ATTACHMENT A AREA I SURFACE SOIL BORING LOGS

OWNER:	ESI	BORING/WELL NO.:	A5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
· · · · · · · · · · · · · · · · · · ·		-	

L			750-0	J00 I			WELL 1-0-C ELEVATION:	NA	
	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL	DEPTH (FT)
	_ 2	DP	1020	NM	CL	100	-stiff red CLAY	CAP	2 —
	- 4 - 4 - 6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		4 —
	- 8 - 8						·		8 —
	10 12								10 —
	14 16						·		14 —
	18 								18 —
	— 20 - - — 22								20 —
	24 26								24 —
	28 28								28 —
	30	<u> </u>							30
	N O T E S	☆ -SAM GW-GRO HA-HAN	ES MILITAI PLE ANAL PUNDWATE D AUGER APPLICAI	_YZED DP- R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	UST SURED UBE	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	CLAY SAND PACK	N O T E S

R:EXPLOSIVESERVICE/SOIL_BORINGS/a-5

OWNER:	ESI	BORING/WELL NO.:	A3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1			

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SC	IL/GRAPHIC SYMBOL	;	DEPTH (FT)
☆	- - 2	DP	1030	NM	CL	100	-stiff red CLAY		CAP		2 —
	- 4						NOTE:				4 —
	_ 						BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				6 —
	_ 8									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 —
	_ 10										10 —
	_ 12										12 —
	_ 14 										14 —
	— 16 –										16 —
	— 18 –										18 —
	20										20 —
	22										22 —
	24 26										24 —
	28										28 —
	30										30
	N O T E S	☆ -SAM GW-GRO HA-HAN	ES MILITAI PLE ANAI JUNDWATE D AUGER APPLICAI	LYZED DP- :R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	OUST SURED OUBE	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL		CLAY SAND	, D PACK	N O T E S
	R:EXPLO	OSMESERVICE/SOI	L_BORINGS/A-	-3					<u>SE</u> I	VISO Îr	<u>ıc.</u>

OWNER:	ESI	BORING/WELL NO.:	A1
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
		-	

	DEPTH (FT)	SAMPLI METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SC	OIL/GRAPH SYMBOL	IC	DEPTH (FT)
☆	- - 2	DP	1040	NM	CL	100	-stiff red CLAY		CAP		2 —
	2						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				2 — 4 — 6 — 8 — 10 — 12 — 16 — 20 — 22 — 24 — 26 — 26 —
	28 - _ 30										28
	N O T E S	ALL TIME ☆ -SAMI GW-GRO HA-HANI NA-NOT	PLE ANAL UNDWATE D AUGER	YZED DP- R NM- ST-	-NO RECO -DIRECT P -NOT MEA -SHELBY T -TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL		CLA SAN SIL	ND PACK	N O T E S

R:EXPLOSIVESERVICE/SOIL_BORINGS/A-3

OWNER:	ESI	BORING/WELL NO.:	A1.6
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

_	DEPTH	SAMPL		PID	USCS	PERCENT	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL			DEPTI (FT)
-	(FT)	METHOD	TIME	READING	SYMBOL	RECOVERY	REMARKS	1///		//	(FT)
	_								CAP		
		DP	1050	NM	CL	100	-stiff red CLAY		L		_
۱	2										2 -
	-										
	4						NOTE:				4 -
	_						BOREHOLE WAS TERMINATED AT 2 FT.				
							BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				
	 6						ABANDONED ON A09031 20, 2013.)				6 -
	-										
	<u> </u>										8 -
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	12										12 -
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	16										16
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	18										18
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	20										20
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	22										22
	F										
	24										24
	26										26
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	28										28
	30										30
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	N		S MILITAR		NO RECO		DRILLING COMPANY: DEVONIAN GROUP		// alay		N
	0	11		YZED DP-			DRILLER NAME: CORY HEBERT		CLAY SAND	PACK	O T
	T E	13	UNDWATE D AUGER		-NOT MEA SHELBY 1		DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH	\dashv \mathbb{f}	SILT		' E
	S	II	APPLICA		TOTAL DE		SEMS, INC., REP.: GARY BYRD/BEN DUREL] "	للللن		s
							1				\mathbb{L}

R:EXPLOSIVESERVICE/SOIL_BORINGS/A1.6

OWNER:	ESI	BORING/WELL NO.:	C1
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1 "			

L	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPH SYMBOL	ic	DEPTH (FT)
	-X-17	MEINUU	IIME	NEADING	J. MUOL		11010 81100		CAP		` ',
⋩	- - 2	DP	1100	NM	CL	100	-stiff red CLAY				2 —
											-
	- 4						NOTE: BOREHOLE WAS TERMINATED AT 2 FT.				4 —
	- - 6						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				6 —
	-										_
	— 8 _										8 —
	— 10										10
	-										_
	— 12 –										12 —
	<u> </u>										14 —
	-										16 —
	— 16 –										-
	— 18										18 —
	_ 20										20 —
	-										-
	22										22 —
	24										24 —
	-										-
	26										26 —
	28	3									28 —
	30										30
	N	ALL TIMI	ES MILITA		-NO RECO		DRILLING COMPANY: DEVONIAN GROUP		///		N
	0 T	GW-GRO	DUNDWATE		-NOT MEA	SURED	DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT		CLA SAP	ND PACK	O T
	E S	11	D AUGER		-SHELBY 1 -TOTAL DE		DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL			.1	E S
	R:EXPLO	DSIVESERVICE/SO	H_BORINGS/C	1			<u>. L</u>			EMS()	nc.

