

TABLE 1
E34-496 CUTTINGS REMEDIATION
SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS LLC
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20200520-E34-496 (CUTW)	20200520-E34-496 (CUTWMID)	20200520-E34-496 (CUTE)
Sample Date			5/20/2020	5/20/2020	5/20/2020
Sample Matix			Baseline Cuttings	Baseline Cuttings	Baseline Cuttings
Arsenic	0.39	mg/kg	5.8	5.2	7.0
Barium	15,000	mg/kg	480	750	840
Cadmium	70	mg/kg	0.48	0.35	0.47
Chromium (III)	120,000	mg/kg	20	18	22
Chromium (VI)	23	mg/kg	<0.99	<1.0	<1.0
Copper	3,100	mg/kg	36	27	28
Lead	400	mg/kg	16	15	14
Mercury	23	mg/kg	0.20	0.14	0.18
Nickel	1,600	mg/kg	17	14	15
Selenium	390	mg/kg	1.2	0.63	0.83
Silver	390	mg/kg	0.15	0.13	0.18
Zinc	23,000	mg/kg	60	60	64
EC	4 or 2x background	mmhos/cm	5.2	3.5	3.2
pH	6-9	SU	8.26	8.85	10.8
SAR	12	unitless	16	18	12
TPH-DRO			86	160	130
TPH-GRO			84	8.7	90
TPH	500	mg/kg	170	168.7	220
Benzene	0.17	mg/kg	0.69	0.58	0.76
Toluene	85	mg/kg	0.95	0.97	1.0
Ethylbenzene	100	mg/kg	0.054	0.063	0.069
Total Xylenes	175	mg/kg	0.34	0.41	0.44
Acenaphthene	1,000	mg/kg	<0.00098	<0.00097	<0.00098
Anthracene	1,000	mg/kg	<0.0017	<0.0017	<0.0017
Benz(a)anthracene	0.22	mg/kg	<0.0021	<0.0021	<0.0021
Benzo(a)pyrene	0.022	mg/kg	<0.0014	<0.0014	<0.0014
Benzo(b)fluoranthene	0.22	mg/kg	<0.0012	<0.0012	<0.0012
Benzo(k)fluoranthene	2.2	mg/kg	<0.0015	<0.0015	<0.0015
Chrysene	22	mg/kg	<0.0010	<0.0010	<0.0010
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.0012	<0.0012	<0.0012
Fluoranthene	1,000	mg/kg	<0.00093	<0.00092	<0.00093
Fluorene	1,000	mg/kg	0.032	0.036	0.048
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.0018	<0.0018	<0.0018
Naphthalene	23	mg/kg	0.10	0.19	0.32
Pyrene	1,000	mg/kg	0.014	0.017	0.0086

Notes:

< - less than the stated reporting limit

Highlight - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC - electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

ND - non detect

SAR - sodium adsorption ratio

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO