2 SIIL/NOTER SMINLIUE 4	5
	66
Other Hazardous Activities - Check the box if there are any other Arcadis, Cli	ent or other If there are none, write
party activities that may pose hazards to Arcadi	s operations "None" here:
If yes, describe them here:	
How will they be controlled?	
Prework Authorization, shocked in the	
Prework Authorization - check activities to be conducted that require permit issuance or completion of a checklist or similar before work begins:	Doc#
Not applicable Doc# Working at Height	Doc#
Engage last to the control of the co	Confined Space
	Hot Work
Mechanical Lifting Ops Overhead & Buried Utilities	Other permit
Discuss following questions (for some review previous day's post activities). Check	
I maid and the second s	- I was to cover!
	before? Any Stop Work Interventions yesterday?
Any corrective actions from yesterday? Will any work deviate from pl	an? If deviations, notify PM & client
JSAs or procedures are available? Field teams to "dirty" JSAs, as	at the state of the state
Do. "	Z Control of City
Staff has appropriate PPE? Staff knows Emergency Plan	(EAP)? Staff knows gathering points?
Comments:	STUDIO CONTRACTOR
Recognize the hazards (check all those that are discuss to (5)	NAME OF TAXABLE PARTY.
Recognize the hazards (check all those that are discussed) (Examples are procircle risk level) - Provide an overall assessment of hazards to be encountered to	vided) and Assess the Risks (Low, Medium, High -
Gravity (i.e., ladder, scaffold, trips)	
Gravity (i.e., ladder, scaffold, trips) (L)M H) Motion (i.e., traffic, moving water)	(L M H) Mechanical (i.e., augers, motors) (L M H)
	DP7
Electrical (i.e., utilities, lightning) (L M H) Pressure (i.e., gas cylinders, wells)	(L M H) Environment (i.e., heat, cold, ice) (LM H)
Chemical (i.e., fuel, acid, paint) (L M H) Biological (i.e., ticks, poison ivv)	WORK REET
Chemical (i.e., fuel, acid, paint) (L M H) Biological (i.e., ticks, poison ivy)	(L M H) Radiation (i.e., alpha, sun, laser) (L M H)
Sound (i.e., machinery, generators) (LM H) Personal (i.e. alone night not fit)	
Sound (i.e., machinery, generators) (LM H) Personal (i.e. alone, night, not fit)	(L M H) Driving (i.e. car, ATV, boat, dozer) (LM H)
	TIRVOK
Continue TRACK Process on Page 2	William Control

TAILGATE H	EALTH & SAFETY MEETING FO	RM - Pg. 2
Control the hazards (Check all and discuss thos HASP, applicable JSAs, and other control proces	se methods to control the hazards that will be in	mplemented for the day): Review the
STOP WORK AUTHORITY (Must be address Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)		CONTRACTOR
Signature and	d Certification Section - Site Staff	and Visitors
Name/Compa		Initial & Sign in Time Initial & Sign out and understand the
Don Marcher 65 Tim Viblett 65 Ribert Page CARA	ARUNOIS DON Jule NAB REST	
Important Information and Numbers All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.	Visitor Name/Co - not involved in work	I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site,
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager. In the event of a utility strike or other damage to property	In Out In Out	I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments. If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessments or the HASP as needed.
of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	I will not assist a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done TRACK and I have thoroughly controlled the hazard.
Lessons learned and best practices learn Incidents that occurred today: Any Stop Work interventions today? Corrective/Preventive Actions needed for Any other H&S issues:		Check those applicable and explain:)
<u>K</u> eep H&S 1	st in all things	WorkCare - 1.800.455.6155



Document Control Number:TGM - _ TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily, Project Name: **Project Location:** Time: Signature/Title: 3/16/21 Conducted by: C ORTOLAND Client: Subcontractor companies: Client Contact: APA Brook Cours 651 TRACKing the Tailgate Meeting $\underline{\mathbf{T}}$ hink through the Tasks (list the tasks for the day): MATER SAMPLINE. Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other If there are none, write party activities that may pose hazards to Arcadis operations "None" here: If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit issuance or completion of a checklist or similar before work begins: Doc# Not applicable Doc# Doc# Working at Height Energy Isolation (LOTO) Confined Space Excavation/Trenching Mechanical Lifting Ops Hot Work Overhead & Buried Utilities Other permit Discuss following questions (for some review previous day's post activities). Check if yes: Incidents from day before to review? Topics from Corp H&S to cover? essons learned from the day before? Any corrective actions from yesterday? Any Stop Work Interventions yesterday? Will any work deviate from plan? JSAs or procedures are available? If deviations, notify PM & client Field teams to "dirty" JSAs, as needed? All equipment checked & OK? Staff has appropriate PPE? Staff knows Emergency Plan (EAP)? Staff knows gathering points? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of hazards to be encountered today and briefly list them under the hazard category. Gravity (i.e., ladder, scaffold, trips) (M H) Motion (i.e., traffic, moving water) (L M H) Mechanical (i.e., augers, motors) (M H) Electrical (i.e., utilities, lightning) Pressure (i.e., gas cylinders, wells) (L M H)

Continue TRACK Process on Page 2

(LMH)

Chemical (i.e., fuel, acid, paint)

Sound (i.e., machinery, generators)

Environment (i.e., heat, cold, ice) WIRL

Radiation (i.e., alpha, sun, laser)

REST

(P M H)

(LMH)

Personal (i.e. alone, night, not fit) (L M H) Driving (i.e. car, ATV, boat, dozer)

Biological (i.e., ticks, poison ivy)

TAILGATE H	EALTH & SAFETY MEETING FO	RM - Pg. 2		
Control the hazards (Check all and discuss these	e methods to control the hazards that will be	implemented for the	ne day): Revi	ew the
HASP, applicable JSAs, and other control proces STOP WORK AUTHORITY (Must be addres Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	ses. Discuss and document any additional of sed in every Tailgate meeting - (See stateme Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	nts below) Isolation Monitoring Respiratory Process Work Zones/S Traffic Control Other (specification)	lures Site Control	
Signature and	Certification Section - Site Staf	f and Visitors		
Robert Page Jr CA		Initial & Sign in Time	Initial & Sign out Time	and understand the
Don Marchen as Tim Niblet 6 Dare youth May	ST Sollo			
Important Information and Numbers All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.	Visitor Name/Co - not involved in work	I will STOP the job a uncertain about heal	th & safety or if any	one lde-tip
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	In Out	hazard or additional project, job or task h I will be alert to any the work site or hazar hazard assessments If it is necessary to	mitigation not record azard assessment. changes in personnards not covered by the	ded in the site, el, conditions at the original
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	the HASP as neede I will not assist a s work unless it is ab	mend the hazard assid.	r party with their
Post Daily Activities Review - R Lessons learned and best practices learn Incidents that occurred today: Any Stop Work interventions today? Corrective/Preventive Actions needed fo Any other H&S issues:	Leview at end of day or before next day's work ned today:			
	st in all things	WorkCare -	1.800.455.6155	



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roject Name: AP6		Project Loca	ation: AP6
ate: 3/17/21 Time: 0800 C	conducted by: C. OILTOURS	Signature/Tit	tle: cet ROA
lient: AP6 C	CONTOURS BUCK CONVAY	Subcontract	tor companies: 651
RACKing the Tailgat			
hink through the Tasks (list the ta	sks for the day);		7
1 007	3		5
2 Soul water smell	1112 4		6
Other Hazardous Activities - Che part If yes, describe them here: How will they be controlled?	eck the box if there are any other Arca ty activities that may pose hazards to	dis, Client or other Arcadis operations	If there are none, write "None" here:
Prework Authorization - check ac ssuance or completion of a checkl	ctivities to be conducted that require plist or similar before work begins:	permit Doc#	Doc#
Not applicable	Doc # Working at Height	Li mulli	Confined Space
Energy Isolation (LOTO)	Excavation/Trenching		Hot Work
Mechanical Lifting Ops	Overhead & Buried Ut	tilities	Other permit
Discuss following questions	S (for some review previous day's post activities).	Chack if yes	Topics from Corp H&S to cover?
Incidents from day before to rev	A CONTRACTOR OF STREET	CANAL CANAL STREET	Any Stop Work Interventions yesterday
Any corrective actions from yes	terday? Will any work deviate	from plan?	If deviations, notify PM & client
JSAs or procedures are available			All equipment checked & OK?
Staff has appropriate PPE?	Staff knows Emergence		Staff knows gathering points?
Comments:		y rian (En.).	Otali Mioris gatiering points:
	hose that are discussed) (Examples	are provided) and As	ssess the Risks (<u>L</u> ow, <u>M</u> edium, <u>High</u> -
cle risk level) - Provide an overall	assessment of hazards to be encour	itered today and briefl	ly list them under the hazard category.
Gravity (i.e., ladder, scaffold, trips)	^		Mechanical (i.e., augers, motors) (L)M
Electrical (i.e., utilities, lightning) (I	L M H) Pressure (i.e., gas cylinde	ers, wells) (L M H)	Environment (i.e., heat, cold, ice) (L M
Chemical (i.e., fuel, acid, paint) (L	L M H) Biological (i.e., ticks, poise	on ivy) (L M H)	Radiation (i.e., alpha, sun, laser) (L M
Sound (i.e., machinery, generators)	M H) Personal (i.e. alone, night,	, not fit) (L M H)	Driving (i.e. car, ATV, boat, dozer)

TAILGATE I	HEALTH & SAFETY MEETING FO	RM - Pg. 2		
Control the hazards (Check all and discuss the HASP, applicable JSAs, and other control proce	ose methods to control the hazards that will be usses. Discuss and document any additional co	implemented for to ontrol processes.	he day): Revi	ew the
STOP WORK AUTHORITY (Must be addre Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	Ssed in every Tailgate meeting - (See stateme Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	Isolation Isolation Monitoring Respiratory Protection Decon Procedures Work Zones/Site Control Traffic Control Other (specify)		
Signature an	d Certification Section - Site Staf	f and Visitors	3	тпачетево
Name/Compa Ficky b whiten USA: Downarchese GSI Ton Niblet GSE Robert Page Jr CARI Pare your Areas	7	Initial & Sign in Time	Initial & Sign out Time	and understand the
Important Information and Numbers All site staff should arrive fit for work. If not, they should	Visitor Name/Co - not involved in work	I will STOP the job uncertain about hea hazard or additional	Ith & safety or if any mitigation not recor	one identifies a rded in the site,
report to the supervisor any restrictions or concerns. In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.	In Out	project, job or task hazard assessment. I will be alert to any changes in personnel, condition the work site or hazards not covered by the original hazard assessments.		
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	77	If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessmen the HASP as needed.		
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify	In Out	work unless it is ab	subcontractor or oth solutely necessary	and then only
the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	controlled the haza	RACK and I have th	ioroughly
Lessons learned and best practices learn Incidents that occurred today: Any Stop Work interventions today?		Check those app	licable and ex	cplain:)
Corrective/Preventive Actions needed for	TUILUTE WORK:		ń.	
Any other H&S issues:			1	
Keep H&S 1 ^s	it in all things	WorkCare - 1.8	300.455.6155	(

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T.	TAIL GATE UE	xxx.xxxx.xxxx - dd/mm	n/year	IO FORM	
This form documents the tailg	ate meeting conducted	LTH & SAFETY	MEETIN	IG FORM Personnel who perform work openeir attendance, at least daily.	anti-
Project Name:	day are required to atte	in accordance with the Pro nd this meeting and to ack	oject HASP. nowledge th	Personnel who perform work openeir attendance, at least daily.	rations on-
Date:			Project Lo	cation:	
3/18/21 0500	Conducted by:		Signature/	AP6	
Client: APG	Client Cont	- DIRTOLALD	Signature	Title: CHROA	
TRACKing the Tail	mont contact: 13	12001 CONNAND	Subcontra	ctor companies: 651 / 5 of	7 1)16
Think a	2 MEGIINU	-	No.		
Think through the Tasks (list	the tasks for the day):		37		
1371	3	DPT SOIL/LATE	GL SMA	€5	
2_ AIR KNIFE	4			6	
Other Hazardous Activities	Chook the having		247		The state of the s
Other Hazardous Activities	party activities that ma	are any other Arcadis, Clie ay pose hazards to Arcadis	ent or other	If there are none, write	
If yes, describe them he	ere:	y pood ridzaids to Arcadis	operations	"None" here:	
How will they be controll	ed?	1	7		
	_		,		
Prework Authorization - che issuance or completion of a c	eck activities to be cond	ucted that require permit	Dec #		
Not applicable	similar befor	e work begins:	Doc#	<u> </u>	Doc#
Energy Isolation (LOTO)		orking at Height		Confined Space	4.
	Ex	cavation/Trenching		Hot Work	
Mechanical Lifting Ops	>ov	erhead & Buried Utilities		Other permit	
Discuss following que	stions #	ous day's post activities). Check i	- 19		
Incidents from day before	As a second seco			Topics from Corp H&S to cove	er?
Incidents from day before		ssons learned from the day	before?	Any Stop Work Interventions	yesterday?
Any corrective actions fro	m yesterday? Wi	Il any work deviate from pla	an?	If deviations, notify PM & clien	
JSAs or procedures are a		eld teams to "dirty" JSAs, as			
Staff has appropriate PPF	. =			All equipment checked & OK?	
		aff knows Emergency Plan	(EAP)?	Staff knows gathering points?	
Comments:	18	P.			
Recognize the hazards (che	ck all those that are disc	cussed) (Examples are pro-	vided) and	Assess the Risks (<u>L</u> ow, <u>M</u> edium, <u>I</u>	
onoic hait level) - Flovide all	overall assessment of ha	azards to be encountered to	oday and bri	efly list them under the hazard cat	High -
Gravity (i.e., ladder, scaffold, to		otion (i.e., traffic, moving water)	(L M H)	Mechanical (i.e., augers, motors)	(L) M H)
57F			13	PPT (AIR KUIF	CILM H)
Electrical (i.e., utilities, lightnin	ng) (LMH) Pr	essure (i.e., gas cylinders, wells)	(L M H)	Environment (i.e., heat, cold, ice)	(L)M H
	6		4.1	RAIN	(E)
Chemical (i.e., fuel, acid, pain	t) (L M H) Bid	ological (i.e., ticks, poison ivy)	(L M H)	Radiation (i.e., alpha, sun, laser)	(L M H
[7] Sound to	ators) (M H)		7		
Sound (i.e., machinery, general)	Itors) (DM H) Pe	ersonal (i.e. alone, night, not fit)	(L M H)	Driving (i.e. car, ATV, boat, dozer)	(I) M H
7. 1510				TRUCK	
Continue TRAC	K Process of	Page 2			
- STITLING TITAL				4	