OWNER:	ESI	BORING/WELL NO.:	C1.6
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

•	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPH SYMBOL	IC DEPTH (FT)
☆	_ 2	DP	1115	NM	CL	100	-stiff red CLAY	САР	2
	_ 4 _ 6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		4 —
	- 8 - 10								8 —
	12 14 								12 —
	16 18 								16 —
	20 								20 —
	- 24 - 26								24 — 26 — –
	28		ATI IIM 27	RY MP	-NO RECO)VFRY			28 — 30
	N O T E S		PLE ANAI UNDWATE D AUGER	LYZED DP- :R NM- ST-		PUST SURED FUBE	DRILLING COMPANY: DRILLER NAME: CORY HEBERT DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL	CL SA SIL	AY O ND PACK T

OWNER:	ESI	BORING/WELL NO.:	C3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1			

DEPTH (FT) SAMPLING NETHOD TIME READING SYMBOL RECOVERY SOIL CHARACTERISTICS & SOIL/GRAPHIC SYMBOL - 2 DP 1130 NM CL 100 -stiff red CLAY - 4 NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)	DEPTH (FT)
DP 1130 NM CL 100 -stiff red CLAY NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015)	2 -
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ARANDONED ON AUGUST 20, 2015)	11
	6 —
— 8 — 10 — 10	8 -
— 12 — 14 — 16	12 -
— 16 — 18 — 20	18 -
	22 -
	26 -
30	30
N ALL TIMES MILITARY NR-NO RECOVERY O	PACK T E S
REEXPLOSIVESERVICE/SOIL_BORINGS/C3	Solnc.

OWNER:	ESI	BORING/WELL NO.:	C5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1			

Di	EPTH (FT)	SAMPL	ING TIME	PID READING	USCS	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SC	IL/GRAPH SYMBOL	ic	DEPTH (FT)
	,	METHOD	IIME	NEADING	STMBOL	T.LOOVLICE	Ham HIIO		CAP	//\	
1		DP	1200	NM	CL	100	-stiff red CLAY				
	- 2	_									2 —
r											4 —
	_ 4						NOTE: BOREHOLE WAS TERMINATED AT 2 FT.				" _
	- 6						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				6 —
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L	— 10										10 —
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-	— 16										16 —
F	-										_
F	— 18										18 —
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r	— 20 —										20 —
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	— 22 -										22 —
	 24			1							24
L	- 24										
L	 26										26 —
-	-										_
-	— 28										28 —
	-										-
L	30										30
	N	ALL TIME			-NO RECC		DRILLING COMPANY: DEVONIAN GROUP	r	CLA	·Y	N
	O T	☆ -SAM GW-GRO		LYZED DP- :R NM-	-DIRECT P -NOT MEA		DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT		SAN	ND PACK	O T
	E	HA-HAN			SHELBY T		DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL] [SIL	Γ	E S
	S 	NA-NOT	APPLICA	DLE ID-	TOTAL DE	.F1П					3
	R:EXPLO	SMESERMICE/SOI	_BORINGS/C-	-5					SE	EMS Ir	nc.

OWNER:	ESI	BORING/WELL NO.:	E5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SC	OIL/GRAPH SYMBOL	lic	DEP (FT
_						atiff and CLAV		CAP		
— 2	DP	1215	NM	CL	100	-stiff red CLAY				2
-										
— 4						NOTE:				4 -
-						BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND				
— 6						ABANDONED ON AUGUST 20, 2015.)				6
-										
— 8 -										8 -
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— 26 L										26
28	3									28
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30	<u> </u>									30
N	11	ES MILITA		-NO RECO		DRILLING COMPANY: DEVONIAN GROUP		CL.	AY	N
O T	11.	IPLE ANAI DUNDWATE	LYZED DP- R NM-	-DIRECT F -NOT MEA		DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT		SA	ND PACK	O
E S	li ii	D AUGER		-SHELBY 1 -TOTAL DE		DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	_	SIL	.1	E
3	NA-NOT	AI FLICA		TOTAL DE		1				3

R:EXPLOSMESERMICE/SOIL_BORINGS/E-5

OWNER:	ESI	BORING/WELL NO.:	E-3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

·	DEPTH (FT)	1	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPH SYMBOL	IIC	DEPTH (FT)
☆		2	DP	1230	NM	@f GW	100	-top 8 inches consist of large PEBBLES >2 inches long with poorly sorted SAND and SILT grains. Second foot—light gray colored SILTY layer with Fe particals. grades into dark brown, hard, dry.	САР		2 —
	- - - -	6 8						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			6 — 8 — 10 —
		12 14 16									12 — - 14 — - 16 — - 18 —
		20 - 22 24									20 — - 22 — - 24 —
	_	26 28 30									26 —
	N O T E S)	☆ -SAM GW-GRO HA-HAN	ES MILITAI IPLE ANAL DUNDWATE D AUGER APPLICAI	_YZED DP- R NM- ST-	-NO RECO -DIRECT P -NOT MEA SHELBY T -TOTAL DE	UST SURED UBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL	CL SA SIL	ND PACK	N O T E S
	R:E	XPLOS	EMESERMICE/SOI	IL_BORINGS/E-	-3				SE	EMS Ir	nc.

OWNER:	ESI	BORING/WELL NO.:	G1
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

[i	DEPTH	SAMPL	ING	PID	USCS	PERCENT	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPHIC	DEPTH (FT)
H	(FT)	METHOD	TIME	READING	SYMBOL	RECOVERY	REMARKS	1//	SÝMBOL CAP	(+1)
	- 2	DP	1240	NM	CL	100	—top 8 inches, loose PEBBLES. Second foot—gray CLAY turning brown			2 -
	4 -									4 —
	- 6 - 8						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			8 —
	- 10 -									10 —
	12 14	-								12 -
	– — 16									16 -
	_ 18 _									18 -
	— 20 - - — 22									20 -
	_ 24 									24 -
	26 									26 -
	28									30
	N O T E S	11	PLE ANAI UNDWATE D AUGER	LYZED DP- .R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY TOTAL DE	Pust Asured Tube	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL		CLAY SAND F	PACK N O T E S

R:EXPLOSIVESERMCE/SOIL_BORINGS/G1

OWNER:	ESI	BORING/WELL NO.:	E1
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED): _	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
"		·	

DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL	DEPT (FT
							CAP	
_ 2	DP	1250	NM	CL	100	-stiff gray CLAY to 2' trending to red		2 -
_								
4								4 -
_								
— 6						NOTE.		6 -
-						NOTE: BOREHOLE WAS TERMINATED AT 2 FT.		
8						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		8 -
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10 								'
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24								24
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26								26
28								28
30								30
N		ES MILITA		-NO RECO		DRILLING COMPANY: DEVONIAN GROUP	CLAY	N O
0 T	11	IPLE ANAI OUNDWATE	LYZED DP- IR NM-	-DIRECT F -NOT MEA		DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT	SAND PACK	Т Т
E S	11	D AUGER APPLICA		-SHELBY ⁻ -TOTAL DE		DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	SILT	E
٥		AI LIOA	JEL 10-	. OTAL DL	- 111	1		

R:EXPLOSIVESERMCE/SOIL_BORINGS/E1

OWNER:	ESI	BORING/WELL NO.:	G3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED): _	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPH SYMBOL	(FT)
☆	_ 2	DP	1300	NM	SP / CL	100	-top foot: 0-6 inches: dry SANDY SILT, brown with patches 6-12 inches: poorly sorted SANDS and PEBBLES up to 1-1/2 inch long.	CAP	2 —
	4 6 						—second foot: CLAY—ISH SILT with some SAND pockets, red—brown mainly iwth some light gray		6 —
	- 8 - 10						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		8 —
	— 12 —								12 —
	- - 16 -								16 —
	- 18 - 20 								20 —
	— 22 - — 24								22 —
	26 28								26 — - 28 —
	30								30
	N O T E S	ALL TIME ☆ -SAM GW-GRO HA-HANI NA-NOT	PLE ANAI UNDWATE D AUGER	LYZED DP- :R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL	CL SAI	ND PACK T

OWNER:	ESI	BORING/WELL NO.:	G5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED): _	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SC	IL/GRAPHI SYMBOL	c	DEPTH (FT)
☆	- 2 - 4	DP	1450	NM	Sm CL	100	-top foot: brittle CLAY SILT with minor amounts of SAND. Mainly gray SILT with pockets of red and orange color -second foot: dense gray SILTY CLAY with numerous red and orange pockets of CLAY		CAP		2 —
	- 6 - 8 - 10						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				6 — 8 — 10 —
	12 14 16										12 — 14 — 16 —
	- 18 - 20										18 —
	22 24 26										22 — 24 — 26 —
	_ 28 _ 30										28 —
	N O T E S	ALL TIME ☆ -SAM GW-GRO HA-HANI NA-NOT	PLE ANAI UNDWATE D AUGER	LYZED DP- :R NM- ST-	-NO RECC -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL		CLA SAN SILT	ID PACK	N O T E S

R:EXPLOSIVESERVICE/SOIL_BORINGS/G5

OWNER:	ESI	BORING/WELL NO.:	H4 MS/MSD
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

