

RECEIVED 10/16/2014  
 REM 8681  
 SPILL 200414328  
 FACILITY 258380  
 DOC 2142174

**PIONEER**  
 NATURAL RESOURCES

**Table 910-1**

CONCENTRATION LEVELS							
Contaminant of Concern	Concentrations	bottom of pit	top of pit	Native north	Native east	Native south	native west
<b>Organic Compounds in Soil</b>							
TPH (total volatile & extractable petroleum hydrocarbons)	500mg/kg	16 mg/kg					
Benzene	0.17 mg/kg	ND					
Toluene	85 mg/kg	ND					
Ethylbenzene	100mg/kg	ND					
Xylenes (total)	175 mg/kg	ND					
Acenaphthene	1000 mg/kg						
Anthracene	1000 mg/kg						
Benzo(A)anthracene	0.22 mg/kg						
Benzo(B)fluoranthene	0.22 mg/kg						
Benzo(K)fluoranthene	2.2 mg/kg						
Benzo(A)pyrene	0.022 mg/kg						
Chrysene	22 mg/kg						
Dibenzo(A,H)anthracene	0.022 mg/kg						
Fluoranthene	1000 mg/kg						
Fluorene	1000 mg/kg						
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg						
Napthalene	23 mg/kg						
Pyrene	1000 mg/kg						
<b>Organic Compounds in Ground Water</b>							
Benzene	5 µg/l						
Toluene	560 to 1000 µg/l						
Ethylbenzene	700 µg/l						
Xylenes (total)	1400 to 10,000 µg/l						
<b>Inorganics in Soils</b>							
Electrical Conductivity (EC)	<4000 umhos/cm or 2x background	210 umhos/cm	240 umhos/cm				
Sodium Adsorption Ratio (SAR)	<12	1.9	4.50				
pH	6.0-9.0	7.62	8.21				
<b>Inorganics in Ground Water</b>							
Total Dissolved Solids (TDS)	<1.25 x background						
Chlorides	<1.25 x background						
Sulfates	<1.25 x background						
<b>Metals in Soils</b>							
Arsenic	0.39 mg/kg	3.1 mg/kg	2.3 mg/kg	3.2 mg/kg	3.8 mg/kg	3.1 mg/kg	5.7 mg/kg
Barium Total	15,000 mg/kg	340 mg/kg					
Boron (Hot Water Soluble)	2 mg/l	ND					
Cadmium	70 mg/kg	ND					
Chromium (III)	120,000 mg/kg	14 mg/kg					
Chromium (VI)	23 mg/kg	ND					
Copper	3,100 mg/kg	36 mg/kg					
Lead (inorganic)	400 mg/kg	18 mg/kg					
Mercury	23 mg/kg	38 ug/kg					
Nickel (soluble salts)	1,600 mg/kg	17 mg/kg					
Selenium	390 mg/kg	2.2 mg/kg					
Silver	390 mg/kg	ND					
Zinc	23,000 mg/kg	83 mg/kg					
<b>Liquid Hydrocarbons in Soils and Ground Water</b>							
Liquid hydrocarbons including condensate and oil	Below detection level	ND					