	HEALTH & SAFETY MEETING		
ontrol the hazards (Check all and discuss that ASP, applicable JSAs, and other control pro	hose methods to control the hazards that will besses. Discuss and document any addition	be implemented for the day). Poview	w the
STOP WORK AUTHORITY (Must be add Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	ressed in every Tailgate meeting - (See state Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	ments below) Solation Monitoring Respiratory Protection Decon Procedures Work Zones/Site Control Traffic Control Other (specify)	
Signature ar	nd Certification Section - Site S	aff and Visitors	
Dale Lynch	pany/Signature	Initial & Sign in Indial & Sign out Time Time	and understand t
James Andrews &	off dig / Fr		-
Paper lage To la	011 09 10 10	1	15
Deck Line	ENAB ?	*	
To I Fult	ENAB)		
The Divisy 6	1		
De 3	3/ 1/	-	
Important Information and Numbers	Visitor Name/Co - not involved in work	I will STOP the job any time anyone is co uncertain about health & safety or if anyon hazard or additional mitigation not record	ne identifies
report to the supervisor any restrictions or concerns. In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager.	in Out	project, job or task hazard assessment. I will be alert to any changes in personne the work site or hazards not covered by the hazard assessments.	l, conditions ne original
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	In Out	If it is necessary to STOP THE JOB, I will TRACK; and then amend the hazard asso the HASP as needed.	perform essments or
In the event of a utility strike or other damage to property of a client or 3rd party, employees will Immediately notify	In + Out	I will not assist a subcontractor or other work unless it is absolutely necessary and	d then only
the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	after I have done TRACK and I have thore controlled the hazard.	oughly
Post Daily Activities Review - R	Review at end of day or before next day's work	(Check those applicable and exp	lain:)
Lessons learned and best practices learn	ned today:		
Incidents that occurred today:	-	3	
Any Stop Work interventions today?	i l		-
Corrective/Preventive Actions needed for	or future work:	× 3 -	170
Any other H&S issues:	- The	97	



Document Control Number:TGM -TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily. **Project Location:** Project Name: 1906 Signature/Title: Conducted by: Time: Subcontractor companies: **Client Contact:** Client: BROOK CONUM TRACKing the Tailgate Meeting Think through the Tasks (list the tasks for the day): DAT 501 L WATER SMINE If there are none, write Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other "None" here: party activities that may pose hazards to Arcadis operations If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit Doc# Doc# issuance or completion of a checklist or similar before work begins: Confined Space Not applicable Doc# Working at Height Hot Work Energy Isolation (LOTO) Excavation/Trenching Other permit Mechanical Lifting Ops X Overhead & Buried Utilities Topics from Corp H&S to cover? Discuss following questions (for some review previous day's post activities). Check if yes: Any Stop Work Interventions yesterday? Incidents from day before to review? Lessons learned from the day before? Any corrective actions from yesterday? Will any work deviate from plan? If deviations, notify PM & client X All equipment checked & OK? JSAs or procedures are available? Field teams to "dirty" JSAs, as needed? Staff has appropriate PPE? Staff knows gathering points? Staff knows Emergency Plan (EAP)? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of hazards to be encountered today and briefly list them under the hazard category. (L M H) Motion (i.e., traffic, moving water) (L M H) Mechanical (i.e., augers, motors) X Gravity (i.e., ladder, scaffold, trips) (LM H) (L M H) Environment (i.e., heat, cold, le) Electrical (i.e., utilities, lightning) (L M H) (LMH) Radiation (i.e., alpha, sun, laser) Chemical (i.e., fuel, acid, paint) Biological (i.e., ticks, poison ivy) (L M H) Sound (i.e., machinery, generators) Personal (i.e. alone, night, not fit) (LMH) Driving (i.e. car, ATV, boat, dozer) (DM H) ontinue TRACK Process on Page 2

TAILGATE H	HEALTH & SAFETY MEETING FO	RM - Pg. 2		
ontrol the hazards (Check all and discuss the ASP, applicable JSAs, and other control proces	se methods to control the hazards that will be	implemented for th	ne day): Revie	ew the
STOP WORK AUTHORITY (Must be address Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	ssed in every Tailgate meeting - (See statement Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	Isolation Monitoring Respiratory P Decon Proced Work Zones/S Traffic Control Other (specif	lures Site Control	
Signature and	d Certification Section - Site State	f and Visitors		
Name/Compa	iny/Signature	Initial & Sign in Time	Initial & Sign out Time	and understand the
Jan Niblett G	Visitor Name/Co - not involved in work	I will STOP the job	any time anyone is	concerned or
All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.	In Out	uncertain about hea hazard or additional project, job or task l	Ith & safety or if any mitigation not reco nazard assessment.	yone identifies a rded in the site,
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project or Task Manager.	In Out	the work site or haz hazard assessment If it is necessary to TRACK; and then a the HASP as neede	ards not covered by s. STOP THE JOB, I valued the hazard a	y the original will perform ssessments or
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	work unless it is ab	solutely necessary a RACK and I have the	and then only
Post Daily Activities Review - R Lessons learned and best practices learn Incidents that occurred today: Any Stop Work interventions today? Corrective/Preventive Actions needed for Any other H&S issues:		Check those app	licable and ex	xplain:)
Koon H&S 1	st in all things	WorkCare - 1.8	300.455.6155	

PARCADIS Design & Consultancy for natural and buffs assets

T	AILGAT	E HEALTH & SAF	ETY MEETI	NG FORM	CARDON I
This form documents the tailgate	meeting co	nducted in accordance with	h the Project HASP	P. Personnel who perform work ope their attendance, at least daily.	rations on-
Project Name: APG PF		d to ducing an incoming an	Project Lo	ocation:	
Date: 2/15/21 Time: 01/8		by: Brian 16L	Signature	Actor companies: Dilling a	51
Client: USACE	Client Con		Subcontra	UN IRATE Dilling to	ompany
TRACKing the Tailga	ate Mee	ting			/
Think through the Tasks (list the	tasks for the	A .A			
1 Villing	2 1	3 GWS		5	
2 (Soil 5	ampling	4 VXO 100	ating	6	
Other Hazardous Activities - C					
If yes, describe them here	100	s that may pose hazards to locuting, mov	/	around on potent	
How will they be controlled?	hu Za	rdows ground		0 1	,
Company of the second s		- 0	0/0 (antractors.	
Prework Authorization - check issuance or completion of a check			Doc#		Doc#
Not applicable	Doc#	Working at Height		Confined Space	
Energy Isolation (LOTO)		Excavation/Trenching		Hot Work	
Mechanical Lifting Ops		Overhead & Buried U	tilities	Other permit	
Discuss following question	NS (for some re	view previous day's post activities).	Check If yes :	Topics from Corp H&S to cov	er?
Incidents from day before to		Lessons learned from		Any Stop Work Interventions	yesterday?
Any corrective actions from y		Will any work deviate		If deviations, notify PM & clier	nt
JSAs or procedures are avail		Field teams to "dirty"		All equipment checked & OK?	
4	able	Staff knows Emergence	and the Landson	Staff knows gathering points?	
Staff has appropriate PPE?		Stall Kilows Efficigent	cy (laif (LAI))	/	
Comments:			1		
Recognize the hazards (check a	II those that	are discussed) (Examples	are provided) and	Assess the Risks (Low, Medium, L	<u>l</u> igh -
			^^	iefly list them under the hazard cate	gory.
Gravity (i.e., ladder, scaffold, trips)	and fall	Motion (i.e., raffic, moving	(L(W)11)	Drill Rig	(L M II)
Electrical (i.e., utilities, lightning)	(L M <i>(</i> b)	Pressure (i.e., gas cylinde	ers, wells) (L M H)	Environment (i.e., hear, sold, ice) Cold Weather	(L M 🐴
Chemical (i.e., fuel, acid, paint)	(L M H)	Biological (i.e., lock, pois	on My) (L(N) H)	Radiation (i.e., alpha, sun, laser)	(L M H)
Sound (i.e. machinery, penerators)	(L/g H)	Personal (I.e. alone, night	, not fit) (LMH)	Driving (I.C. ATV, boat, dozer) Lrucks	(L M (P)
Continue TRACK	Proces	s on Page 2			

TAILGATE	HEALTH & SAFETY MEETING F	ORM - Pg. 2		
	nose methods to control the hazards that will be sesses. Discuss and document any additional			
STOP WORK AUTHORITY (Must be addr Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JSA to be developed/used (specify)	Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	ents below) Isolation Monitoring Respiratory Protection Decon Procedures Work Zones/Site Control Traffic Control Other (specify)		
Signature ar	nd Certification Section - Site Star	ff and Visitors		
Name/Comp	eany/Signature	Initial & Sign in Time Initial & Sign out and understand the		
Brian Weh/A	andes 1 soll	De otos		
herin humany 16-	in the first	# 1730		
AliBer-nobk Miles 651	by Ming	161 0771		
JUSTIM COFFEY ARONDIS	940	946 0730		
Important Information and Numbers	Visitor Name/Co - not involved in work	I will STOP the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a		
All site staff should arrive fit for work. If not, they should	Value to the first of the second seco	uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.		
report to the supervisor any restrictions or concerns. In the event of an injury, employees will call WorkCare at 1,800,455,6155 and then notify the field supervisor who	In Out	I will be alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.		
will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify the Project	In Out	If it is necessary to STOP THE JOB, I will perform TRACK; and then amend the hazard assessments or		
or Task Manager. In Out In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify		the HASP as needed. I will not essist a subcontractor or other party with their work unless it is absolutely necessary and then only		
the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	after I have done TRACK and I have thoroughly controlled the hazard.		
Post Daily Activities Review - Re	eview at end of day or before next day's work (Check those applicable and explain:)		
Lessons learned and best practices learn	ed today:			
Incidents that occurred today:				
Any Stop Work interventions today?	20.2740			
Corrective/Preventive Actions needed for	future work:			
Any other H&S issues:	A CONTRACTOR OF THE PROPERTY O			
Voon HOC 15	it in all things	WorkCare - 1.800.455.6155		

PARCADIS Design & Consultancy for natural and built assets

Document Control Number:TGM -TGM + project number plus date as follows: xxxxxxxxxxxxxxxxxx - dd/mm/year TAILGATE HEALTH & SAFETY MEETING FORM This form documents the tailgate meeting conducted in accordance with the Project HASP. Personnel who perform work operations onsite during the day are required to attend this meeting and to acknowledge their attendance, at least daily. Project Location: Project Name: Conducted by: ENVR Scientist Date: Diram **Client Contact:** US ARMY TRACKing the Tailgate Meeting Think through the Tasks (list the tasks for the day): Hard Ayang 2:1/ing If there are none, write Other Hazardous Activities - Check the box if there are any other Arcadis, Client or other "None" here: party activities that may pose hazards to Arcadis operations If yes, describe them here: How will they be controlled? Prework Authorization - check activities to be conducted that require permit Doc# Doc# issuance or completion of a checklist or similar before work begins: Confined Space Working at Height Not applicable Doc# Hot Work Excavation/Trenching Energy Isolation (LOTO) Other permit Overhead & Buried Utilities Mechanical Lifting Ops Topics from Corp H&S to cover? Discuss following questions (for some review previous day's post activities). Check if yes: Lessons learned from the day before? Any Stop Work Interventions yesterday? Incidents from day before to review? Any corrective actions from yesterday? Will any work deviate from plan? If deviations, notify PM & client All equipment checked & OK? Fjeld teams to "dirty" JSAs, as needed? JSAs or procedures are available? Staff knows gathering points? Staff knows Emergency Plan (EAP)? Staff has appropriate PPE? Comments: Recognize the hazards (check all those that are discussed) (Examples are provided) and Assess the Risks (Low, Medium, High circle risk level) - Provide an overall assessment of bazards to be encountered today and briefly list them under the hazard category. (L M B) Mechanical (i.e., augers motors) Motion (i.e., traffic, moving water) Gravity (i.e., ladder, scaffold, trips) (L M B) Environment (i.e., heat, cold, joe) (LMH) Pressure (i.e., gas cylinders, wells) Electrical (I.e. tili ties Me Manical Radiation (i.e., alpha, sun, laser) (LMH) (L M H) Biological (i.e., tick Chemical (i.e., fuel, acid, paint) Weapons hemica (L M H) Driving (I.e. car ATV, boat, dozer) Sound (i.e., machinery, generators) continue TRACK Process on Page 2

