AE Order Number Banner

Report Description

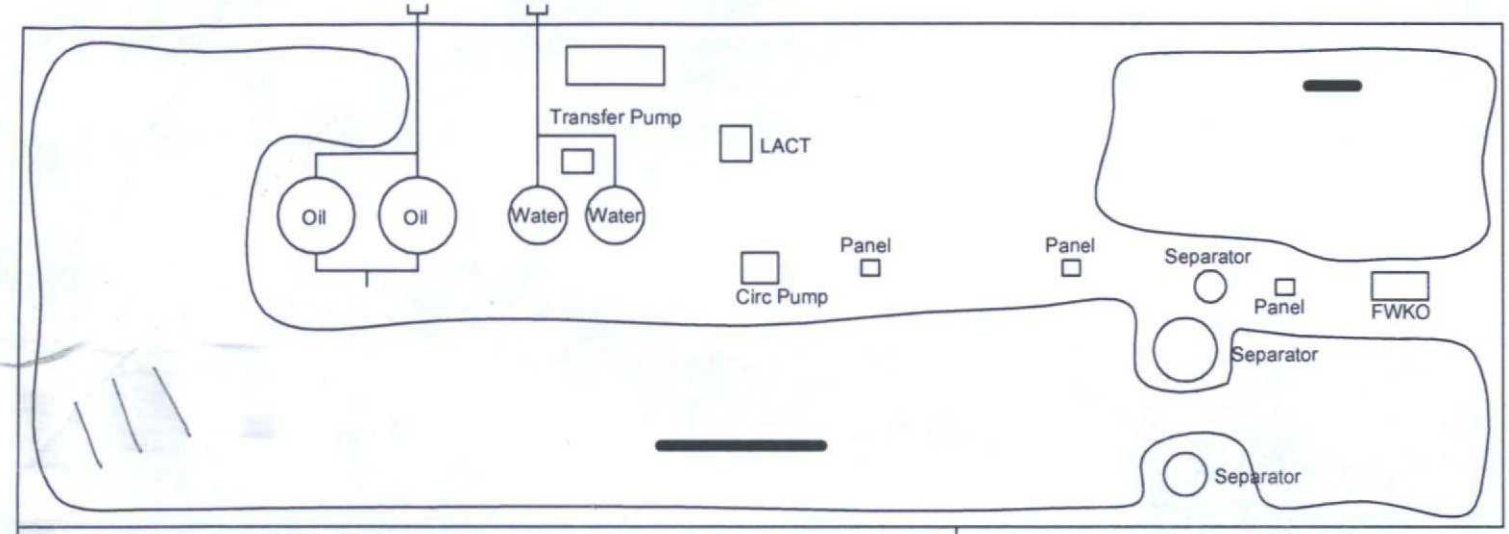
This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pGRL1001160419

1RP - 2391

LEGACY RESERVES OPERATING, LP

7/25/2016



40 20 0 20 40

Distance in Feet

Figure 1
Site Map
Chamberlain Tank Battery
Legacy Reserves
Lea County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CJB
April 1, 2010	Scale 1"=3000'

2591

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

LEGACY RESERVES, LP
LR CHAMBERLAIN TANK BATTERY
LEA COUNTY, NEW MEXICO
NMOCD # 1RP-

SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						SW 846-8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
NE Corner @ 5'	5 Feet	03/30/10	In-Situ	<0.0012	<0.0024	0.0077	0.0257	0.0222	0.0556	137	475	111	**723**	**1,420**
NE Corner @ 10'	10 Feet	03/30/10	In-Situ	<0.1147	<0.2294	0.7867	2.546	0.1846	3.517	621	1,020	90.6	**1,731.6**	**867**
NE Corner @ 15'	15 Feet	03/30/10	In-Situ	<0.5637	<1.127	8.455	11.23	5.829	25.5	1,870	3,340	225	**5,435**	**624**
NE Corner @ 17'	17 Feet	03/30/10	In-Situ	<0.0011	<0.0023	0.0035	0.0142	0.0079	0.0256	102	308	21.0	**431**	**755**
S. Middle @ 5'	5 Feet	03/30/10	In-Situ	<0.0118	0.0281	0.4166	1.366	0.9622	2.773	611	2,600	180	**3391**	**2,790**
S. Middle @ 10'	10 Feet	03/30/10	In-Situ	<5.562	<11.12	32.48	54.84	10.18	**97.5**	3,240	4,290	334	**7864**	**1,680**
S. Middle @ 12'	12 Feet	03/30/10	In-Situ	<5.682	<11.36	43.07	104.1	26.31	**173.5**	3,770	5,330	377	**9477**	**3,110**
S. Middle @ 15'	15 Feet	03/30/10	In-Situ	<5.605	<11.21	26.68	64.24	16.87	**107.79**	2,680	3,770	279	**6729**	**1,700**
NMOCD Regulatory Standard				**10**					**50**				**100**	**250**