	DEPTI (FT)	- -	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GI SYM	RAPHIC BOL	DEPTH (FT)
☆		2	DP	1500	NM	CL	100	-top foot: gray-brown SILT layer 0-4 inches 4-12 inches: gray SILTY CLAY with red-orange pockets and nodules -second foot: gray CLAY with red-orange nodules	CA		2 —
	-	6 8						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			6 — 8 —
	-	10									10 —
	-	14									14 —
		18 20 -									18 —
		22 24									22 —
		26 28									26 —
	1 (E	ALL TIME ☆ -SAM GW-GRO HA-HAN	ES MILITA MPLE ANA DUNDWATE D AUGER APPLICA	LYZED DP- :R NM- ST-	-NO RECC -DIRECT F -NOT MEA SHELBY 1 -TOTAL DE	OUST SURED OUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL		CLAY SAND PACK	30 N O T E S
	R:	XPL0	SIVESERMICE/SO	II_BORINGS/H	•					SEMS	<u>1C.</u>

OWNER:	ESI	BORING/WELL NO.:	15
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:		WELL T-O-C ELEVATION:	NA
1			

DEP1	TH	SAMPLI METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPHIC SYMBOL	2	DEPTH (FT)
7 -	2	DP	1600	NM	CL	100	-first foot: gray SILTY CLAY with minor red-orange modules -second foot: dark gray CLAY with red-orange nodules		CAP		2 —
-	6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				6 —
-	10	ļ									8 — 10 — 12 —
-	14										14 —
-	· 18 · 20										18 —
-	- 22										22 -
	- 26										26 -
		ALL TIME ☆ -SAM GW-GRO HA-HANI	ES MILITAF IPLE ANAL DUNDWATE D AUGER APPLICAE	_YZED DP- R NM- ST-	-NO RECO -DIRECT P -NOT MEA SHELBY T -TOTAL DE	PUST SURED FUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL		CLAY SANI	D PACK	30 N O T E S
L	:EXPLOS	IVESERVICE/SOI	L_BORINGS/15						<u>S</u> E	MS [®] Ir	<u>ıc.</u>

OWNER:	ESI	BORING/WELL NO.:	К3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
l "			

DEPTH (FT)		SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPHI	C	DEPTH (FT)
	2	DP	1610	NM	CL	100	-gray-tan SILTY CLAY, red-orange Fe nodules throughout		CAP		2 —
<u></u>	4										4 —
_	6		,				NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND				6 —
- ;	8						ABANDONED ON AUGUST 20, 2015.)				8 —
<u> </u>	0										10 —
<u> </u>	2										12 -
-	4										14 -
_	16										16 -
_	20										20 -
	22										22 -
	24										24 -
_ :	26										26 -
- 2	28										28 -
N	- 1	ALL TIME			-NO RECO		DRILLING COMPANY: DEVONIAN GROUP		CLA	Y	N 0
O T E S		GW-GRO	PLE ANAI JUNDWATE D AUGER APPLICA	ST-	-DIRECT F -NOT MEA -SHELBY T -TOTAL DE	ASURED TUBE	DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL			ID PACK	O T E S

R:EXPLOSIVESERMICE/SOIL_BORINGS/K3

OWNER:	ESI	BORING/WELL NO.:	K5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
		_	

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SC	IL/GRAPHI SYMBOL	ic	DEPTH (FT)
☆	_ 	DP	1620	NM	CL	100	-very fine SANDY SILTY CLAY, tan brown color, red-orange nodules throughout		CAP		2 —
	4 6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				4 —
	- 8 - 10 -	·									8 —
	12 14 16										14 —
	- 18 - 20										18 —
	22 24										22 —
	_ 26 _ 28										26 — - 28 —
	30										30
	N O T E S	☆ -SAM GW-GRO HA-HAN	S MILITA PLE ANAI UNDWATE D AUGER APPLICA	_YZED DP- R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL		CLA SAN SIL	ND PACK	N O T E S

R:EXPLOSMESERMICE/SOIL_BORINGS/K5

OWNER:	ESI	BORING/WELL NO.:	K1
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
"			

·	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPHIC SYMBOL	DEPTH (FT)		
☆	_ 2 	DP	1645	NM	CL	100	-first foot: 0-6 inches: CLAY-ISH SILT, tan brown -6-24 inches: gray-brown SILTY CLAY with red-orange nodules		CAP	2 —		
	4 - 6 6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			6 —		
	- 8 - 10 -									8 —		
	12 14									12 —		
	16 18									16 —		
	20 									20 —		
	24 									24 —		
	26 28 									28 —		
	30	<u> </u>						<u> </u>		30		
	N O T E S	☆ -SAM GW-GRO HA-HAN	ES MILITAI PLE ANAI PUNDWATE D AUGER APPLICA	_YZED DP- R NM- ST-	-NO RECC -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	UST SURED UBE	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL		CLAY SAND PACK SILT	N O T E S		
		KPI OSAFSFRACE /SOIL BORINGS /K1										

OWNER:	ESI	BORING/WELL NO.:	11
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1 "			