TAILGATE	HEALTH & SAFETY MEETING	FOR	M - Pg. 2		
Control the hazards (Check all and discuss the HASP, applicable JSAs, and other control pro	those methods to control the hazards that will	be imp	lemented for the	ne day): Revi	ew the
	iressed in every Tailgate meeting - (See state Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection TIP conducted (specify job/JSA)	ments		ures ite Control	
Signature a	nd Certification Section - Site St	aff a	nd Visitors		
	pany/Signature		initial & Sign In Time	Initial & Sign out Time	and understand the
Brian Web	Accadis Pol		5700 BU		HASD
Ai. Bernnokanisher /	CG1 / /12	1	7700 ADS		
Kern Pumphy 6	SI Som Prome		07000		
A / A / /	ARA adeonlli		0700 AH		
	Rx 1218		0700 Um		
Important Information and Numbers	Visitor Name/Co - not involved in work		(4 마이지 :) 이번 점하다 경이 되었다. (1 1 1 1 1 1 1 1 1 1	any time anyone is ith & safety or if any	
All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.		h	azard or additional	mitigation not reco	rded in the site,
in the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who	in Out	Ü		changes in person ards not covered by	
will then notify the Project or Task Manager. In the event of a motor vehicle accident, employees will	In Out	_	it is necessary to	STOP THE JOB, I women the hazard a	
notify the field supervisor who will then notify the Project				A .	
notify the field supervisor who will then notify the Project or Task Manager. In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify	In Out	_ t	he HASP as neede will not assist a s vork unless it is ab	ubcontractor or oth solutely necessary	and then only
or Task Manager. In the event of a utility strike or other damage to property	In Out	_	he HASP as neede will not assist a s vork unless it is ab	subcontractor or oth solutely necessary RACK and I have th	and then only
or Task Manager. In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager.	In Out	— ti	he HASP as neede will not assist a s vork unless it is ab- ofter I have done To controlled the haza	subcontractor or oth solutely necessary RACK and I have the	and then only noroughly
or Task Manager. In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the	In Out	— ti	he HASP as neede will not assist a s work unless it is ab- ofter I have done The controlled the haza	subcontractor or oth solutely necessary RACK and I have the	and then only noroughly
or Task Manager. In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager. Post Daily Activities Review - Re	In Out	— ti	he HASP as neede will not assist a s work unless it is ab- ofter I have done The controlled the haza	subcontractor or oth solutely necessary RACK and I have the	and then only noroughly
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or Task Manager. In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify the Project or Task Manager. Post Daily Activities Review - Re Lessons learned and best practices learned incidents that occurred today:	In Out eview at end of day or before next day's work ed today:	— ti	he HASP as neede will not assist a s work unless it is ab- ofter I have done The controlled the haza	subcontractor or oth solutely necessary RACK and I have the	and then only noroughly



	Aberdeen Proving Ground Preliminary Assessment/Site Inspection
Project Number:	02118216.3005.8AC00
Form Completion Date:	Form Expiration Date: 3/12/2 (indeed ≤15 days when work is ongoing. (15 business days post form combletion date)
Pre-Field Work	그 이 집은 그리다면 하는 아이를 가게 되었습니다. 이 이렇게 되었다고 그렇게 하는 것이 되었다.
	notified 48-72 hours in advance of work? #:
Ticket Expiration Date	3 4 Z \ (Review State Requirements)
Utility companies notified dur	ring the One Call process See attached ticket
INECA MAD	UXO ((ARA)
MISS UHILLY	
ist any other utilities requirin	ng notification: None
Private Locator Contacted	(Yes) No
하다는 얼마나면서는 그런데 하는 마음이를 하는데 하다 하다 하다.	contractor assignments, areas, required clearance equipment, depth of clearance
eeded, types of utilities. When p	possible re-clear 811 markings to confirm utility locations.
ment provided utility maps or	r "as built" drawings showing utilities?
ield Work - This must be so	moleted on cite, bustoff the bost and in the second of the
in identifying utili	mpleted on site, by staff who have a minimum of one year of field experiencities. Review Check list with PM or designee prior to beginning intrusive wor
echanized intrusive work	in utility Tolerance Zone (<30-in.) requires pre-approval by Corporate I
	요 그리다 이
	Os or Excavation Locations applicable to this clearance checklist:
-3 CF# A 00 1	Of the same to the state of the
SEC APG Frace	for Well IDS I associated ticket #'S
TILL APG Track	1 40% Dell 198 4 255000000 10000 #1
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Reliable Lines of Evidence One Call/"811" (Reliable a Utility Markings Present: Client Provided Maps/Dray Client Clearance Na Interview(s): Na Did person(s) interviewed i Additional Comments: Site Inspection (Complete Public Records / Maps / As Private Locator: (Name a Ground Penetrating Radar(Radiofrequency (RF Loc) Electromagnetic (EM) Metal Detector Soft Dig Methods Fermination Depth ft Otholing / Vacuum Extraction ir knife Hydro knife	Required Prior to Starting any Subsurface Intrusive Work as a line of evidence when working in public right of way or easement) Pant Pin flags/stakes Other None Maps/Drawings requested but not provide ame(s)/Affiliation(s) Ame(s)/Affiliation(s) Ame(s)/Affiliation(s) Ame(s)/Affiliation(s) Ame(s)/Affiliation(s) Ame(s)/Affiliation(s) INFAMMAP Indicate depths of any utilities in the subsurface? Did not know or refused to answer Page 2 & Photo Document Marked Utilities & Utility Structures) Builts Ame Company) Tips for Successful Utility Location (H&S Standard Section 5.6): 1. Don't forget to look up (mark above grade utilities if warranted) 2. Be on-site with Private Utility Locators 3. Ask Private Locators to "confirm" other's markings 4. Select alternate/backup locations during clearance process 5. Mark out all known utilities. Leave nothing to question 6. No nammering - no pickaxes - no digging bars - no shortcutting 7. No excessive turning or downward force of hand augers/shovels 8. Utilities may run in or directly under asphalt/concrete 9. Clearing, grubbing, and heavy equipment may damage shallow utilities
Reliable Lines of Evidence One Call/"811" (Reliable a Utility Markings Present: Client Provided Maps/Dray Client Clearance Na Interview(s): Na Did person(s) interviewed i Get depths provided: Additional Comments: Site Inspection (Complete Public Records / Maps / As Private Locator: (Name a Ground Penetrating Radar(Radiofrequency (RF Loc) Electromagnetic (EM) Metal Detector Soft Dig Methods fermination Depth ft otholing / Vacuum Extraction	Required Prior to Starting any Subsurface Intrusive Work as a line of evidence when working in public right of way or easement) Pant Pin flags/stakes Other None Wings OR Maps/Drawings requested but not provide ame(s)/Affiliation(s) ame(s)/Affiliation(s) Suff DIG INFRAME John Company Page 2 & Photo Document Marked Utilities & Utility Structures) Builts Tips for Successful Utility Location (H&S Standard Section 5.6): 1. Don't forget to look up (mark above grade utilities if warranted) 2. Be on-site with Private Utility Locators 3. Ask Private Locators to "confirm" other's markings 4. Select alternate/backup locations during clearance process 5. Mark out all known utilities. Leave nothing to question 6. No hammering - no pickaxes - no digging bars - no shortcutting 7. No excessive turning or downward force of hand augers/shovele









During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): Site Inspection **Utility Color Codes** Present Natural gas line present (evidence of a gas meter)? Yellow Yes No Feeder Lines to buildings or homes? Yes No Evidence of electric lines: Conduits to ground from electric meter or along wall? Yes No Conduits from power poles running into ground? Yes No Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) No Evidence of sewer drains: Green Restrooms or kitchen on site? Yes No Sewer cleanouts present? Yes No iii) Combined sewer /storm lines or multiple sewer lines? Yes No D) Evidence of water lines: Water meter on site or multiple water lines? Fire hydrants in vicinity of work? No iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Yes No E) Evidence of storm drains: Open curbside or slotted grate storm drains Yes No Gutter down spouts going into ground Yes No Evidence of telecommunication lines: Orange Fiber optic warning signs in areas? Yes No ii) Aboveground cable boxes or housings or wires in work area? Marked? Yes No G) Underground storage tanks: Tank pit present, tank vent present? Yes No ii) Product lines running to dispensers/buildings? Yes No H) Do utilities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building match up. Yes No Proposed excavation marked in white? White Yes No Unclassed utilities / anomalies marked in pink? Yes No Overhead Utilities/Communication Lines - Look Up and MARK: Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No Overhead fire sprinkler system? Yes No Overhead Power lines in or near the work area: < 50 kV within 10 ft. of work area? Yes No ii) >50 - 200 kV within 15 ft. of work area? Yes No iii) >200-350 kV within 20 ft, of work area? Yes No iv) >350-500 kV within 25 ft. of work area? Yes No v) >500-750 kV within 35 ft, or work area? Yes No vi) >750-1000 kV within 45 ft. of work area? Yes No Other: Evidence of linear asphalt or concrete repair? Yes No Evidence of linear ground subsidence or change in vegetation? Yes No iii) Unmarked manholes or valve covers in work area? Yes No iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? Yes No Utility color markings not illustrated in this checklist? Yes No vii) Operating heavy equipment on unpaved/unimproved ground; review Yes No equipment route for shallow utilities crossing it and modify if necessary. O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes No* PM or Designee Name: If no, STOP WORK, call PM Name and Signature of person completing the checklist:

T







Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL)

WITH A CONFIRMED RESPONSE

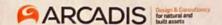


THIS FORM MUST BE COMPLETED IN ENTIRETY PRIOR TO BEGINNING ANY INTRUSIVE WORK

	Project: Project Number:	Aberdeen Proving	Ground Prelin 02118216.300	ninary Assessme	ent/Site Inspection	on
	Form Completion Date: All utility markings must be refres Pre-Field Work Required: One Call or "811"	hed ≤15 days when v	work is ongoing.	Form Expiration (15 business days of work?	post form completion #: 20-	2 on date) 11345 11 346,
	Ticket Expiration Date Utility companies notified du	Uxo ((ARA)	See attached	uirements)	
	List any other utilities requiri	ng notification:	None			
	Private Locator Contacted		No			
	Plan private utility clearance sub needed, types of utilities. When	possible re-clear 81	ents, areas, requi 1 markings to co	ired clearance equ nfirm utility location	uipment, depth of ones.	clearance
	Client provided utility maps of	or "as built" drawin	gs showing util	ities?	Yes	No
	Mechanized intrusive work	ilities. Review Che in utility Tolerar	eck list with PM nce Zone (<30-	or designee pric in.) requires pr	or to beginning in e-approval by 0	ntrusive work. Corporate H&S
0-11345	List Soil Boring / Well	IDs or Excavatio	n Locations ap	plicable to this	clearance che	cklist:
3-11345	APG-BAF-DI-50-LO-	2)/GW	APG-ALD	6-1059-1-5	0-10-1/16W	1.
70-11346	APG-BAF-E-1-50-1	1		.,	(0 2)	(20-11378)
	3 Reliable Lines of Eviden	ce Required Prio	r to Starting any	Subsurface Int	rusive Work	, w (/
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	3 Reliable Lines of Eviden One Call/"811" (Reliable Utility Markings Present: Client Provided Maps/D Client Clearance Interview(s): Did person(s) interviewe West, depths provide Additional Comment Site Inspection (Comple	ce Required Prior as a line of evide Paint Prior as a line of evident Prior as a line	r to Starting any ence when work Ein flags/stakes R n(s) of any utilities in the Document Months of Successful Utilities in the on-site with Privale on-site	NSubsurface Inting in public right ing in public right ing in public right in public right in public right in the subsurface Did not know of Marked Utilities Illity Location (H&S app (mark above gradite Utility Locators)	A Utility Struct Standard Section e utilities if warrante	ement) not provided swer tures)
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During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work):

Site Inspection	Utility Color Codes	Pres	sent
A) Natural gas line present (evidence of a gas meter)?	Yellow	Yes	No
i) Feeder Lines to buildings or homes?		Yes	No
B) Evidence of electric lines:	Red		
 i) Conduits to ground from electric meter or along w 	vall?	Yes	No
ii) Conduits from power poles running into ground?		Yes	No
iii) Light poles, electric devices with no overhead line	es?	Yes	No
iv) Overhead electric lines present? Marked? (See S	Section L)	Yes	No
C) Evidence of sewer drains:	Green		
i) Restrooms or kitchen on site?	ALC: THE RESERVE OF THE PARTY O	Yes	No
ii) Sewer cleanouts present?		Yes	No
iii) Combined sewer /storm lines or multiple sewer lin	nes?	Yes	No
D) Evidence of water lines:	Blue		
i) Water meter on site or multiple water lines?	A STATE OF THE PARTY OF THE PAR	Yes	No
ii) Fire hydrants in vicinity of work?		Yes	No
iii) Irrigation systems? (Sprinkler heads, valve boxes	, controls in building)	Yes	No
E) Evidence of storm drains:	Green		
i) Open curbside or slotted grate storm drains	The state of the s	Yes	No
ii) Gutter down spouts going into ground		Yes	No
F) Evidence of telecommunication lines:	Orange		
i) Fiber optic warning signs in areas?		Yes	No
ii) Aboveground cable boxes or housings or wires in	work area? Marked?	Yes	No
G) Underground storage tanks:			
i) Tank pit present, tank vent present?		Yes	No
ii) Product lines running to dispensers/buildings?	The state of the state of	Yes	No
H) Do utilities enter or exit existing structures/buildings?			
If Yes, confirm the utility markings outside of structure	cture/building match up.	Yes	No
Proposed excavation marked in white?	White	Yes	No
J) Unclassed utilities / anomalies marked in pink?	Pink	Yes	No
K) Overhead Utilities/Communication Lines - Look Up a	and MARK:		
i) Overhead electrical conduit, pipe chases, cable to		Yes	No
ii) Overhead fire sprinkler system?		Yes	No
L) Overhead Power lines in or near the work area:			and the same
i) < 50 kV within 10 ft. of work area?		Yes	No
ii) >50 - 200 kV within 15 ft, of work area?		Yes	No
iii) >200-350 kV within 20 ft, of work area?		Yes	No
iv) >350-500 kV within 25 ft. of work area?		Yes	No
v) >500-750 kV within 35 ft. or work area?		Yes	No
vi) >750-1000 kV within 45 ft. of work area?		Yes	No
M) Other:			
i) Evidence of linear asphalt or concrete repair?		Yes	No
ii) Evidence of linear ground subsidence or change	in vegetation?	Yes	No
iii) Unmarked manholes or valve covers in work area	a?	Yes	No
iv) Warning signs (Call Before you Dig, Look Up, etc	c.) on or adjacent to site?	Yes	No
v) Utility color markings not illustrated in this checkli		Yes	No
vii) Operating heavy equipment on unpaved/unimpro	The state of the s	Yes	
equipment route for shallow utilities crossing it an	d modify if necessary.		No
O) Utilities & Structures Checklist been reviewed by the	PM or Designee	Yes	No*
PM or Designee Name:		* If no, STOP V	WORK, call PM
Name and Signature of person completing the checklist: Date:			

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE













roject Number:	02118216.30	liminary Assessm		tion,	
orm Completion Date:	02110210.30		n Date: 3/19	12.1	
Il utility markings must be refreshed ≤15 da	ys when work is ongoing	(15 business days	s post form complet	tion date)	_
re-Field Work					100
Required: One Call or "811" notified	48-72 hours in advan	ce of work?	#: 20	-11378	20-11
Ticket Expiration Date 313	(F	Review State Req	uirements)	-11377	
Itility companies notified during the C	ine can produce	See attached	ticket		
INFRA MAD	Uxo (larc-)	-			_
ist any other utilities requiring notifica	ation: None				_
	ation. Hone				
Private Locator Contacted (Yes)	No				-
Plan private utility clearance subcontractor	assignments areas reg	uired clearance equ	uipment, depth of	f clearance	
eeded, types of utilities. When possible re	e-clear 811 markings to c	confirm utility location	ns.	· CIDENTALIDO	
Client provided utility maps or "as buil				NE	
provided duity maps of as built	t drawings snowing u	undes r	Yes	No	
ield Work - This must be completed	on site, by staff who h	ave a minimum o	of one year of fi	eld evnerience	
in identifying utilities. Re	view Check list with Pl	M or designee price	or to beginning	intrusive work	
Mechanized intrusive work in utility	Tolerance Zone (<3	0-in.) requires pr	e-approval by	Corporate H	&S
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List con Borning / Well IDS OF EX	cavation Locations	applicable to this	s clearance cn		
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Apti-Loading-PAD-1-50-(0-2)/cst Apti-Loading-PAD-1-50-(0-2)/cst Apti-Loading-PAD-1-50-(0-2)/cst Apti-Loading-PAD-1-50-(0-2)/cst Apti-Loading-PAD-1-50-(0-2)/cst Reliable Lines of Evidence Requi One Call/"811" (Reliable as a line Utility Markings Present: Patint Client Provided Maps/Drawings Client Clearance Name(s) Interview(s): Name(s) Interview(s): Name(s) Did person(s) interviewed indicate Yes, depths provided: Additional Comments: Site Inspection (Complete Page 2) Public Records / Maps / As-Builts Private Locator: (Name and Co Ground Penetrating Radar (GPR) Radiofrequency (RF Loc) Electromagnetic (EM) Metal Detector Soft Dig Methods Termination Depthft. bgs Potholing / Vacuum Extraction Air knife Hydro knife	APLI - MFC	ny Subsurface Intrking in public righes Other Maps/Drawing Other Other Maps/Drawing Other Other Maps/Drawing Other Maps/Drawing Other Other Maps/Drawing Other Maps/Drawing Other Other Maps/Drawing Other	trusive Work and of way or eas None as requested but as requested but as requested to an as a Willity Struct as a Warning as markings a clearance process and to question as border as to a clearance process and to question as to a clearance process and to a clearan	APL-OLD-FI	TA-2-50-(
Apti-Loading-PAD-1-50-(0-2)/csu Apti-Loading-PAD-1-50-(0-2)/csu Apti-Loading-PAD-1-50-(0-2)/csu Apti-Loading-PAD-1-50-(0-2)/csu Apti-Loading-PAD-1-50-(0-2)/csu Apti-Loading-PAD-1-50-(0-2)/csu Reliable Lines of Evidence Requi One Call/"811" (Reliable as a line Utility Markings Present: Patint Client Provided Maps/Drawings Client Clearance Name(s) Interview(s): Name(s) Did person(s) interviewed indicate Yes, depths provided: Additional Comments: Site Inspection (Complete Page 2) Public Records / Maps / As-Builts Private Locator: (Name and Co Ground Penetrating Radar (GPR) Radiofrequency (RF Loc) Electromagnetic (EM) Metal Detector Soft Dig Methods Termination Depthft. bgs Potholing / Vacuum Extraction	APLS—MFO APL	Naps/Drawing Na	trusive Work and of way or east None as requested but as requested but as requested but as requested to an as well as the section as utilities if warrant as markings a clearance process and to question as the section	Aph-OLD-FI	TA-2-50-(



During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): Site Inspection **Utility Color Codes** Present A) Natural gas line present (evidence of a gas meter)? Yellow Yes No i) Feeder Lines to buildings or homes? Yes No B) Evidence of electric lines: Red i) Conduits to ground from electric meter or along wall? Yes No ii) Conduits from power poles running into ground? Yes No iii) Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) Yes No C) Evidence of sewer drains: Green Restrooms or kitchen on site? Yes No ii) Sewer cleanouts present? Yes No iii) Combined sewer /storm lines or multiple sewer lines? Yes No D) Evidence of water lines: Blue Water meter on site or multiple water lines? Yes No Fire hydrants in vicinity of work? Yes No iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Yes No E) Evidence of storm drains: Green Open curbside or slotted grate storm drains Yes No Gutter down spouts going into ground Yes No Evidence of telecommunication lines: Fiber optic warning signs in areas? Yes No Aboveground cable boxes or housings or wires in work area? Marked? Yes No G) Underground storage tanks: Tank pit present, tank vent present? Yes No ii) Product lines running to dispensers/buildings? Yes No Do utilities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building match up. Yes No Proposed excavation marked in white? White Yes Unclassed utilities / anomalies marked in pink? No Yes No K) Overhead Utilities/Communication Lines - Look Up and MARK: Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No ii) Overhead fire sprinkler system? Yes No L) Overhead Power lines in or near the work area: < 50 kV within 10 ft. of work area? Yes No ii) >50 - 200 kV within 15 ft. of work area? Yes No iii) >200-350 kV within 20 ft. of work area? Yes No iv) >350-500 kV within 25 ft. of work area? Yes v) >500-750 kV within 35 ft. or work area? No Yes vi) >750-1000 kV within 45 ft. of work area? No Yes M) Other: No i) Evidence of linear asphalt or concrete repair? Yes ii) Evidence of linear ground subsidence or change in vegetation? No Yes iii) Unmarked manholes or valve covers in work area? No Yes iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? No Yes No v) Utility color markings not illustrated in this checklist? Yes vii) Operating heavy equipment on unpaved/unimproved ground; review No Yes equipment route for shallow utilities crossing it and modify if necessary. No O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes No* PM or Designee Name: If no, STOP WORK, call PM Name and Signature of person completing the checklisty

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S. ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE

TRACK











THIS FORM MUST BE COMPLETED IN ENTIRETY PRIOR TO BEGINNING ANY INTRUSIVE WORK

Project Number:	Aberdeen Provi		minary Assessment/Site Inspe	ction
		02118216.300		
Form Completion Date: All utility markings must be refre Pre-Field Work	shed <u>≤</u> 15 days whe	n work is ongoing.	Form Expiration Date: 3 (15 business days post form comp	Zo 7 letion date)
Required: One Call or "81"	1" notified 48.72	hours in advance	o of work? # 7	0-11357, 20-1
Ticket Expiration Date	3/17		Review State Requirements)	
Utility companies notified d	uring the One Ca		See attached ticket	20-11355
INFAA MAP		co (cora)	occ attached toxot	
miss utility		C (I WIC)		
List any other utilities requi	ring notification:	None		
Private Locator Contacted	(Yes)	No		
Plan private utility clearance s	ubcontractor assign	ments, areas, req	uired clearance equipment, depth	of clearance
needed, types of utilities. Whe	n possible re-clear	811 markings to c	onfirm utility locations.	
Client provided utility maps	or "as built" drav	vings showing ut	tilities? Yes	No
Field Work - This must be	completed on sit	e. by staff who h	ave a minimum of one year of	field experience
			or designee prior to beginnin	
			0-in.) requires pre-approval b	
the state of the s			applicable to this clearance of	
APG-ABRG-1-GW			(0-2) APG-ABR7-1-	20-(0-5)
APG-ABR6-1-50-60	-Z) APG-F	ABR7-1-6W	APG-ABR3-1-GW	4
DENERGE SECTION	Andrew Co. Co.		ANG ABES 1 30 CO.	-2)
			ny Subsurface Intrusive Work	
One Call/"811" (Reliat	ole as a line of evi		rking in public right of way or e	asement)
Utility Markings Presen	it: Paint	Pin flags/stake	es Other None	
Client Provided Maps/	Drawings	OR	Maps/Drawings requested	out not provided
	Name(s)/Affilia	tion(s)	Suft Dia	
Client Clearance		tion(e)		
Client Clearance Interview(s):	Name(s)/Affilia	uon(s)		
Interview(s):				
Interview(s): Did person(s) interview	wed indicate dept			
Interview(s): Did person(s) interview Yes, depths provident	wed indicate dept ded:		s in the subsurface? Did not know or refused to	answer
Interview(s): Did person(s) interview	wed indicate dept ded:			answer
Interview(s): Did person(s) interview Yes, depths provident	wed indicate dept ded:			answer
Interview(s): Did person(s) interviev Yes, depths provided Additional Comme	wed indicate dept ded: ents:	ths of any utilities	Did not know or refused to	
Interview(s): Did person(s) interview Yes, depths provided Additional Comments Site Inspection (Company)	wed indicate dept ded: ents:	ths of any utilities		
Interview(s): Did person(s) interview Yes, depths provided Additional Comments Site Inspection (Compublic Records / Maps	wed indicate dept ded: ents: plete Page 2 & Ples / As-Builts	ths of any utilities	Did not know or refused to	
Interview(s): Did person(s) interview Yes, depths provided Additional Comment Site Inspection (Compound Records / Maps Private Locator: (Na	wed indicate dept ded: ents: Diete Page 2 & Pis / As-Builts me and Compar	ths of any utilities	Did not know or refused to	
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Interview(s): Did person(s) interview Yes, depths provided Additional Common Site Inspection (Composition Records / Mapserivate Locator: (National Penetrating Reprivate Locator) (RFL Electromagnetic (EM)	wed indicate dept ded: ents: plete Page 2 & Plete Page 3 As-Builts me and Compar adar GPR	hoto Document Sof a Successful 1. Don't forget to lool 2. Be on-site with Pri	Did not know or refused to t Marked Utilities & Utility Str Dia Utility Location (H&S Standard Section of the property of t	tion 5.6):
Interview(s): Did person(s) interview Yes, depths provided Additional Common Site Inspection (Composition Records / Mapserivate Locator: (National Country Public Records / Mapserivate Locator: (National Country Rediofrequency (RF Lelectromagnetic (EM) Metal Detector	wed indicate dept ded: ents: plete Page 2 & Pl s / As-Builts me and Compar adar GPR	hoto Document Sofa Tips for Successful Don't forget to lool Be on-site with Pri Ask Private Locate	Did not know or refused to t Marked Utilities & Utility Str Utility Location (H&S Standard Section (Mark above grade utilities if warn ivate Utility Locators ors to "confirm" other's markings	tion 5.6):
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Interview(s): Did person(s) interview Yes, depths provided Additional Comments of the Inspection (Comparison of the Inspection (Comparison of the Inspection (Comparison of the Inspection (Comparison of the Inspection of the Ins	wed indicate dept ded: ents: plete Page 2 & Plete P	hoto Document Sofa Tips for Successful Don't forget to lool Be on-site with Pri A Select atternate/bs Mark out all know	Did not know or refused to t Marked Utilities & Utility Str Utility Location (H&S Standard Sec k up (mark above grade utilities if war ivate Utility Locators ors to "confirm" other's markings ackup locations during clearance proc n utilities. Leave nothing to question	tion 5.6): anted)
Interview(s): Did person(s) interview Yes, depths provided Additional Common Site Inspection (Composition Records / Mapserivate Locator: (Nata Ground Penetrating Reproperties (EM) Metal Detector Soft Dig Method	wed indicate dept ded: ents: plete Page 2 & Pl s / As-Builts me and Compar adar (GPR) oc) ft. bgs dtraction	hoto Document Tips for Successful 1. Don't forget to lool 2. Be on-site with Pri 3. Ask Private Locate 4. Select alternate/b 5. Mark out all known 6. No hammering - n 7. No excessive turn	Did not know or refused to t Marked Utilities & Utility Str Utility Location (H&S Standard Sect k up (mark above grade utilities if warn ivate Utility Locators ors to "confirm" other's markings ackup locations during clearance proc n utilities. Leave nothing to question to pickaxes - no digging bars - no shot ing or downward force of hand augers	tion 5.6): anted)
Interview(s): Did person(s) interview Yes, depths provided Additional Comments of the Inspection (Comparison of the Inspection (Comparison of the Inspection (Comparison of the Inspection (Comparison of the Inspection of the Ins	wed indicate dept ded: ents: plete Page 2 & P s / As-Builts me and Compar adar (GPR) oc) ft. bgs draction ife	hoto Document Ty) Sof-1 Tips for Successful 1. Don't forget to lool 2. Be on-site with Pri 3. Ask Private Locate 4. Select alternate/be 5. Mark out all known 6. No hammering - n 7. No excessive turn 8. Utilities may run in	Did not know or refused to t Marked Utilities & Utility Str Utility Location (H&S Standard Sect k up (mark above grade utilities if warr ivate Utility Locators ors to "confirm" other's markings ackup locations during clearance proc n utilities. Leave nothing to question to pickaxes - no digging bars - no shot ing or downward force of hand augers n or directly under asphalt/concrete	tion 5.6): anted) ess rtcutting
Interview(s): Did person(s) interview Yes, depths provided Additional Comments of the Inspection (Compared Public Records / Mapserivate Locator: (Nata Ground Penetrating Reprovements of the Inspection (EM) Metal Detector Soft Dig Method Termination Depth Potholing / Vacuum Examples (Page 1)	wed indicate dept ded: ents: plete Page 2 & P s / As-Builts me and Compar adar (GPR) oc) Isft. bgs ktraction life	hoto Document Tips for Successful 1. Don't forget to lool 2. Be on-site with Pri 3. Ask Private Locat 4. Select alternate/be 5. Mark out all known 6. No hammering - n 7. No excessive turn 8. Utilities may run in 9. Clearing, grubbing	Did not know or refused to t Marked Utilities & Utility Str Utility Location (H&S Standard Sect k up (mark above grade utilities if warr ivate Utility Locators ors to "confirm" other's markings ackup locations during clearance proc n utilities. Leave nothing to question to pickaxes - no digging bars - no sho ing or downward force of hand augers n or directly under asphalt/concrete g, and heavy equipment may damage	tion 5.6): anted) ess rtcutting s/shovels shallow utilities.
Interview(s): Did person(s) interview Yes, depths provided Additional Common Site Inspection (Composition Records / Mapson Private Locator: (Nata Ground Penetrating Reprivate Locator: (Nata Ground Penetrating Reprivate Lectromagnetic (EM) Metal Detector Soft Dig Method Termination Depth Potholing / Vacuum Experimental Potholing / Vacuum Experimen	wed indicate dept ded: ents: plete Page 2 & P s / As-Builts me and Compar adar (GPR) oc) Isft. bgs ktraction life	hoto Document Tips for Successful 1. Don't forget to lool 2. Be on-site with Pri 3. Ask Private Locat 4. Select alternate/be 5. Mark out all known 6. No hammering - n 7. No excessive turn 8. Utilities may run in 9. Clearing, grubbing	Did not know or refused to t Marked Utilities & Utility Str Utility Location (H&S Standard Sect k up (mark above grade utilities if warr ivate Utility Locators ors to "confirm" other's markings ackup locations during clearance proc n utilities. Leave nothing to question to pickaxes - no digging bars - no shot ing or downward force of hand augers n or directly under asphalt/concrete	tion 5.6): anted) ess rtcutting s/shovels shallow utilities.

1 of 2

Marin Marin













During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): Site Inspection **Utility Color Codes** Present A) Natural gas line present (evidence of a gas meter)? Yellow Yes No i) Feeder Lines to buildings or homes? Yes No B) Evidence of electric lines: Red Conduits to ground from electric meter or along wall? Yes No ii) Conduits from power poles running into ground? Yes No iii) Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) Yes No C) Evidence of sewer drains: Green i) Restrooms or kitchen on site? Yes No Sewer cleanouts present? Yes No iii) Combined sewer /storm lines or multiple sewer lines? Yes No D) Evidence of water lines: Water meter on site or multiple water lines? Yes No Fire hydrants in vicinity of work? Yes No iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Yes No E) Evidence of storm drains: Open curbside or slotted grate storm drains Yes No ii) Gutter down spouts going into ground Yes No Evidence of telecommunication lines: Fiber optic warning signs in areas? Yes No Aboveground cable boxes or housings or wires in work area? Marked? Yes No G) Underground storage tanks: Tank pit present, tank vent present? Yes No ii) Product lines running to dispensers/buildings? Yes No Do utilities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building match up. Yes No Proposed excavation marked in white? Yes J) Unclassed utilities / anomalies marked in pink? No K) Overhead Utilities/Communication Lines - Look Up and MARK: Yes No Overhead electrical conduit, pipe chases, cable trays, product lines? ii) Overhead fire sprinkler system? Yes No Yes Overhead Power lines in or near the work area: No < 50 kV within 10 ft. of work area? Yes >50 - 200 kV within 15 ft. of work area? No Yes iii) >200-350 kV within 20 ft. of work area? No Yes iv) >350-500 kV within 25 ft. of work area? No Yes v) >500-750 kV within 35 ft. or work area? No Yes No vi) >750-1000 kV within 45 ft. of work area? Yes M) Other: No i) Evidence of linear asphalt or concrete repair? Yes ii) Evidence of linear ground subsidence or change in vegetation? No Yes No iii) Unmarked manholes or valve covers in work area? Yes No iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? Yes No v) Utility color markings not illustrated in this checklist? Yes No vii) Operating heavy equipment on unpaved/unimproved ground; review Yes equipment route for shallow utilities crossing it and modify if necessary. No O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes No* PM or Designee Name: * If no, STOP WORK, call PM Name and Signature of person completing the checklist:

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE







Date:

murked +



Project:	Aberdeen Proving Ground Preliminary Assessment/Site Inspection
Project Number:	02118216.3005.8AC00
Form Completion Date:	Form Expiration Date: 3/23/21
All utility markings must be refres	shed ≤15 days when work is ongoing. (15 business days post form completion date)
Pre-Field Work	
Required: One Call or "811"	notified 48-72 hours in advance of work? #: 20-1/358, 71-1/500
Ticket Expiration Date	3/17/Z1 (Review State Requirements)
Utility companies notified du	ring the One Call process See attached ticket
WERA MAR	UXO (LARA)
miss utility	
List any other utilities requiri	ng notification: None
Private Locator Contacted	(Yes) No
Plan private utility clearance sul	bcontractor assignments, areas, required clearance equipment, depth of clearance
needed, types of utilities. When	possible re-clear 811 markings to confirm utility locations.
	~
Client provided utility maps	or "as built" drawings showing utilities?
Field Work - This must be	completed on elter by staff at a transfer of the staff at a staff
in identified u	completed on site, by staff who have a minimum of one year of field experience
Mechanized intrusive wor	tilities. Review Check list with PM or designee prior to beginning intrusive work. k in utility Tolerance Zone (<30-in.) requires pre-approval by Corporate H&S
List Soil Boring / Well	IDs or Excavation Locations applicable to this clearance checklist:
APG-Boneyard - 1 -	
(1,2,3,4,5,	(1,2,3,4,5,6,7)
3 Reliable Lines of Evider	nce Required Prior to Starting any Subsurface Intrusive Work
One Call/"811" (Reliabl	e as a line of evidence when working in public right of way or easement)
Utility Markings Present:	Paint Pin flags/stakes Other None
Client Provided Maps/D	
Interview(s):	Name(s)/Affiliation(s) Name(s)/Affiliation(s)
microlew(s).	Name(s)/Anniauon(s)
Did person(s) interview	ed indicate depths of any utilities in the subsurface?
Yes, depths provide	Did not know or refused to answer
Additional Commer	its: chared zone is
	ourcy from utility depths
Site Inspection (Commi	away tron ontil
Public Records / Maps	lete Page 2 & Photo Document Marked Utilities & Utility Structures)
	ne and Company) Soft Dia
Ground Penetrating Ra	ider (GDD)
Radiofrequency (RF Lo	Tips for Successful Utility Location (H&S Standard Section 5.6): 1. Don't forget to look up (mark above grade utilities if warranted)
Electromagnetic (EM)	2. Be on-site with Private Utility Locators
Metal Detector	3. Ask Private Locators to "confirm" other's markings
Soft Dig Method	Select alternate/backup locations during clearance process
Termination Depth	ft, bgs 5. Mark out all known utilities. Leave nothing to question 6. No hammering - no pickaxes - no digging bars - no shortcutting
Potholing / Vacuum Ex	traction 7. No excessive turning or downward force of hand augers/shovels
Air knife Hydro kni	ife 8. Utilities may run in or directly under asphalt/concrete
Probing	Clearing, grubbing, and heavy equipment may damage shallow utilities.
Harid Auguring) ~ 5	10. Is Spotter needed for Heavy Equipment near aboveground utilities?
Other:	UXO (care)
Marine Locator: (Name	and Company)









During the site inspection look for the following: ("YES" requires additional investigation and the utility

	must be marked properly prior to beginning subsurface intrusive work):		
The State of the S	Site Inspection Utility Color Codes	s Pre	sent
	A) Natural gas line present (evidence of a gas meter)? Yellow	Yes	No
	i) Feeder Lines to buildings or homes?	Yes	No
	B) Evidence of electric lines:		
	Conduits to ground from electric meter or along wall?	Yes	No
	Conduits from power poles running into ground?	Yes	No
1000	III) Light poles, electric devices with no overhead lines?	Yes	No
	Overhead electric lines present? Marked? (See Section L)	Yes	No
	C) Evidence of sewer drains: Green	100	110
	i) Restrooms or kitchen on site?	Yes	No
	ii) Sewer cleanouts present?	Yes	No
	iii) Combined sewer /storm lines or multiple sewer lines?	Yes	No
	b) Evidence of water lines:	163	140
	i) Water meter on site or multiple water lines?	Yes	No
	Fire hydrants in vicinity of work?	Yes	No
	III) Irrigation systems? (Sprinkler heads valve hoves controls in building)	Yes	2.2
	E) Evidence of storm drains:	165	No
	Open curbside or slotted grate storm drains	Yes	No
	II) Gutter down spouts going into ground	Yes	No
77	F) Evidence of telecommunication lines:	100	140
	Fiber optic warning signs in areas?	Yes	No
ou o 1	ii) Aboveground cable boxes or housings or wires in work area? Marked?	Yes	No
all chared	o) Onderground storage tanks:		
uxo area	i) Tank pit present, tank vent present?	Yes	No
outlined in	ii) Product lines running to dispensers/buildings?	Yes	No
marge +	H) Do utilities enter or exit existing structures/buildings?	A CAN	
0.00	If Yes, confirm the utility markings outside of structure/building match up. I) Proposed excavation marked in white?	Yes	No
wood stakes,	N Harter I write White	Yes	No
barehore 1010+10		Yes	No
is wood			
18.	 i) Overhead electrical conduit, pipe chases, cable trays, product lines? ii) Overhead fire sprinkler system? 	Yes	No
stake with	L) Overhead Power lines in or near the work area:	Yes	No
pinil flag	i) < 50 kV within 10 ft. of work area?		
	ii) >50 - 200 kV within 15 ft. of work area?	Yes	No
	iii) >200-350 kV within 20 ft. of work area?	Yes	No
	iv) >350-500 kV within 25 ft. of work area?	Yes	No
	v) >500-750 kV within 35 ft. or work area?	Yes	No
	vi) >750-1000 kV within 45 ft. of work area?	Yes	No
	M) Other:	Yes	No
	i) Evidence of linear asphalt or concrete repair?	Van	
	ii) Evidence of linear ground subsidence or change in vegetation?	Yes	No
	iii) Unmarked manholes or valve covers in work area?	Yes	No
	iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site?	Yes	No
	V) I Itility color markings not illustrated in this at a Livia	Yes	No
	vii) Operating heavy equipment on unpaved/unimproved ground; review	Yes	No
	equipment route for shallow utilities crossing it and modify if necessary	Yes	No
	Utilities & Structures Checklist been reviewed by the PM or Designee	Yes	No*
	PM or Designee Name:	* If no, STOP V	VORK, call P
	Name and Signature of person completing the checklist:	ir no, STOP V	VORK, call

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE













THIS FORM MUST BE COMPLETED IN ENTIRETY PRIOR TO BEGINNING ANY INTRUSIVE WORK

Project: A	berdeen Proving Ground Prelim	ninary Assessment/Site Inspection	
Project Number:	02118216.3005		
Form Completion Date: All utility markings must be refresh	ned ≤15 days when work is ongoing.	Form Expiration Date: 3/25/71 (15 business days post form completion date)	_
Pre-Field Work	as 210 days when work is ongoing.	(15 business days post form completion date)	
	notified 48-72 hours in advance	of work? #: 24-11453 74-	11451
Ticket Expiration Date	3 29 2 (Re	of work? #: 20-11453, 20-	
Utility companies notified duri	ing the One Call process	See attached ticket	11433
INFRA MAD	uxo (caa)	Zs -11449, Zo	-1144
miss utility	Soft DIG		-
List any other utilities requiring	ng notification: None		
Private Locator Contacted	Yes No		-
Plan private utility clearance sub	contractor assignments, areas, requi	ired clearance equipment, depth of clearance	
needed, types of utilities. When	possible re-clear 811 markings to cor	nfirm utility locations.	
Client provided utility maps of	or "as built" drawings showing utili	ities? Yes No	
Field Work - This must be o	ompleted on site, by steff who ha	ve a minimum of one year of field experience	
in identifying ut	ilities Review Check list with DM	or designee prior to beginning intrusive work.	
Mechanized intrusive work	in utility Tolerance Zone (<30-	in.) requires pre-approval by Corporate H&	
			2
APG-BLOG-E4081-1-50	Apla-BLDG-E4081-2-SE	oplicable to this clearance checklist:	
	APG-TANK-FIRE-1-SE	APG-NOBLE-ROAD-1-50	
APG- GLOG-E4081-1-SE		APG-NOBLE-ROAD- 2-50	
	17110011-30		J
One Call/"911" (Polichia	nce Required Prior to Starting any	y Subsurface Intrusive Work	
Utility Markings Present:	Paint Pin flags/stakes	king in public right of way or easement)	
Client Provided Maps/D		Maps/Drawings requested but not provided	
Client Clearance	Name(s)/Affiliation(s)	VERA MAD	
Interview(s):	Name(s)/Affiliation(s)		
Did person(s) interview	ed indicate depths of any utilities	in the subsurface?	
Yes, depths provide	ed:	Did not know or refused to answer	
Additional Commen	its: Derend Fore	S	
	730" away 1	mm utilities	
Site Inspection (Comple	ete Page 2 & Photo Document I	Marked Utilities & Utility Structures)	
Public Records / Maps	/ As-Builts	marked offilities & Offility Structures)	
Private Locator: (Nam	ne and Company) Soft Dic		
Ground Penetrating Ra	dar (GPR)		_
Radiofrequency (RF Lo	C) Tips for Successful U	Itility Location (H&S Standard Section 5.6):	
Electromagnetic (EM)	1. Don't forget to look 2. Be on-site with Privi	up (mark above grade utilities if warments at	
Metal Detector	3. Ask Private Locator	rs to "confirm" other's markings	
Soft Dig Methods	4. Select alternate/bac	ckup locations during clearence	
Termination Depth	5. Mark out all known	utilities. Leave nothing to question	
Potholing / Vacuum Ext	1. No excessive turning	pickaxes - no digging bars - no shortcutting ng or downward force of hand augers/shovels	
Air knife Hydro kni	o. Utilities may run in	Of directly under asphalt/concrete	
Probing	9. Clearing, grubbing.	and heavy equipment may damage about	
Hand Auguring >5	, IV. IS Spotter needed	for Heavy Equipment near aboveground utilities?	
Other:	UXO (cara)		
3.0151			
Marine Locator: (Name	and Company)		