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

LEGACY RESERVES, LP
CHAMBERLAIN #3 FLOWLINE
LEA COUNTY, NEW MEXICO
NMOCD # 1RP-2391

SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						SW 846-8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
Main Exc. @ 4'	4 Feet	09/01/09	In-Situ	<0.1131	<0.2262	1.449	4.782	1.26	7.491	755	6,840	381	**7,976**	**4,130**
Main Exc. @ 12'	12 Feet	09/01/09	In-Situ	0.1995	3.207	6.294	16.03	1.85	27.58	1,020	6,740	398	**8,158**	**4,040**
Main Exc. @ 18'	18 Feet	09/01/09	In-Situ	<0.2293	3.886	5.401	13.17	2.343	24.8	1,240	6,960	375	**8,575**	**3,790**
N. Trench Sample 1 @ 3'	3 Feet	09/01/09	In-Situ	<0.0012	<0.0023	0.0018	0.0031	0.0013	0.0062	<17.5	140	21.8	**161.8**	**3,570**
N. Trench Sample 2 @ 3.5'	3.5 Feet	09/01/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0022	<16.1	33.2	<16.1	33.2	**3,030**
W. Trench Sample 1 @ 9'	9 Feet	09/01/09	In-Situ	<0.114	2.965	5.294	12.93	2.344	23.53	1,080	5,130	342	**6,552**	**947**
W. Trench Sample 1 @ 18'	18 Feet	09/01/09	In-Situ	<0.1158	0.5661	7.229	17.16	2.767	27.72	949	3,010	207	**4,166**	**3,640**
W. Trench Sample 2 @ 2'	2 Feet	09/01/09	In-Situ	<0.0011	<0.0021	0.0017	0.0032	0.0012	0.0061	<16.0	28	<16.0	28	7.94
S. Trench Sample 1 @ 4'	4 Feet	09/01/09	In-Situ	0.3356	7.394	22.82	54.08	19.38	**104.01**	4,140	14,800	775	**19,715**	**4,870**
S. Trench Sample 1 @ 12'	12 Feet	09/01/09	In-Situ	0.4287	13.0	28.09	60.20	22.12	**123.84**	3,270	9,280	479	**13,029**	**3,190**
S. Trench Sample 1 @ 18'	18 Feet	09/01/09	In-Situ	0.4412	9.699	20.37	43.42	15.90	**89.83**	2,800	7,740	448	**10,988**	**841**
S. Trench Sample 3 @ 2'	2 Feet	09/01/09	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	107	<16.3	107	61
E. Trench Sample 1 @ 4'	4 Feet	09/01/09	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	284	46.2	**330.2**	**3,100**
E. Trench Sample 1 @ 12'	12 Feet	09/01/09	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	43.4	<17.3	43.4	**3,190**
E. Trench Sample 1 @ 18'	18 Feet	09/01/09	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.6	<17.6	<17.6	<17.6	**4,620**
E. Trench Sample 9 @ 2'	2 Feet	09/01/09	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	21.1	<15.5	21.1	269
SB-1 @ 5'	5 Feet	03/11/10	In-Situ							27,700	59,700	2,290	**89,690**	**2,460**
SB-1 @ 5' RE	5 Feet	03/11/10	In-Situ	0.1353	4.79	12.37	22.13	9.456	48.88					
SB-1 @ 15'	15 Feet	03/11/10	In-Situ							2,300	5,430	178	**7,908**	129
SB-1 @15' RE	15 Feet	03/11/10	In-Situ	0.0801	3.22	8.54	15.99	6.512	34.34					
SB-1 @ 25'	25 Feet	03/11/10	In-Situ							49.2	220	<15.5	**269.2**	**968**
SB-1 @25' RE	25 Feet	03/11/10	In-Situ	<0.0514	<0.1028	0.1805	0.4036	0.1435	0.73					
SB-1 @ 35'	35 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	24.9	<15.6	24.9	**422**
SB-1 @ 45'	45 Feet	03/11/10	In-Situ	<0.0010	0.004	0.0061	0.0147	0.0047	0.0295	<15.7	115	<15.7	**115**	**1,180**
SB-1 @ 55'	55 Feet	03/11/10	In-Situ	<0.0010	0.0024	0.0025	0.0095	0.0047	0.0191	<15.7	<15.7	<15.7	<15.7	**983**
SB-1 @ 60'	60 Feet	03/11/10	In-Situ	<0.0011	<0.0022	0.0011	0.0039	<0.0011	0.005	<16.2	17.3	<16.2	17.3	**363**
SB-2 @ 5'	5 Feet	03/11/10	In-Situ	<0.0010	<0.0020	<0.0010	0.0046	<0.0010	0.0046	<15.4	<15.4	<15.4	<15.4	23.7
SB-2 @ 15'	15 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	0.0036	<0.0010	0.0036	<15.7	<15.7	<15.7	<15.7	7.44
SB-2 @ 25'	25 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	0.0021	<0.0010	0.0021	<15.4	<15.4	<15.4	<15.4	17.3

