

Table 3  
MPA Delineation Analytical Data  
SED-15 Area  
East White Lake Field  
Vermilion Parish, Louisiana

Sample ID	SED-15	SED-15	DEL-1	DEL-1	DEL-1	DEL-2	DEL-2	DEL-3	DEL-4	DEL-5	DEL-6	DEL-7	DEL-7	DEL-8	DEL-8	DEL-9	DEL-9
Sample Interval (ft)	0-4.5	4.5-5	0-3	3.5-4.5	4.5-5.5	4-5	6-7.25	3-4.5	4-5	5-6	4-5.5	0-4.5	4.5-5	0-4	4-4.5	0-3	3-3.5
Sample Date	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014	10/9/2014
Sample Matrix	Sediment	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment	Soil	Sediment	Soil	Sediment	Soil
Sampled By	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A	MP&A
<b>Parameter</b>																	
<b>Metals (mg/kg)</b>																	
Arsenic	NA	NA	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	581	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, total true	NA	NA	1,120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	ND (0.26)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	7.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	10.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	ND (1.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	ND (0.26)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	29.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Hydrocarbons (mg/kg, except O&amp;G)</b>																	
Oil & Grease (%)	0.35	0.57	0.31	2.58	1.05	0.47	2.75	1.15	0.47	1.23	0.52	0.24	0.93	0.23	0.50	0.19	0.26
<b>Salt</b>																	
Electrical Conductivity (mmhos/cm)	NA	NA	1.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESP (%)	NA	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SAR	NA	NA	6.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Soluble Calcium (meq/L)	NA	NA	2.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Soluble Magnesium (meq/L)	NA	NA	2.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Soluble Sodium (meq/L)	NA	NA	9.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Misc</b>																	
CEC (meq/100g)	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Moisture (%)	63.5	63.5	34.9	34.9	41.2	41.3	56.2	55.2	48.9	58.7	47.1	62.0	59.8	60.8	62.0	66.7	61.0

Notes:  
NA - Indicates parameter not analyzed  
ND (##) - Not detected, detection limit in parentheses

Table 4  
 Pre-Closure Surface Water Analytical Data  
 SED-15 Area  
 East White Lake Field  
 Vermilion Parish, Louisiana

<i>Sample Type</i>			
<i>Sample ID</i>	<i>SW-1</i>	<i>SW-2</i>	<i>SW-3</i>
<i>Sample Date</i>	<i>11/20/2014</i>	<i>11/20/2014</i>	<i>11/20/2014</i>
<i>Sample Matrix</i>	<i>Water</i>	<i>Water</i>	<i>Water</i>
<i>Sampled By</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>
<b>Parameter</b>			
<b><i>TPH Mixtures (mg/L)</i></b>			
TPH (Diesel Range)	ND (0.13)	ND (0.13)	ND (0.13)
TPH (Oil Range)	ND (0.12)	ND (0.12)	ND (0.12)
TPH (Gas Range)	ND (0.15)	ND (0.15)	ND (0.15)
<b><i>Other (mg/L)</i></b>			
Sodium	237	244	237
Chlorides	483	483	440
Total Dissolved Solids (Residue, Filterable)	825	895	865
Suspended Solids (Residue, Non-Filterable)	130	128	100

Notes:

Surface water samples collected from canal before initiation of remediation activities

ND (##) - Not detected, detection limit in parentheses

Table 5  
Confirmation Sampling Analytical Data  
SED-15 Area  
East White Lake Field  
Vermilion Parish, Louisiana