During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): **Utility Color Codes** Present A) Natural gas line present (evidence of a gas meter)? Yellow Yes No i) Feeder Lines to buildings or homes? Yes No B) Evidence of electric lines: Red i) Conduits to ground from electric meter or along wall? Yes No ii) Conduits from power poles running into ground? Yes No iii) Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) Yes No C) Evidence of sewer drains: Restrooms or kitchen on site? Yes No ii) Sewer cleanouts present? Yes No iii) Combined sewer /storm lines or multiple sewer lines? Yes No D) Evidence of water lines: Blue Water meter on site or multiple water lines? Yes No Fire hydrants in vicinity of work? Yes No iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Yes No E) Evidence of storm drains: Green Open curbside or slotted grate storm drains Yes No ii) Gutter down spouts going into ground Yes No Evidence of telecommunication lines: Fiber optic warning signs in areas? No ii) Aboveground cable boxes or housings or wires in work area? Marked? Clerco uxo Yes No G) Underground storage tanks: Tank pit present, tank vent present? Yes No ii) Product lines running to dispensers/buildings? Yes No H) Do utilities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building match up. Yes No Claved utility 1) Proposed excavation marked in white? White Yes No Unclassed utilities / anomalies marked in pink? Tore Pink Yes No Overhead Utilities/Communication Lines - Look Up and MARK Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No Overhead fire sprinkler system? Yes No Overhead Power lines in or near the work area: < 50 kV within 10 ft. of work area? Yes No >50 - 200 kV within 15 ft. of work area? Yes No >200-350 kV within 20 ft. of work area? Yes No >350-500 kV within 25 ft. of work area? Yes No >500-750 kV within 35 ft. or work area? Yes No vi) >750-1000 kV within 45 ft. of work area? Yes No M) Other: Evidence of linear asphalt or concrete repair? Yes Evidence of linear ground subsidence or change in vegetation? No Yes No iii) Unmarked manholes or valve covers in work area? Yes No iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? Yes v) Utility color markings not illustrated in this checklist? No Yes No vii) Operating heavy equipment on unpaved/unimproved ground; review Yes equipment route for shallow utilities crossing it and modify if necessary. No O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes No* PM or Designee Name: * If no, STOP WORK, call PM Name and Signature of person completing the checklist: Date: 3/10/21 Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S. ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL)







WITH A CONFIRMED RESPONSE



THIS FORM MUST BE COMPLETED IN ENTIRETY PRIOR TO BEGINNING ANY INTRUSIVE WORK

Project:	Aberdeen Proving Ground Prelimi	nary Assessment/Site	e Inspection
Project Number:	02118216.3005.		
Form Completion Date:		Form Expiration Date	: 3/26/21
	shed ≤15 days when work is ongoing.	(15 business days post for	m completion date)
Pre-Field Work			
Required: One Call or "811	notified 48-72 hours in advance		#: 20-11381
Ticket Expiration Date	3 29 21 (Rev	view State Requireme	ents)
Utility companies notified du	,	See attached ticket	
MISS UTILL	- Uxo (care)		
List any other utilities requir	ing notification: None		
	ing notinoditon.		
Private Locator Contacted	(res) No		The second second
	bcontractor assignments, areas, require	ad alcaronae aquinment	donth of clearance
needed, types of utilities. When	n possible re-clear 811 markings to conf	firm utility locations	, depth of clearance
Client provided utility maps	or "as built" drawings showing utilit	ies?	Yes No
Field Wark This must be	sompleted on site, by stoff who have	o a minimum of ano	oor of field experience
	completed on site, by staff who hav tilities. Review Check list with PM o		
	rk in utility Tolerance Zone (<30-i		
List Soil Boring / Wel	I IDs or Excavation Locations ap		ance checklist:
APG-BLDG-2200-1	-50/6W APG-BLOG-230	08-1-6M	
APG- 9106-7200-	2-50		1.5
3 Reliable Lines of Evide	nce Required Prior to Starting any	Subsurface Intrusive	Work
One Call/"811" (Reliab	le as a line of evidence when worki	ng in public right of wa	ay or easement)
Utility Markings Present	Pin flags/stakes		
Client Provided Maps/	Drawings OR	Maps/Drawings requ	ested but not provided
Client Clearance		FRA MAP	
Interview(s):	Name(s)/Affiliation(s)		
Did (a) intension	ved indicate depths of any utilities in	the subsurface?	
Yes, depths provide	ed:	Did not know or refu	sed to answer
Additional Comme	nts: Zone of Zone		
Additional Commo	> 30" away fr lete Page 2 & Photo Document N	om utilital	
and the second second	Para 2 & Photo Document W	larked Utilities & Uti	lity Structures)
Site Inspection (Comp	/ As Builts	idi itod o iliitioo di o il	,
Public Records / Maps	me and Company) Soft D	160	
Ground Penetrating Ra	oder (GPR)		Darling and the Control of the Contr
Radiofrequency (RF L		ility Location (H&S Stand	ard Section 5.6):
Electromagnetic (EM)	1. Don't forget to look u 2. Be on-site with Priva	p (mark above grade utilitie	es if warranted)
	2 Ask Drivate Locators	to "confirm" other's marking	gs
Metal Detector Soft Dig Method	4 Coloct alternate/back	cup locations during clearar	nce process
	ff has a Ne hammering - no r	tilities. Leave nothing to que pickaxes - no digging bars -	no snortcuturig
Termination Depth	7 No evenerive turning	or downward force of nand	augers/snoveis
Potholing / Vacuum Ex	a country and in a	r directly under asphalt/con	crete
Air knife Hydro kr	9. Clearing, grubbing, a	and heavy equipment may on the avy Equipment near a	boveground utilities?
Probing	>51		100 00 100
Hand Auguring			
Other:			
Marine Locator: (Name	and Company) —		



During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): Site Inspection **Utility Color Codes** Present A) Natural gas line present (evidence of a gas meter)? Yes No Yellow i) Feeder Lines to buildings or homes? No Yes B) Evidence of electric lines: Red i) Conduits to ground from electric meter or along wall? Yes No ii) Conduits from power poles running into ground? Yes No iii) Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) Yes No C) Evidence of sewer drains: i) Restrooms or kitchen on site? Yes No ii) Sewer cleanouts present? Yes No iii) Combined sewer /storm lines or multiple sewer lines? Yes No D) Evidence of water lines: i) Water meter on site or multiple water lines? Yes No ii) Fire hydrants in vicinity of work? No Yes iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Yes No E) Evidence of storm drains: Open curbside or slotted grate storm drains Yes No ii) Gutter down spouts going into ground Yes No Evidence of telecommunication lines: Orange Fiber optic warning signs in areas? No Yes Aboveground cable boxes or housings or wires in work area? Marked? Yes No is creared UKO G) Underground storage tanks: Tank pit present, tank vent present? Yes No ii) Product lines running to dispensers/buildings? Yes No Do utilities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building match up. Yes No Proposed excavation marked in white? White No Yes Unclassed utilities / anomalies marked in pink? No Overhead Utilities/Communication Lines - Look Up and MARK Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No Overhead fire sprinkler system? Yes No Overhead Power lines in or near the work area: < 50 kV within 10 ft. of work area? Yes No >50 - 200 kV within 15 ft. of work area? Yes No >200-350 kV within 20 ft, of work area? Yes No iv) >350-500 kV within 25 ft. of work area? Yes No >500-750 kV within 35 ft. or work area? Yes No vi) >750-1000 kV within 45 ft. of work area? Yes No Other: Evidence of linear asphalt or concrete repair? Yes No ii) Evidence of linear ground subsidence or change in vegetation? Yes No iii) Unmarked manholes or valve covers in work area? Yes No iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? Yes No v) Utility color markings not illustrated in this checklist? Yes No vii) Operating heavy equipment on unpaved/unimproved ground; review Yes equipment route for shallow utilities crossing it and modify if necessary. O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes No* PM or Designee Name: * If no, STOP WORK, call PM

> Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE

Name and Signature of person completing the checklist:





orange paint

THIS FORM MUST BE COMPLETED IN ENTIRETY PRIOR TO BEGINNING ANY INTRUSIVE WORK

Project:	Aberdeen Proving Ground Prelin	IIIIaly Assessmentone II	- Inposition	
Project Number:	02118216.300	5.8AC00 Form Expiration Date:	alasla I	
Form Completion Date: All utility markings must be refres	hed ≤15 days when work is ongoing.	(15 business days post form	completion date)	
Pre-Field Work		of work? #:	70-11280	+20-11402
Ticket Expiration Date		view State Requirements See attached ticket	5) 20-110401	+ <2
Utility companies notified dur		See allaction licker	20-11404	
INFRA MAP	Uxo (cara)			5
List any other utilities requirir	ng notification: None			_
Private Locator Contacted	No No	and also assument of	enth of clearance	
Plan private utility clearance sub	possible re-clear 811 markings to co	nfirm utility locations.	^	7-11-12-1-62
		/ 1	No APE	1-p1-12-1-50
Client provided utility maps of	or "as built" drawings showing util	ities?	APL	1-101-12-2-676
in identifying ut	ompleted on site, by staff who ha ilities. Review Check list with PM a in utility Tolerance Zone (<30	or designee prior to begin in.) requires pre-appro	val by Corporate Ha	ls /
List Soil Boring / Well	IDs or Excavation Locations ap	oplicable to this clearan	ce checklist:	APG-AA5-1-6W
Aph-BLD 4-300-1-6W	MB APH-BLD	4-300-1-5060-2)		APG-AAS-1-SE
APG-BLOG- 300-2-6	W APG-BLD	3-300-2-50-(0.	-2)	Apa-p1-minefield-1-
	rawings OR	Other None Maps/Drawings reques		1-P1-Minefield-2-56
Did person(s) interviewe Yes, depths provide Additional Comment	ed indicate depths of any utilities disconnected by set the expression	Did not know or refuse	ed to answer	-
Site Inspection (Comple Public Records / Maps / Private Locator: (Nam Ground Penetrating Rad	ete Page 2 & Photo Document As-Builts e and Company) dar (GPR)	Marked Utilities & Utilit		 ,
Radiofrequency (RF Loc	Tips for Successful L	Itility Location (H&S Standard up (mark above grade utilities	d Section 5.6):	
Electromagnetic (EM)	1. Don't forget to look 2. Be on-site with Priv		ii wallalileu)	
Metal Detector	3. Ask Private Locator	s to "confirm" other's markings		
Soft Dig Methods	4. Select alternate/ba	ckup locations during clearance	e process	
Termination Depth	5. Mark out all known	utilities. Leave nothing to ques pickaxes - no digging bars - n	o shortcutting	
Potholing / Vacuum Extr	action 7. No excessive turning	ng or downward force of hand a	augers/shovels	
Air knife Hydro knife	8 Utilities may run in	or directly under asphalt/concr	ete	
Probing	9, Cleaning, grubbing,	and heavy equipment may da for Heavy Equipment near abo	mage snallow utilities?	
(Hand Auguring) >5	10, is Spotter needed	ioi moaty Equipment hour abo		
Trand Adguming				
Other:	UXO ((not)			
Marine Locator: (Name a	and Company)			









During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work):