SOUTH

TABLE 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDES IN SOIL

LEGACY RESERVES, LP
CHAMBERLAIN #3 FLOWLINE
LEA COUNTY, NEW MEXICO
NMOCD # 1RP-2391

SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						SW 846-8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
SB-2 @ 35'	35 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	8.58
SB-2 @ 45'	45 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	58.4
SB-2 @ 50'	50 Feet	03/11/10	In-Situ	<0.0010	<0.0021	0.0014	<0.0021	<0.0010	0.0014	<15.6	<15.6	<15.6	<15.6	16.2
SB-3 @ 5'	5 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	46.6
SB-3 @ 15'	15 Feet	03/11/10	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	**487**
SB-3 @ 20'	20 Feet	03/11/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	64.3
SB-3 @ 25'	25 Feet	03/11/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	105
SB-3 @ 35'	35 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	64
SB-3 @ 45'	45 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	13.6
SB-3 @ 50'	50 Feet	03/11/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	7.45
SB-4 @ 5'	5 Feet	03/11/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	78.3
SB-4 @ 15'	15 Feet	03/11/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	**621**
SB-4 @ 25'	25 Feet	03/11/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	**400**
SB-4 @ 35'	35 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	**511**
SB-4 @ 45'	45 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	**329**
SB-4 @ 50'	50 Feet	03/11/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	231
SB-5 @ 5'	5 Feet	03/12/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	**1,310**
SB-5 @ 15'	15 Feet	03/12/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	**3,070**
SB-5 @ 20'	20 Feet	03/12/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	**1,800**
SB-5 @ 25'	25 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	**697**
SB-5 @ 35'	35 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	**580**
SB-5 @ 45'	45 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	234
SB-5 @ 50'	50 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.3	<15.3	<15.3	<15.3	176
SB-6 @ 5'	5 Feet	03/12/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	19.1
SB-6 @ 15'	15 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	6.01
SB-6 @ 25'	25 Feet	03/12/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	14.5
SB-6 @ 35'	35 Feet	03/12/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<4.43
SB-6 @ 45'	45 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<4.31
SB-6 @ 50'	50 Feet	03/12/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.3	<15.3	<15.3	<15.3	5.53
NMOCD Regulatory Standard				10					50				100	250

EAST

WEST

NORTH

AGAINST FENCE LINE TOWARD BATTERY

CALICHE 20'
SANDY CLAY 20'
SANDSTONE
SILTY SAND

SANDSTONE - 17' TO 22' -

GRADIENT TO SE - LIKE PLAINS SIDES ON DAR ANGLE


VOLVO