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL	DEPTH (FT)		
☆	_ 2	DP	1700	NM	CL	100	-gray-brown SILTY CLAY with red-orange nodules throughout	CAP	2 —		
	2						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		2 - 4 10 - 12 14 16 18 20 22 24 26 28 - 28 28 28 28 28 28 -		
	30	T			NO BECC	V/EDV			30 N		
	N O T E S	11	PLE ANAI UNDWATE D AUGER	LYZED DP- :R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY TOTAL DE	PUST ASURED TUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT CORY HEBERT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL	CLAY SAND	0		
1											

OWNER:	ESI	BORING/WELL NO.:	M1 MS/MSD
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPHIC SYMBOL		DEPT (FT)
		1715	NM	CL	100	—tan—grey SILTY—CLAY with orange—red pockets of CLAY		CAP		
2 	DP	1/15	INM	UL.	100					2 -
- 4						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND				4 -
_ 6						ABANDONED ON AUGUST 20, 2015.)				6 -
- 8										8 -
_										
10 -										10 -
12 										12 ·
14										14
- 16										16
- 18										18
_ '0										
20 										20
22										22
24										24
- 26										26
_										20
28 										28
30	11	ES MILITAI	RY NR-	-NO RECO	OVERY					30 N
O T	☆ -SAM GW-GRO	IPLE ANAI DUNDWATE	LYZED DP- IR NM-	-DIRECT F -NOT MEA	PUST ASURED	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT		CLAY SANI SILT	D PACK	0 T
E	HA-HAN	D AUGER	ST-	SHELBY "	TUBE	DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	— Ц	шш 3"сі		E

R:EXPLOSIVESERVICE/SOIL_BORINGS/M1

OWNER:	ESI	BORING/WELL NO.:	N2
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1			

L		······································	/30-0							
	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	IL/GRAPHIC SYMBOL	DEPTH (FT)
7	- - 2	DP	0800	NM	CL	100	-first foot: tan-gray SILTY layer with very fine SAND and CLAY -second foot: tan-gray CLAY with red-orange		CAP	2 —
	- - 4 -						nodules NOTE: BOREHOLE WAS TERMINATED AT 2 FT.			4 —
	— 6 - 8 - 8						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			8 — -
	— 10 - — 12									10 —
	14 16									14 —
	_ 18 									18 -
	— 20 – — 22									20 -
	24									24 -
	- 26 - 28 -									28 -
	30	11								30
	N O T E S	☆ -SAM GW-GRO	UNDWATE D AUGER	_YZED DP- :R NM- :ST-	-NO RECC -DIRECT F -NOT MEA -SHELBY T -TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL		CLAY SAND PACK	N O T E S

R:EXPLOSIVESERVICE/SOIL_BORINGS/N2

OWNER:	ESI	BORING/WELL NO.:	м3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:		WELL T-O-C ELEVATION:	NA

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIO SYMBOL	DEPTH (FT)
☆	_ 2	DP	0815	NM	CL	100	—tan brown SILTY CLAY with very fine sand present as well as red and orange CLAY nodules	CAP	2 —
	- 4								4 —
	- - 6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		6 —
	- 8						ABANDONED ON AUGUST 20, 2013.)		8 —
	10 								10 —
	— 12 –								12 —
	- 14 - 16								14 —
	- - 18								18 —
	_ 20								20 —
									22 —
	24								24 —
	26								26 —
	28								28 —
	N O T E S	ALL TIME ☆ -SAM GW-GRO HA-HAN	ES MILITA IPLE ANAI DUNDWATE D AUGER APPLICA	LYZED DP- :R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY -	Pust Asured Tube	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	CLA' SAN SILT	N O D PACK T

OWNER:	ESI	BORING/WELL NO.:	L4
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/17/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

SAMPLING PID DESCOVERY SOIL CHARACTERISTICS & SOL/GRAPHIC CITY CITY	DEDTIL								
DP 0840 NM CL 100 CL 100 DP 0840 NM NM NM NM NM CL 100 DP 0840 NM	DEPTH (FT)			PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SYMBOL	(FT
A	- - 2	DP	0840	NM	CL	100	poorly sorted coarse to fine brown and orange SAND grains, poorly sorted with pebbles	CAP	2 -
BOREHOLE WAS TERMINATED AT 2 FT. BCS., BORE HOLE WAS PULGED AND ABANDONED ON AUGUST 20, 2015.)	<u> </u>	-					dense gray CLAY with minor		4 -
8	- - 6						BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND		6 -
12	- 8						ABANDONED ON AUGUST ZU, ZUTS.)		8 -
14	_								
18 -	-								
20	16								16
Under the state of the state o	18								18
- 24 - 26 - 28 - 30 N ALL TIMES MILITARY NR-NO RECOVERY O	-				,				
- 26 - 28 - 30 N ALL TIMES MILITARY NR-NO RECOVERY ↑ SAMPLE ANALYZED DP-DIRECT PUST T GW-GROUNDWATER NM-NOT MEASURED T E HA-HAND AUGER ST-SHELBY TUBE S NA-NOT APPLICABLE TD-TOTAL DEPTH DRILL DIAM. & METH.: SEMS, INC., REP.: SEMS, INC., REP.: SEMS, INC., REP.: 28 - 30 DEVONIAN GROUP CORY HEBERT 6620 DT SAND PACK T SILT E GARY BYRD/BEN DUREL SILT	-								
N ALL TIMES MILITARY NR-NO RECOVERY O ☆ -SAMPLE ANALYZED DP-DIRECT PUST GW-GROUNDWATER NM-NOT MEASURED E HA-HAND AUGER ST-SHELBY TUBE S NA-NOT APPLICABLE TD-TOTAL DEPTH DRILLING COMPANY: DEVONIAN GROUP CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL S A O CLAY SAND PACK T GARY BYRD/BEN DUREL S S									26
N ALL TIMES MILITARY NR—NO RECOVERY O ☆—SAMPLE ANALYZED DP—DIRECT PUST GW—GROUNDWATER NM—NOT MEASURED E HA—HAND AUGER ST—SHELBY TUBE S NA—NOT APPLICABLE TD—TOTAL DEPTH DRILLING COMPANY: DEVONIAN GROUP CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM. & METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL S A	28	3							28
O T GW-GROUNDWATER NM-NOT MEASURED DRILLING COMPANY: DEVONIAN GROUP E HA-HAND AUGER ST-SHELBY TUBE S NA-NOT APPLICABLE TD-TOTAL DEPTH DRILLING COMPANY: DEVONIAN GROUP CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL S CLAY O CAY SAND PACK T SILT E SEMS, INC., REP.: GARY BYRD/BEN DUREL S	30								30
R:EXPLOSMESERACE/SOIL_BORINGS/L4	O T E	☆ -SAM GW-GRO HA-HAN	IPLE ANAI DUNDWATE ID AUGER	_YZED DP- R NM- ST-	-DIRECT F -NOT MEA -SHELBY 1	PUST SURED TUBE	DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH	ー 「ジジズ SA	AY O ND PACK T T
	R:EXPL	II DSMESERMCE/SO	IL_BORINGS/L4				1	CI	=MS/Inc

OWNER:	ESI	BORING/WELL NO.:	M5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1 "			

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	OIL/GRAPHI SYMBOL	С	DEPTH (FT)
∕₹	- - 2	DP	0850	NM	CL	100	-tan-gray SILTY CLAY with some very fine SAND, orange nodules present		CAP		2 —
	- 4 - 6 - 8						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				4 — 6 — 8 —
	— 10 — 12 — 14										10 —
	— 16 — 18 — 20										16 —
	22 24 26										22 —
	28										28 —
	N O T E S	☆ -SAM GW-GRO HA-HAN	ES MILITA PLE ANA PUNDWATE D AUGER APPLICA	LYZED DP- R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY 1 -TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL		CLA SAN SILT	ID PACK	N O T E S

R:EXPLOSIVESERVICE/SOIL_BORINGS/M5

OWNER:	ESI	BORING/WELL NO.:	P0.7
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

CAP /	DEP (FT
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OWNER:	ESI	BORING/WELL NO.:	Q-0.4
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:		WELL T-O-C ELEVATION:	NA
"		-	

	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL	DEPTH (FT)
☆	_	DP	0920	NM	CL	100	-SILTY red and gray CLAY, primarily red-orange	CAP	
	— 2 –	UF	0320	IAIVI	OL.	100	NOTE: BOREHOLE WAS TERMINATED AT 2 FT.		2 —
	4 						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		4 —
	— 6 –								6 —
	- 8 -								8 —
	10								10 —
	— 12 –								12 —
	14								14 —
	<u> </u>								16 —
	18								18 —
	20								20 —
	22								22 —
	24								24 —
	26								26 —
	28	3							28 —
	30								30
	N O T E	☆ -SAM GW-GRO	ES MILITA PLE ANAI JUNDWATE D AUGER	LYZED DP- R NM-	-NO RECC -DIRECT P -NOT MEA -SHELBY T	PUST SURED	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH	CLAY SAND PACI	N O T E
	S	NA-NOT	APPLICA	BLE TD-	TOTAL DE	PTH	SEMS, INC., REP.: <u>GARY BYRD/BEN DUREL</u>	1	S

SOIL BORING AND WELL CONSTRUCTION LOG BORING/WELL NO .: _ESI P0.2 OWNER: FACILITY#: CAMP MINDEN DATE COMPLETED: 08/18/2015 ADDRESS: AREA I DISPOSAL SITE GW DEPTH (ENCOUNTERED): GW DEPTH (STATIC): CITY, STATE: NA MINDEN, LOUISIANA PROJECT ID#: __750-0001 WELL T-O-C ELEVATION: NA DEPTH SAMPLING PID USCS PERCENT (FT) METHOD TIME READING SYMBOL RECOVERY SOIL CHARACTERISTICS & REMARKS SOIL/GRAPHIC SYMBOL DEPTH (FT)

(FT)	METHOD	TIME	READING	SYMBOL	RECOVERY	REMARKS		SYMBOL		(FT)
				SP /		-top soil:		CAP		
-				/	400	dark brown SILT for first 8 inches		Ţ		7
— 2	DP	0940	NM	/ CL	100	-poorly sorted coarse SAND >2 cm long mixed with fine SAND 4 inches	$\angle \angle 4$	-		2 —
.						long				4
						-remainder is a red SILT layer with				4
- 4						poorly very fine SAND and minor CLAY present				4
						CEAT present				4
- 6										6 —
.						NOTE:				_
						BOREHOLE WAS TERMINATED AT 2 FT.				_
- 8						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)				8 —
-						7.B/11.B61128 611 7.66661 26, 2616.7				_
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 26										26 —
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30							<u> </u>			30
k I	ALL TIME	S MILITAI	RY NR-	NO RECO	VERY					N
N			YZED DP-			DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT	-	CLA		0
N 0	14 5,									
l	GW-GRO	UNDWATE		-NOT MEA		DRILL RIG TYPE: 6620 DT	二 降	2.3	D PACK	Т
0	GW-GRO	UNDWATE D AUGER APPLICA	ST-	-NOT MEA SHELBY 1 TOTAL DE	UBE			SILT		T E S

OWNER:	ESI	BORING/WELL NO.:	00.2
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA

	PROJE	CT ID#:	750-0	0001			WELL I=0=C ELEVATION:	NA	
•	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL	DEPTH (FT)
☆	_ 2 _ 2 _ 4	DP	1010	NM	CL	100	-top 6 inches: SANDY SILT, tan—orange in color -6—24 inches: SANDY CLAY, primarily orange in color with numerous pebble sized CLAY throughout	CAP	2 —
	- 6 - 8						NOTES: 1) COLLECTED ADDITIONAL SAMPLES FOR CLIENT AND EXTRA ANALYSIS 2) BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		6 — 8 — 10 —
	10 12 14								12 —
	- 16 - 18 - 20								18 —
	22 24 26								22 — 24 — 26 —
	28 30		TC AND ITA	DV NB-	NO BECC	WEDV			28 — 30
	N O T E S	☆ -SAM GW-GRO HA-HAN		_YZED DP- R NM- ST-	NO RECC DIRECT F NOT MEA SHELBY 1 TOTAL DE	PUST SURED TUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL	CLAY SAND PAC	0

R:EXPLOSIVESERVICE/SOIL_BORINGS/00.2

OWNER:	ESI	BORING/WELL NO.:	P-0.4 MS/MSD
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1 "		_	

DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOI	L/GRAPHIC SYMBOL	DEPTH (FT)
☆ -	DP	1030	NM	SC	100	orange and gray CLAY SILT layers, primarily orange and periodically has very fine SAND present		CAP	2 —
	2 4 6 8 20 22 24 26 28 30					NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			4 — 6 — 8 — 10 — 12 — 14 — 16 — 20 — 22 — 24 — 26 — 28 — 30
N O T E	11	PLE ANAI UNDWATE D AUGER	LYZED DP- :R NM- ST-	-NO RECO -DIRECT F -NOT MEA -SHELBY T	PUST ASURED FUBE	DRILLING COMPANY: DRILLER NAME: DRILL RIG TYPE: DRILL DIAM.& METH.: SEMS, INC., REP.: DEVONIAN GROUP CORY HEBERT 6620 DT 2 INCH DIRECT PUSH GARY BYRD/BEN DUREL		CLAY SAND PACK	N O T E S
R:E	PLOSMESERMCE/SOI	L_BORINGS/P-	-0.4					SEMS	Inc

OWNER:	ESI	BORING/WELL NO.:	H2
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED): _	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:		WELL T-O-C ELEVATION:	NA
1 "			

DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC SYMBOL	C DEP
-	DP	1300	NM	SC SP	100	-first foot: CLAY poor SILT with some fine SAND, orange-light brown in color	CAP	
_ 2					-	—2nd foot: extremely poorly sorted orange and gray SAND		2
- 4 - 6						NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND		6
- 8						ABANDONED ON AUGUST 20, 2015.)		8
- 10								10
- 12 		T						12
14 								14
16 -								16
18 								18
— 20 —								20
— 22 - — 24								22
_ _ 26								26
_ 28								28
30								30
N O T E	☆ -SAM GW-GRO HA-HAN	ES MILITAI IPLE ANAL DUNDWATE ID AUGER	LYZED DP- :R NM- :ST-	-NO RECO -DIRECT P -NOT MEA -SHELBY T	PUST ASURED FUBE	DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	CLA* SAN SILT	D PACK T

R:EXPLOSMESERMCE/SOIL_BORINGS/H2

OWNER:	ESI	BORING/WELL NO.:	B2.3
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
			