A) Natural gas line present (evidence of a gas meter)? i) Feeder Lines to buildings or homes? B) Evidence of electric lines: i) Conduits to ground from electric meter or along wall? ii) Conduits from power poles running into ground? iii) Light poles, electric devices with no overhead lines? ves No iv) Overhead electric lines present? Marked? (See Section L) C) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? iii) Combined sewer /storm lines or multiple sewer lines? D) Evidence of sewer fystorm lines or multiple sewer lines? ii) Water meter on site or multiple water lines? iii) Fire hydrants in vicinity of work? iii) Irigation systems? (Sprinkler heads, valve boxes, controls in building) E) Evidence of storm drains: i) Queter down spouts going into ground F) Evidence of sterom drains: i) Gutter down spouts going into ground F) Evidence of telecommunication lines: i) Fire optic warning signs in areas? ii) Aboveground cable boxes or housings or wires in work area? Marked? Ves No Outherse of the communication lines: i) Frough tilities a lank vent present? ii) Product lines running to dispensers/buildings? If Yes, confirm the utility markings outside of structure/building majer up. I) Proposed excavation marked in white? I) Unclassed utilities / anomalies marked in pink? Ves No Verhead electrical conduit, pipe chases, cable trays, product lines? ves No Ves	Site	Inspection	Utility Color Codes	Pres	ent
B) Feeder Lines to buildings or homes? B) Evidence of electric lines: i) Conduits to ground from electric meter or along wall? ii) Conduits from power poles running into ground? iii) Light poles, electric devices with no overhead lines? iv) Overhead electric lines present? Marked? (See Section L) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? iii) Conduits from power poles running into ground? Feeden of sewer drains: ii) Restrooms or kitchen on site? iii) Combined sewer /storm lines or multiple sewer lines? Ves No D) Evidence of water lines: iii) Water meter on site or multiple water lines? iii) Vater meter on site or multiple water lines? iii) Vater meter on site or multiple water lines? iii) Open curbside or slotted grate storm drains ii) Open curbside or slotted grate storm drains iii) Open curbside or slotted grate storm drains iii) Ope	A)	Natural gas line present (evidence of a gas meter)?			
B) Evidence of electric lines: i) Conduits to ground from electric meter or along wall? ii) Conduits from power poles running into ground? iii) Light poles, electric devices with no overhead lines? ves No volverhead electric lines present? Marked? (See Section L) C) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? iii) Combined sewer /fstorm lines or multiple sewer lines? D) Evidence of water lines: i) Water meter on site or multiple water lines? ii) Water meter on site or multiple water lines? iii) Irigation systems? (Sprinkler heads, valve boxes, controls in building) Fire hydrants in vicinity of work? iii) Irigation systems? (Sprinkler heads, valve boxes, controls in building) Fire controls in vicinity of work? iii) Irigation systems? (Sprinkler heads, valve boxes, controls in building) Fire controls in vicinity of work? iii) Gutter down spouts going into ground F) Evidence of storm drains: ii) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: ii) Tank pit present, tank vent present? iii) Product lines running to dispensers/buildings? If Yes, confirm the utility markings outside of structure/building materd up. For the difference of exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building materd up. For the difference of telecommunication Lines - Look Up and MARK: i) Overhead electrical conduit, pipe chases, cable trays, product lines? ves No		i) Feeder Lines to buildings or homes?	TOHOW		
ii) Conduits from power poles running into ground? iii) Light poles, electric devices with no overhead lines? iv) Overhead electric lines present? Marked? (See Section L) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? merked? (See Section L) Devidence of sewer drains: iii) Combined sewer /storm lines or multiple sewer lines? Devidence of water lines: ii) Water meter on site or multiple water lines? Iii) Combined sewer /storm lines or multiple sewer lines? Devidence of water lines: I) Water meter on site or multiple water lines? Iii) Fire hydrants in vicinity of work? Iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Evidence of storm drains: I) Open curbside or slotted grate storm drains Ii) Open curbside or slotted grate storm drains Iii) Open curbside or slotted grate storm drains Ii) Open curbside or slotted grate storm drains Iii) Open curbside or slotted grate storm drains Ii) Open curbside or slotted grate storm drains Iii) Open curbside or slotted grate storm drains Ii) Open curbside or slotted grate storm drains Iii) Open curbside or slotted grate storm drains Iii) Open curbside or slotted grate storm drains Iii) Orended delities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building mater Inp. Yes No Ves No Ves No Ves No Ves No Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No Ves No	B)	Evidence of electric lines:	Red		
ii) Conduits from power poles running into ground? iii) Light poles, electric devices with no overhead lines? iv) Overhead electric lines present? Marked? (See Section L) C Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? D Evidence of sewer fsorm lines or multiple sewer lines? D Evidence of water lines: ii) Water meter on site or multiple water lines? iii) Fine hydrants in vicinity of work? iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) E Evidence of storm drains: i) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: 7 Evidence of telecommunication lines: 7 I) Fiber optic warning signs in areas? 8 No 9 Underground storage tanks: i) Tank pit present, tank vent present? ii) Proposed excavation marked in white? yes No 1) Proposed excavation marked in white? yes No 1) Overhead electrical conduit, pipe chases, cable trays, product lines? No Yes No Overhead Power lines in or near the work area? i) <50 kV within 10 ft. of work area? ii) >20 useriad Power lines in or near the work area? ii) >20 200 x30 kV within 25 ft. of work area? ii) >20 200 x30 kV within 25 ft. of work area? ii) >20 200 x30 kV within 25 ft. of work area? iv) >350 -500 kV within 35 ft. or work area? iv) >350 -500 kV within 35 ft. or work area? iv) >750 -100 creating a ground subsidence or change in vegetation? iii) Evidence of linear asphalt or concrete repair? ii) Evidence of linear ground subsidence or change in vegetation? iii) Unarked manholes or valve covers in work area? ves No Yes No Yes No Yes No			1100	Yes	No
iii) Light poles, electric devices with no overhead lines? iv) Overhead electric lines present? Marked? (See Section L) C) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? iii) Combined sewer /storm lines or multiple sewer lines? D) Evidence of water lines: i) Water meter on site or multiple water lines? ii) Water meter on site or multiple water lines? iii) Fire hydrants in vicinity of work? iii) Irine hydrants in vicinity of work? iii) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: i) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: i) Fiber optic warning signs in areas? ii) Aboveground cable boxes or housings or wires in work area? Marked? Ves No G) Underground storage tanks: i) Tank pit present, tank vent present? ii) Product lines running to dispensers/buildings? If Yes, confirm the utility markings outside of structure/building majerh up. Ves No I) Proposed excavation marked in white? Ves No I) Proposed excavation marked in white? Ves No Verhead Utilities / anomalies marked in pink? Ves No Verhead Power lines in or near the work area? i) Ves No Ves No Verhead Utilities / anomalies marked in pink? Ves No Verhead Power lines in or near the work area? ii) Overhead electrical conduit, pipe chases, cable trays, product lines? ves No ii) Overhead of lineins in or near the work area? ves No iii) Overhead of lineins in or near the work area? ves No iv) 350-500 kV within 15 ft. of work area? ves No iv) 350-500 kV within 25 ft. of work area? ves No V		ii) Conduits from power poles running into ground?			
iv) Overhead electric lines present? Marked? (See Section L) C) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? iii) Combined sewer; fstorm lines or multiple sewer lines? D) Evidence of water lines: i) Water meter on site or multiple water lines? ii) Water meter on site or multiple water lines? iii) Finydrants in vicinity of work? iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) E) Evidence of storm drains: i) Open curbside or slotted grate storm drains: ii) Gutter down spouts going into ground f) Evidence of telecommunication lines: ii) Fiber optic warning signs in areas? ii) Aboveground cable boxes or housings or wires in work area? Marked? f) Underground storage tanks: i) Tank pit present, tank vent present? ii) Product lines running to dispensers/buildings? If Yes, confirm the utility markings outside of structure/building mater up. Ves No 1) Proposed excavation marked in white? Ves No Ves		iii) Light poles, electric devices with no overhead lines?			
C) Evidence of sewer drains: i) Restrooms or kitchen on site? ii) Sewer cleanouts present? iii) Combined sewer /storm lines or multiple sewer lines? D) Evidence of water lines: i) Water meter on site or multiple water lines? ii) Water meter on site or multiple water lines? iii) Irigation systems? (Sprinkler heads, valve boxes, controls in building) E) Evidence of storm drains: ii) Open curbside or slotted grate storm drains ii) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: 7 (s) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: 7 (s) Open curbside or slotted grate storm drains ii) Gutter down spouts going into ground F) Evidence of telecommunication lines: 7 (s) Aboveground cable boxes or housings or wires in work area? Marked? 7 (s) Underground storage tanks: 1) Tank pit present, tank vent present? ii) Product lines running to dispensers/buildings? If Yes, confirm the utility markings outside of structure/boilding materiup. 7 (s) Overhead electrical conduit, pipe chases, cable trays, product lines? 7 (s) Overhead electrical conduit, pipe chases, cable trays, product lines? 7 (s) Overhead electrical conduit, pipe chases, cable trays, product lines? 7 (s) Overhead electrical conduit, pipe chases, cable trays, product lines? 8 (s) Overhead Power lines in or near the work area? 1) < 50 kV within 10 ft. of work area? 2		iv) Overhead electric lines present? Marked? (See Section	on I \		
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Date:	Nar	ne and Signature of person completing the short in	Carlotte Comment		TORR, Call PM
	Dat	e:	de byuh		

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving pre-

approval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL)

WITH A CONFIRMED RESPONSE









Soft DIG

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3/16/21

			DECIMINATION	VIAA	INTRIUCTIVE	WORK
THIS FORM MUST BE COMPLETED IN ENTIRETY	PRIOR	10	REGINNING	ANT	INTRUSIVE	WORK

	Aberdeen Proving Ground Preliminary Assessment/Site Inspection
Project Number:	02118216.3005.8AC00 Form Expiration Date: 3/30/2/
Form Completion Date: All utility markings must be refre	shed ≤15 days when work is ongoing. (15 business days post form completion date)
Pre-Field Work	#:
Ticket Expiration Date	(Review State Requirements)
Utility companies notified du	uting the One Can proceed
List any other utilities requir	ring notification: North
Private Locator Contacted	(Yes) No
Plan private utility clearance su	ubcontractor assignments, areas, required clearance equipment, depth of clearance in possible re-clear 811 markings to confirm utility locations.
Client provided utility maps	or "as built" drawings showing utilities?
in identifying I	completed on site, by staff who have a minimum of one year of field experience utilities. Review Check list with PM or designee prior to beginning intrusive work. rk in utility Tolerance Zone (<30-in.) requires pre-approval by Corporate H&S
	II IDs or Excavation Locations applicable to this clearance checklist:
APG-EGS-1-GW	APG-FUZL- 1-SW APG-BAF-S6-1-GW
Aph-Fuze-1-GW	APH-FUZE-1-SE APG-BAF-S6-1-50
One Call/"811" (Reliab	ence Required Prior to Starting any Subsurface Intrusive Work ble as a line of evidence when working in public right of way or easement)
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During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): **Utility Color Codes** Site Inspection Present A) Natural gas line present (evidence of a gas meter)? Yellow Yes No Feeder Lines to buildings or homes? Yes No B) Evidence of electric lines: Red Conduits to ground from electric meter or along wall? No Yes Conduits from power poles running into ground? Yes No iii) Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) Yes No C) Evidence of sewer drains: Green Restrooms or kitchen on site? Yes No Sewer cleanouts present? Yes No iii) Combined sewer /storm lines or multiple sewer lines? Yes No D) Evidence of water lines: Blue Water meter on site or multiple water lines? Yes No ii) Fire hydrants in vicinity of work? Yes No iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) Yes No E) Evidence of storm drains: Open curbside or slotted grate storm drains Ves No Gutter down spouts going into ground Yes No Evidence of telecommunication lines: Fiber optic warning signs in areas? Yes No Aboveground cable boxes or housings or wires in work area? Marked? Yes No Underground storage tanks: Tank pit present, tank vent present? Yes No Product lines running to dispensers/buildings? Yes No Do utilities enter or exit existing structures/buildings? If Yes, confirm the utility markings outside of structure/building match up. Yes No Proposed excavation marked in white? White Yes No Unclassed utilities / anomalies marked in pink? Yes No Overhead Utilities/Communication Lines - Look Up and MARK: Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No ii) Overhead fire sprinkler system? Yes No Overhead Power lines in or near the work area: < 50 kV within 10 ft. of work area? Yes No >50 - 200 kV within 15 ft. of work area? Yes No iii) >200-350 kV within 20 ft. of work area? Yes No iv) >350-500 kV within 25 ft. of work area? Yes No v) >500-750 kV within 35 ft. or work area? Yes No vi) >750-1000 kV within 45 ft. of work area? Yes No M) Other: Evidence of linear asphalt or concrete repair? Yes No ii) Evidence of linear ground subsidence or change in vegetation? Yes No iii) Unmarked manholes or valve covers in work area? Yes No iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? Yes No v) Utility color markings not illustrated in this checklist? Yes No vii) Operating heavy equipment on unpaved/unimproved ground; review Yes No equipment route for shallow utilities crossing it and modify if necessary. O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes No* PM or Designee Name: If no, STOP WORK, call PM Name and Signature of person completing the checklist: Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.





