

TABLE 1
C16OU DUMPLINE RELEASE
SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS LLC
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20191120-C16OU POR	C16OU-SE BACK-090910	C16OU-S BACK- 090910	C16OU-SW BACK-090910
Sample Date			11/20/2019	9/9/2010	9/9/2010	9/9/2010
Sample Matix			Spill	Background	Background	Background
Arsenic	0.39	mg/kg	6.16	17.5	18.4	15.1
Barium	15,000	mg/kg	381	NA	NA	NA
Cadmium	70	mg/kg	<0.500	NA	NA	NA
Chromium (III)	120,000	mg/kg	16.6	NA	NA	NA
Chromium (VI)	23	mg/kg	<2.00	NA	NA	NA
Copper	3,100	mg/kg	11.2	NA	NA	NA
Lead	400	mg/kg	7.79	NA	NA	NA
Mercury	23	mg/kg	<0.0300	NA	NA	NA
Nickel	1,600	mg/kg	12.3	NA	NA	NA
Selenium	390	mg/kg	<2.00	NA	NA	NA
Silver	390	mg/kg	<1.00	NA	NA	NA
Zinc	23,000	mg/kg	28.4	NA	NA	NA
EC	4 or 2x background	mmhos/cm	4.95	NA	NA	NA
pH	6-9	SU	8.09	NA	NA	NA
SAR	12	unitless	35.9	NA	NA	NA
TPH-DRO			8220	NA	NA	NA
TPH-GRO			1560	NA	NA	NA
TPH	500	mg/kg	9780	NA	NA	NA
Benzene	0.17	mg/kg	6.73	NA	NA	NA
Toluene	85	mg/kg	36.1	NA	NA	NA
Ethylbenzene	100	mg/kg	5.21	NA	NA	NA
Total Xylenes	175	mg/kg	101	NA	NA	NA
Acenaphthene	1,000	mg/kg	<0.006	NA	NA	NA
Anthracene	1,000	mg/kg	<0.006	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	<0.006	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	<0.006	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	<0.006	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	<0.006	NA	NA	NA
Chrysene	22	mg/kg	<0.006	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.006	NA	NA	NA
Fluoranthene	1,000	mg/kg	<0.006	NA	NA	NA
Fluorene	1,000	mg/kg	<0.006	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.006	NA	NA	NA
Naphthalene	23	mg/kg	<0.02	NA	NA	NA
Pyrene	1,000	mg/kg	<0.006	NA	NA	NA

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