_	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHI SYMBOL	C DEPTH (FT)
☆	_						gray brown orange SILTY CLAY	САР	
	_ 2	DP	1320	NM	CL	100			2 —
	-						NOTE:		
	 						BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)		4 -
	_ 6						ADANDONED ON AUGUST 20, 2013.)		
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	-					made of the state			
	- 10 -			-					10 —
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	16								16 —
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	20								20 —
	22								22 —
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	24								24 —
	26								26 —
	-								
	28								28 —
	30								30
	N	ALL TIME	S MILITAI	RY NR-	-NO RECC	VERY	DRILLING COMPANY. DEVONIAN GROUP	P 7 7 3	N
	0 T	11	PLE ANAI	LYZED DP-	-DIRECT P -NOT MEA		DRILLING COMPANY: DEVONIAN GROUP		ID PACK T
	E S	11	D AUGER	ST-	SHELBY T		DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL	SIL"	F E S
		101							

R:EXPLOSIVESERVICE/SOIL_BORINGS/B2.3

OWNER:	ESI	BORING/WELL NO.:	E 6.5
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1 "		_	

Ldark brown SANDY SILT for 6	L										
2		DEPTH (FT)			PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SO	SYMBOL	DEPTH (FT)
BORCHOLE WAS TERMINATED AT 2 FT. BOSS. BORCH HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.) 10	☆	_ 2	DP	1345	NM	CL	100	inches then CLAY with		CAP	2 -
O A SAMPLE ANALYZED DP-DIRECT PUST CORY HEBERT CORY HERE CORY HEBERT CORY HERE CORY HE		- 4 - 6 - 8 - 10 - 12 - 14 - 16 - 20 - 22 - 24 - 26 - 30		TO MILITARY	DY AID	NO BECC	N/ED/	BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			10 12 14 16 20 22 24 26 28 30
R:EXPLOSMESERVICE/SOIL_BORINGS/E 6.5		O T E	☆ -SAM GW-GRO HA-HAN	PLE ANAL DUNDWATE D AUGER	_YZED DP- R NM- ST-	-DIRECT F -NOT MEA -SHELBY 1	PUST SURED TUBE	DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH		SAND I	PACK T E
		R:EXPLO	SMESERVICE/SOI	L_BORINGS/E	6.5			•		SEM	Solnc.

OWNER:	ESI	BORING/WELL NO.:	F 7.5 MS/MSD
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
1			

L	DEPTH (FT)	SAMPL METHOD	ING TIME	PID READING	USCS	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOIL/GRAPHIC DE SYMBOL ((
☆							gray and brown-orange SANDY SILT	CAP			
~	_ 2	DP	1400	NM	SM	100					
	_										
	4						NOTE:		4		
	_						BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND				
	<u> </u>						ABANDONED ON AUGUST 20, 2015.)		6 —		
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	14								14 —		
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	30	П			NO 5555	L			II		
	N 0	11	ES MILITAI IPLE ANAI	RY NR- LYZED DP-	-NO RECC -DIRECT F		DRILLING COMPANY: DEVONIAN GROUP DRILLER NAME: CORY HEBERT	CLA			
	T	11	OUNDWATE D AUGER		-NOT MEA -SHELBY ⁻		DRILL RIG TYPE: 6620 DT DRILL DIAM.& METH.: 2 INCH DIRECT PUSH	SAN	ND PACK T		
	S	11	APPLICA		-TOTAL DE		SEMS, INC., REP.: GARY BYRD/BEN DUREL		s		
		11									

R:EXPLOSMESERMICE/SOIL_BORINGS/F 7.5

OWNER:	ESI	BORING/WELL NO.:	13
FACILITY#:	CAMP MINDEN	DATE COMPLETED:	08/18/2015
ADDRESS:	AREA I DISPOSAL SITE	GW DEPTH (ENCOUNTERED):	NA
CITY,STATE:	MINDEN, LOUISIANA	GW DEPTH (STATIC):	NA
PROJECT ID#:	750-0001	WELL T-O-C ELEVATION:	NA
••			

DEPTH (FT)	SAMPLII METHOD	NG TIME	PID READING	USCS SYMBOL	PERCENT RECOVERY	SOIL CHARACTERISTICS & REMARKS	SOI	IL/GRAPHIC SYMBOL	DEPTH (FT)
-						-gray and brown to orange SANDY SILT		CAP	_
_ 2	DP	1430	NM	SM	100			ЩШШ	∥ 2 —
-						NOTE: BOREHOLE WAS TERMINATED AT 2 FT.			-
4						BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)			4 -
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14									14 —
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24									24 -
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26									26 -
28									28 -
30									30
N	ALL TIMES		RY NR- YZED DP-	-NO RECC		DRILLING COMPANY: DEVONIAN GROUP		CLAY	N O
O T	GW-GROU	JNDWATE	R NM-	-NOT MEA	SURED	DRILLER NAME: CORY HEBERT DRILL RIG TYPE: 6620 DT		SAND PAC	К∥т
E S	NA-NOT			SHELBY 1		DRILL DIAM.& METH.: 2 INCH DIRECT PUSH SEMS, INC., REP.: GARY BYRD/BEN DUREL			E S
R:EXPLO	SMESERMICE/SOIL	_BORINGS/13				1		SEMS()	Inc