

Table 1

CECMC Rule 915 Soil Analysis - Inorganics

Impetro Resources- Cowles "P" Lease

CECMC Remediation #9053

Sample ID	Depth	Sample Date	Location Description	EC ¹	SAR ¹	pH ¹	Boron ²
	ft bgs			mmhos/cm	ratio		mg/L
<i>CECMC Table 915-1 Clean Up Concentrations</i>				<i>< 4</i>	<i>< 6</i>	<i>6-8.3</i>	<i>2</i>
Cowles-C-1 (bottom-24')	24	5/25/2015	Center of skim pit	0.47	3.6	9.54	NA
Cowles-C-2 (west-12')	12	5/25/2015	west sidewall	0.70	3.9	9.59	NA
Cowles-C-3 (north-12')	12	5/25/2015	north sidewall	0.50	4.7	9.19	NA
Cowles-C-4 (east-12')	12	5/25/2015	east sidewall	0.49	4.0	9.54	NA
Cowles-C-5 (south-12')	12	5/25/2015	south sidewall	0.58	3.0	9.30	NA

Concentrations exceeding the CECMC Table 915-1 allowable concentrations are expressed in **bold** type face

¹ By Saturated Paste Method

² Hot Water Soluble Soil Extract

EC = Electrical Conductivity

SAR = Sodium Adsorption Ratio

ft bgs - Feet below ground surface

mmhos/cm - Millimhos per centimeter

mg/L - Milligrams per liter

NA - Not Analyzed

CECMC - Colorado Energy and Carbon Management Commission



Table 2
CECMC Rule 915 Soil Analysis - Organics

Impetro Resources- Cowles "P" Lease

CECMC Remediation #9053

Sample ID	Depth	Sample Date	Location Description	PID	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	TPH
	ft bgs			ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<i>CECMC Table 915-1 Protection of Groundwater Soil Screening Level Concentrations</i>					<i>0.0026 (M)</i>	<i>0.69 (M)</i>	<i>0.78 (M)</i>	<i>9.9 (M)</i>	<i>0.0038 (R)</i>	<i>0.0081 (R)</i>	<i>0.0087 (R)</i>	<i>500</i>
<i>CECMC Table 915-1 Residential Soil Screening Level Concentrations</i>					<i>1.2</i>	<i>490</i>	<i>5.8</i>	<i>58</i>	<i>2</i>	<i>30</i>	<i>27</i>	<i>500</i>
Cowles-C-1 (bottom-24')	24	5/25/2015	Center of skim pit	-	ND	ND	ND	ND	NA	NA	NA	<500
Cowles-C-2 (west-12')	12	5/25/2015	west sidewall	-	ND	ND	ND	ND	NA	NA	NA	<500
Cowles-C-3 (north-12')	12	5/25/2015	north sidewall	-	ND	ND	ND	ND	NA	NA	NA	12483
Cowles-C-4 (east-12')	12	5/25/2015	east sidewall	-	ND	ND	ND	ND	NA	NA	NA	<500
Cowles-C-5 (south-12')	12	5/25/2015	south sidewall	-	ND	ND	ND	ND	NA	NA	NA	<500

Concentrations exceeding the CECMC Table 915-1 allowable concentrations are expressed in **bold** type face

TPH - Total volatile (C6 - C10) and extractable (C10-C36) petroleum hydrocarbons

ft bgs - Feet below ground surface

PID - Photoionization Detector

mg/kg - Milligrams per kilogram

ppm - Parts per million

TMB - Trimethylbenzene

ND - Non-detect

NA - Not Analyzed

CECMC - Colorado Energy and Carbon Management Commission

(M) - The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

(R) - The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach.

