

Table 1
CECMC Rule 915 Soil Analysis - Inorganics

Chaco Energy Company - Kindt 1

CECMC Project #: 24530

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>				< 4	< 6	6-8.3	2
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	0.416	0.111	8.08	0.189
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	0.880	3.71	8.58	3.53
BKG 01 @ 2'	2	8/31/2023	West Background	0.338	0.299	8.13	0.310
WH 01 @ 2'	2	8/31/2023	Well Head	0.867	0.877	7.71	0.210
BKG 02 @ 2'	2	8/31/2023	East Background	0.265	0.218	8.08	0.227
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	2.66	5.52	9.88	25.6
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	5.12	10.1	7.29	3.26
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	4.93	4.76	7.35	0.618
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	4.59	3.08	7.05	0.562
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	6.52	2.08	6.95	0.240
BKB 03 @ 2'	2	8/31/2023	South Background	8.69	2.79	7.05	0.157

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

Chaco Energy Company - Kindt 1

CECMC Project #: 24530

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 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>
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	11.5	ND	ND	ND	ND	ND	ND	ND	ND
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	8.7	ND	ND	ND	ND	ND	ND	ND	ND
BKG 01 @ 2'	2	8/31/2023	West Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH 01 @ 2'	2	8/31/2023	Well Head	6.4	ND	ND	ND	ND	ND	ND	ND	ND
BKG 02 @ 2'	2	8/31/2023	East Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	3.3	ND	ND	ND	ND	ND	ND	ND	ND
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	1.9	ND	ND	ND	ND	ND	ND	ND	ND
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	4.1	ND	ND	ND	ND	ND	ND	ND	ND
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	4	ND	ND	ND	ND	ND	ND	ND	ND
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	5.5	ND	ND	ND	ND	ND	ND	ND	ND
BKB 03 @ 2'	2	8/31/2023	South Background	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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Table 3
CECMC Rule 915 Soil Analysis - Metals

Chaco Energy Company - Kindt 1

CECMC Project #: 24530

Sample ID	Depth ft bgs	Sample Date	Location Description	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Selenium	Silver	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<i>CECMC Table 915-1 Allowable Residential Soil Screening Level Concentration</i>				<i>0.68</i>	<i>15000</i>	<i>71</i>	<i>0.3</i>	<i>3100</i>	<i>400</i>	<i>1500</i>	<i>390</i>	<i>390</i>	<i>23000</i>
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	0.91	299	ND	ND	1.12	7.10	1.43	ND	0.0289	4.68
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	0.793	187	ND	ND	1.07	6.85	1.30	ND	0.0227	4.59
BKG 01 @ 2'	2	8/31/2023	West Background	0.832	243	ND	ND	1.35	6.84	1.57	ND	0.0406	4.74
WH 01 @ 2'	2	8/31/2023	Well Head	1.08	349	ND	ND	1.59	15.4	1.83	ND	0.0346	9.27
BKG 02 @ 2'	2	8/31/2023	East Background	0.856	413	ND	ND	0.967	6.23	1.32	ND	0.0239	4.04
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	0.604	234	ND	ND	1.23	7.23	1.26	ND	ND	4.49
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	0.51	101	ND	ND	1.18	6.33	1.26	ND	0.0246	4.56
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	0.571	110	ND	ND	1.08	6.61	1.37	ND	0.0272	4.53
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	0.559	140	ND	ND	1.05	5.48	1.14	ND	ND	4.06
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	0.582	124	ND	ND	1.16	6.53	1.28	ND	0.0229	4.65
BKB 03 @ 2'	2	8/31/2023	South Background	1.01	187	ND	ND	1.71	5.48	1.83	ND	0.0400	5.44

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

ft bgs - Feet below ground surface

mg/kg - Milligrams per kilogram

ND - Non-detect

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Table 4
CECMC Rule 915 Soil Analysis - Polycyclic Aromatic Hydrocarbons (PAHs)

Chaco Energy Company - Kindt 1

CECMC Project #: 24530

Sample ID	Depth	Sample Date	Location Description	PID	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene
	ft bgs			ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<i>CECMC Table 915-1 Allowable Residential Soil Screening Level Concentration</i>					360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	8.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BKG 01 @ 2'	2	8/31/2023	West Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH 01 @ 2'	2	8/31/2023	Well Head	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BKG 02 @ 2'	2	8/31/2023	East Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BKB 03 @ 2'	2	8/31/2023	South Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

ft bgs - Feet below ground surface

mg/kg - Milligrams per kilogram

ND - Non-detect

NA - Not Analyzed

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