

TABLE 1
17F DUMPLINE RELEASE
SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS LLC
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20191114-17F (POR-01)	20191114-17F (SP-01)	20191114-17F (ST-01)	20191114-17F (POC-01)	20191118-17F (Bottom) @ 10.5'
Sample Date			11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/18/2019
Sample Matix			Spill Path	Spill Path	Spill Path	Spill Path	Spill
Arsenic	0.39	mg/kg	3.09	3.40	4.22	6.05	3.38
Barium	15,000	mg/kg	568	463	520	402	104
Cadmium	70	mg/kg	<0.500	<0.500	<0.500	<0.500	<0.500
Chromium (III)	120,000	mg/kg	12.5	10.9	9.51	10.6	11.4
Chromium (VI)	23	mg/kg	<2.00	<2.00	<2.00	<2.00	<2.00
Copper	3,100	mg/kg	12	8.98	11.7	10.4	9.71
Lead	400	mg/kg	9.09	6.6	5.62	9.47	7.52
Mercury	23	mg/kg	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300
Nickel	1,600	mg/kg	14.7	11.3	12.5	15.2	11.5
Selenium	390	mg/kg	<2.00	<2.00	<2.00	<2.00	<2.00
Silver	390	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
Zinc	23,000	mg/kg	43.7	34.1	24.6	38.5	40.7
EC	4 or 2x background	mmhos/cm	3.87	2.8	2.02	0.133	2.26
pH	6-9	SU	8.51	8.91	8.31	8.57	7.76
SAR	12	unitless	77.5	40.3	13.1	0.929	1.74
TPH-DRO			279	<4.00	9.43	<4.00	<4.00
TPH-GRO			2570	1.53	0.142	0.158	33.4
TPH	500	mg/kg	2849	1.53	9.572	0.158	33.4
Benzene	0.17	mg/kg	0.851	0.00298	<0.00100	<0.00100	0.0252
Toluene	85	mg/kg	9.55	0.0147	<0.00500	<0.00500	0.0779
Ethylbenzene	100	mg/kg	2.96	<0.00250	<0.00250	<0.00250	0.00945
Total Xylenes	175	mg/kg	57.8	0.0331	<0.00650	<0.00651	0.136
Acenaphthene	1,000	mg/kg	0.0112	<0.00600	<0.00600	<0.00600	<0.00600
Anthracene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Benz(a)anthracene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Benzo(b)fluoranthene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Benzo(k)fluoranthene	2.2	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Benzo(a)pyrene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Chrysene	22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Fluoranthene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Fluorene	1,000	mg/kg	0.0223	<0.00600	<0.00600	<0.00600	<0.00600
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Naphthalene	23	mg/kg	0.421	<0.0200	<0.0200	<0.0200	<0.0200
Pyrene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600

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