1. suilita

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE



3/17

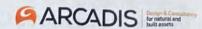
oject: Aberdeen P	roving Ground Preliminary Assessment/Site Inspection	
oject Number:	02118216.3005.8AC00	
orm Completion Date:	when work is ongoing. (15 business days post form completion date)	-
utility markings must be refreshed ≤15 days		11.40
re-Field Work equired: One Call or "811" notified 48	1-72 hours in advance of work? #: 20 - 114 49	70-11450
Ticket Expiration Date tility companies notified during the One	(Review State Requirements) 70 - 11453	70-1145
INFRA MAP	UXO (cora)	20-1144
miss utility	Soft DIZ	
ist any other utilities requiring notification	on: Noné	
		7
rivate Locator Contacted (es)	No ssignments, areas, required clearance equipment, depth of clearance	
eded, types of utilities. When possible re-c	clear 811 markings to confirm utility locations.	
	(C) No	
lient provided utility maps or "as built"	drawings showing utilities?	
ield Work - This must be completed or	n site, by staff who have a minimum of one year of field experience	APH-BLDG-E
in identifying utilities. Revie	ew Check list with PM or designee prior to beginning intrusive work.	1-101
lechanized intrusive work in utility T	Tolerance Zone (<30-in.) requires pre-approval by Corporate H&	s is
List Soil Boring / Well IDs or Exc	avation Locations applicable to this clearance checklist:	
mior con morning.		1 2
		APG-OLDG-
iph-Nobic-Road-1-GW	APG-BLDG-EADAD-1-6W	2- GW
196-Nobic-Road-1-GW	APG-BLOG-EAOGO-1-GW APG-WEIDE-I-GW/SO	2- GW
April - Road - 1 - GW APril - Blok - E 4081 - 1 - GW B Reliable Lines of Evidence Require	APG-BLDG-EADAD-I-GW APG-WEIDE-I-GW/50 ed Prior to Starting any Subsurface Intrusive Work of evidence when working in public right of way or easement) Pin flags/stakes Other None OR Maps/Drawings requested but not provided	2- GW
Reliable Lines of Evidence Require One Call/"811" (Reliable as a line of Utility Markings Present: Paint Client Provided Maps/Drawings	APG-610G-EAOAO-I-GW APG-WEIDE-I-GW/50 ed Prior to Starting any Subsurface Intrusive Work of evidence when working in public right of way or easement) Pin flags/stakes Other None OR Maps/Drawings requested but not provided offiliation(s)	2- GW
Reliable Lines of Evidence Require One Call "811" (Reliable as a line of Utility Markings Present: Client Provided Maps/Drawings Client Clearance Name(s)/A Interview(s): Name(s)/A	APCI- GLD CI-EAOA O -1-Ci-V APCI- WEIDE - I - Ci-V / 50 ad Prior to Starting any Subsurface Intrusive Work of evidence when working in public right of way or easement) Pin flags/stakes Other None OR Maps/Drawings requested but not provided affiliation(s) offiliation(s)	2- GW
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Reliable Lines of Evidence Require One Call/"811" (Reliable as a line of Utility Markings Present: Paint Client Provided Maps/Drawings Client Clearance Name(s)/A Interview(s): Name(s)/A Did person(s) interviewed indicate of Yes, depths provided:	APG- GLDG-EADAD-I-GW APG- WEIDE - I - GW / SD and Prior to Starting any Subsurface Intrusive Work of evidence when working in public right of way or easement) Pin flags/stakes Other None OR Maps/Drawings requested but not provided affiliation(s) depths of any utilities in the subsurface? Did not know or refused to answer	2- GW
Reliable Lines of Evidence Require One Call/"811" (Reliable as a line of Utility Markings Present: Paint Client Provided Maps/Drawings Client Clearance Name(s)/A Interview(s): Name(s)/A Did person(s) interviewed indicate of Yes, depths provided:	APG- GLDG-EADAD-I-GW APG- WEIDE - I - GW / SD and Prior to Starting any Subsurface Intrusive Work of evidence when working in public right of way or easement) Pin flags/stakes Other None OR Maps/Drawings requested but not provided affiliation(s) depths of any utilities in the subsurface? Did not know or refused to answer	2- GW
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Reliable Lines of Evidence Require One Call 1811 (Reliable as a line of Utility Markings Present: Paint Client Provided Maps/Drawings Client Clearance Name(s)/A Interview(s): Name(s)/A Did person(s) interviewed indicate of Yes, depths provided: Additional Comments: Site Inspection (Complete Page 2 Public Records / Maps / As-Builts	APCI- GLD CI-EAOA D-I-CW APCI- WEIDE - I - CW / SD ad Prior to Starting any Subsurface Intrusive Work of evidence when working in public right of way or easement) Pin flags/stakes Other None OR Maps/Drawings requested but not provided iffiliation(s) depths of any utilities in the subsurface? Did not know or refused to answer CST- DIG & Photo Document Marked Utilities & Utility Structures) inpany) SSCI DIG	2- GW
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During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work):

	must be marked properly prior to beginning subsurface in	trusive work):	I may 1	100
	Site Inspection	Utility Color Codes	Pres	
	A) Natural gas line present (evidence of a gas meter)?	Yellow	Yes	No
	i) Feeder Lines to buildings or homes?		Yes	No
	B) Evidence of electric lines:	Red		
	i) Conduits to ground from electric meter or along wall?		Yes	No
	ii) Conduits from power poles running into ground?		Yes	No
	iii) Light poles, electric devices with no overhead lines?		Yes	No
	iv) Overhead electric lines present? Marked? (See Section 1)	on L)	Yes	No
	C) Evidence of sewer drains:	Green		
	i) Restrooms or kitchen on site?		Yes	No
	ii) Sewer cleanouts present?		Yes	No
	iii) Combined sewer /storm lines or multiple sewer lines?		Yes	No
	D) Evidence of water lines:	Blue		
	i) Water meter on site or multiple water lines?		Yes	No
	ii) Fire hydrants in vicinity of work?		Yes	No
	iii) Irrigation systems? (Sprinkler heads, valve boxes, con	ntrols in building)	Yes	No
	E) Evidence of storm drains:	Green	1.50	
	i) Open curbside or slotted grate storm drains	Orccii	Yes	No
/	ii) Gutter down spouts going into ground	1	Yes	No
	F) Evidence of telecommunication lines:	Orange)	110
church AREA	i) Fiber optic warning signs in areas?	Ordrige	Yes	No
hered his	ii) Aboveground cable boxes or housings or wires in wo	rk area? Marked?	Yes	No
for UXO of	G) Underground storage tanks:			
1000	i) Tank pit present, tank vent present?		Yes	No
Milito	ii) Product lines running to dispensers/buildings?		Yes	No
	H) Do utilities enter or exit existing structures/buildings?		100	140
7	If Yes, confirm the utility markings outside of structure	building match up	Yes	No
	Proposed excavation marked in white?	(White	Yes	No
	J) Unclassed utilities / anomalies marked in pink?	Pink	Yes	No
· watton	K) Overhead Utilities/Communication Lines - Look Up and		165	INO
die lou	i) Overhead electrical conduit, pipe chases, cable trays		Yes	No
deel location	ii) Overhead fire sprinkler system?	, product intest	Yes	
10	L) Overhead Power lines in or near the work area:		res	No
	i) < 50 kV within 10 ft. of work area?		Van	
	ii) >50 - 200 kV within 15 ft, of work area?		Yes	No
	iii) >200-350 kV within 13 ft. of work area?		Yes	No
	iv) >350-500 kV within 25 ft. of work area?		Yes	No
	v) >500-750 kV within 35 ft, or work area?		Yes	No
			Yes	No
	vi) >750-1000 kV within 45 ft. of work area?		Yes	No
	M) Other:			
	i) Evidence of linear asphalt or concrete repair?		Yes	No
	ii) Evidence of linear ground subsidence or change in v	regetation?	Yes	No
	iii) Unmarked manholes or valve covers in work area?		Yes	No
	iv) Warning signs (Call Before you Dig, Look Up, etc.)	on or adjacent to site?	Yes	No
	v) Utility color markings not illustrated in this checklist?	i.e. Purple	Yes	No
	vii) Operating heavy equipment on unpaved/unimproved		Yes	No
	equipment route for shallow utilities crossing it and n		.00	140
	O) Utilities & Structures Checklist been reviewed by the PM	or Designee	Yes	No*
	PM or Designee Name:	5. 2 30igilio	* If no, STOP	
			,	
	Name and Signature of person completing the checklist:			

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL) WITH A CONFIRMED RESPONSE











Church AREA for UXO o いればいい

Ideal location



During the site inspection look for the following: ("YES" requires additional investigation and the utility must be marked properly prior to beginning subsurface intrusive work): Present **Utility Color Codes** Site Inspection No Yes A) Natural gas line present (evidence of a gas meter)? Yellow No Yes i) Feeder Lines to buildings or homes? B) Evidence of electric lines: No Yes i) Conduits to ground from electric meter or along wall? No Yes ii) Conduits from power poles running into ground? Yes No iii) Light poles, electric devices with no overhead lines? Yes No iv) Overhead electric lines present? Marked? (See Section L) C) Evidence of sewer drains: Green Yes No i) Restrooms or kitchen on site? No Yes ii) Sewer cleanouts present? No Yes iii) Combined sewer /storm lines or multiple sewer lines? D) Evidence of water lines: Yes No i) Water meter on site or multiple water lines? No Yes ii) Fire hydrants in vicinity of work? No Yes iii) Irrigation systems? (Sprinkler heads, valve boxes, controls in building) E) Evidence of storm drains: Green No Yes i) Open curbside or slotted grate storm drains No Yes ii) Gutter down spouts going into ground Evidence of telecommunication lines: No Yes i) Fiber optic warning signs in areas? No ii) Aboveground cable boxes or housings or wires in work area? Marked? Yes G) Underground storage tanks: Yes No i) Tank pit present, tank vent present? No Yes ii) Product lines running to dispensers/buildings? Do utilities enter or exit existing structures/buildings? Yes No If Yes, confirm the utility markings outside of structure/building match up No White Yes Proposed excavation marked in white? Yes No Unclassed utilities / anomalies marked in pink? Overhead Utilities/Communication Lines - Look Up and MARK: No Yes Overhead electrical conduit, pipe chases, cable trays, product lines? Yes No ii) Overhead fire sprinkler system? Overhead Power lines in or near the work area: < 50 kV within 10 ft. of work area? Yes No >50 - 200 kV within 15 ft. of work area? Yes No No iii) >200-350 kV within 20 ft. of work area? Yes iv) >350-500 kV within 25 ft. of work area? Yes No v) >500-750 kV within 35 ft, or work area? Yes No Yes No vi) >750-1000 kV within 45 ft. of work area? M) Other: i) Evidence of linear asphalt or concrete repair? Yes No ii) Evidence of linear ground subsidence or change in vegetation? Yes No iii) Unmarked manholes or valve covers in work area? Yes No iv) Warning signs (Call Before you Dig, Look Up, etc.) on or adjacent to site? Yes No Utility color markings not illustrated in this checklist? Yes No vii) Operating heavy equipment on unpaved/unimproved ground; review Yes No equipment route for shallow utilities crossing it and modify if necessary. No* O) Utilities & Structures Checklist been reviewed by the PM or Designee Yes

Name and Signature of person completing the checklist:

PM or Designee Name:

Do not perform mechanized intrusive work within 30 inches of a utility marking without receiving preapproval by Corporate H&S.

ALL UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION (EMAIL OR CALL)
WITH A CONFIRMED RESPONSE



If no, STOP WORK, call PM







cleved uxo



THIS FORM MUST BE COMPLETED IN ENTIRE	Y PRIOR TO BEGINNING ANY	INTRUSIVE WORK
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	Aberdeen Proving Ground Preliminary Assessment/Site Inspection 02118216.3005.8AC00
Project Number: Form Completion Date:	
	Form Expiration Date: 4/3/2↓ thed ≤15 days when work is ongoing. (15 business days post form completion date)
re-Field Work	(15 business days post form completion date)
	notified 48-72 hours in advance of work? #: 70 - 11449
Ticket Expiration Date	(Review State Requirements) 25 - 114 50
Itility companies notified dur	
INFRA MAP	Ux0(1000) Za-11447
mas utility	SOFI DIA
ist any other utilities requiring	ng notification: None
Private Locator Contacted	(Yes) No
lan private utility clearance sub	contractor assignments, areas, required clearance equipment, depth of clearance
eeded, types of utilities. When p	possible re-clear 811 markings to confirm utility locations.
Client provided utility maps o	r "as built" drawings showing utilities? (Yes) No
ield Work - This must be co	ompleted on site, by staff who have a minimum of one year of field experience
in identifying util	lities. Review Check list with PM or designee prior to beginning intrusive work.
Mechanized intrusive work	in utility Tolerance Zone (<30-in.) requires pre-approval by Corporate Ha
List Soil Boring / Well I	IDs or Excavation Locations applicable to this clearance checklist:
APH-BLOG-E4040-1-	
Aph-h-street -1-h	1/50
	Pfirit Pin flags/stakes Other None rawings OR Maps/Drawings requested but not provided Name(s)/Affiliation(s) Name(s)/Affiliation(s)
interview(e).	
Did person(s) interviewe	d indicate depths of any utilities in the subsurface?
Yes, depths provided	Did not know or refused to answer
Did person(s) interviewe Yes, depths provided Additional Comments	Did not know or refused to answer
Yes, depths provided	Did not know or refused to answer
Yes, depths provided Additional Comments	Did not know or refused to answer
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Site Inspection (Complete Public Records / Maps / Private Locator: (Name Ground Penetrating Radiofrequency (RF Loc) Electromagnetic (EM) Metal Detector Soft Dig Methods Termination Depth	Did not know or refused to answer step age 2 & Photo Document Marked Utilities & Utility Structures) As-Builts and Company) Soft Dig Tips for Successful Utility Location (H&S Standard Section 5.6): 1. Don't forget to look up (mark above grade utilities if warranted) 2. Be on-site with Private Utility Locators 3. Ask Private Locators to "confirm" other's markings 4. Select alternate/backup locations during clearance process 5. Mark out all known utilities. Leave nothing to question 6. No hammering - no pickaxes - no digging bars - no shortcutting
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Yes, depths provided Additional Comments Site Inspection (Complet Public Records / Maps / Private Locator: (Name Ground Penetrating Radia Radiofrequency (RF Loc) Electromagnetic (EM) Metal Detector Soft Dig Methods Termination Depth Potholing / Vacuum Extra Air knife Hydro knife Probing	Did not know or refused to answer St. Little Did te Page 2 & Photo Document Marked Utilities & Utility Structures) As-Builts and Company Soft Dig ar (GPR) Tips for Successful Utility Location (H&S Standard Section 5.6): 1. Don't forget to look up (mark above grade utilities if warranted) 2. Be on-site with Private Utility Locators 3. Ask Private Locators to "confirm" other's markings 4. Select alternate/backup locations during clearance process 5. Mark out all known utilities. Leave nothing to question 6. No hammering - no pickaxes - no digging bars - no shortcutting 7. No excessive turning or downward force of hand augers/shovels 8. Utilities may run in or directly under asphalt/concrete 9. Clearing, grubbing, and heavy equipment may damage shallow utilities.
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