<i>Sample ID</i>	<i>Canal Bottom Comp</i>	<i>Topsoil N Comp</i>	<i>Topsoil S Comp</i>	<i>NE Area Comp</i>	<i>S Bottom Comp</i>	<i>S Wall Comp</i>	<i>N Bottom Comp</i>	<i>E Wall Comp</i>
<i>Sample Date</i>	<i>11/24/2014</i>	<i>11/24/2014</i>	<i>11/24/2014</i>	<i>12/1/2014</i>	<i>11/22/2014</i>	<i>11/22/2014</i>	<i>11/21/2014</i>	<i>11/20/2014</i>
<i>Sample Matrix</i>	<i>Soil</i>	<i>Soil</i>	<i>Soil</i>	<i>Soil</i>	<i>Soil</i>	<i>Soil</i>	<i>Soil</i>	<i>Soil</i>
<i>Sampled By</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>	<i>MP&amp;A</i>
<b>Parameter</b>								
<b>Hydrocarbons (mg/kg, except O&amp;G)</b>								
Oil & Grease (%)	0.62	0.48	0.31	0.26	ND (0.05)	0.22	ND (0.05)	0.51

Notes:

ND (##) - Not detected, detection limit in parentheses

Table 6  
 Backfill Source Samples  
 Pit Closure  
 East White Lake Field  
 Vermilion Parish, Louisiana

<i>Sample ID</i>	<i>Backfill 1</i>	<i>Backfill 2</i>	<i>Backfill3</i>
<i>Sample Date</i>	11/20/2014	11/20/2014	11/20/2014
<i>Sample Matrix</i>	Soil	Soil	Soil
<i>Sampled By</i>	MP&A	MP&A	MP&A
<b>Parameter</b>			
<b>Metals (mg/kg)</b>			
Arsenic	3.29	4.84	6.42
Barium	154	65.4	115
Barium, total true	196	165	545
Cadmium	ND (0.26)	ND (0.25)	ND (0.27)
Chromium	9.65	8.85	10.3
Lead	7.68	10	9.44
Mercury	ND (0.10)	ND (0.10)	ND (0.10)
Selenium	ND (1.04)	ND (1.01)	ND (1.06)
Silver	ND (0.26)	ND (0.25)	ND (0.27)
Zinc	28.6	27.8	25.3
<b>Hydrocarbons (mg/kg, except O&amp;G))</b>			
Oil & Grease (%)	ND (0.05)	ND (0.05)	ND (0.05)
<b>Salt</b>			
Electrical Conductivity (mmhos/cm)	0.16	0.1	0.41
ESP (%)	1.5	1.7	1
SAR	1.49	1.94	1.53
Soluble Calcium (meq/L)	ND (1.00)	ND (1.00)	1.83
Soluble Magnesium (meq/L)	ND (1.00)	ND (1.00)	1.23
Soluble Sodium (meq/L)	ND (1.00)	ND (1.00)	1.9
<b>Misc</b>			
CEC (meq/100g)	16.1	16.1	21.9
Percent Moisture (%)	16.0	16.6	19.2
pH (S.U.)	6.82	6.73	7.23

Notes:

--- Indicates parameter not analyzed

ND (##) - Not detected, detection limit in parentheses

Table 7  
Waste Characterization Analytical Data  
SED-15 Area  
East White Lake Field  
Vermilion Parish, Louisiana

<i>Sample ID</i>	<i>EWL-Boom</i>	<i>EWL-Residue</i>
<i>Sample Date</i>	12/15/2014	12/15/2014
<i>Sample Matrix</i>	Boom	Residue
<i>Sampled By</i>	MP&A	MP&A
<b>Parameter</b>		
<i>Metals (mg/kg)</i>		
Arsenic	ND (3.6)	ND (3.6)
Barium	1140	642
Cadmium	ND (3.6)	ND (3.6)
Chromium	13.9	11.8
Lead	13	10.8
Mercury	0.058	0.063
Selenium	ND (3.6)	ND (3.6)
Silver	ND (3.6)	ND (3.6)
Zinc	ND (72.0)	ND (72.0)
<i>BETX Analysis (mg/Kg)</i>		
Benzene	ND (0.05)	0.073
Ethylbenzene	ND (0.25)	ND (0.25)
Toluene	ND (0.25)	ND (0.25)
Xylene	ND (0.500)	0.553

Notes:

ND (##) - Not detected, detection limit in parentheses