

TABLE 1  
PUCKETT 255-1 DUMPLINE RELEASE PBV REMOVAL  
SOIL ANALYTICAL RESULTS  
CAERUS OIL AND GAS LLC  
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20200904-255-1-POR@5'	20200904-255-1- TANKBOTTOM@7'	20200924-PUCKETT 255-1 (E BOTTOM) @21.5'	20200924-PUCKETT 255-1 (E WALL) @15'	20200924-PUCKETT 255-1 (POR BOTTOM) @21'	20200924-PUCKETT 255-1 (W WALL) @17'
Sample Date			9/4/2020	9/4/2020	9/24/2020	9/24/2020	9/24/2020	9/24/2020
Sample Matix			POR	POR at Bottom of PBV	Excavation	Excavation	Excavation	Excavation
Arsenic	0.39	mg/kg	5.92	7.29	3.55	6.51	4.82	6.65
Barium	15,000	mg/kg	546	180	221	234	190	171
Cadmium	70	mg/kg	0.790	<0.500	1.10	0.701	<0.500	0.545
Chromium (III)	120,000	mg/kg	10.2	27.1	18.4	25.1	18.9	16.9
Chromium (VI)	23	mg/kg	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Copper	3,100	mg/kg	8.29	17.5	18.1	18.1	16.4	16.7
Lead	400	mg/kg	5.61	11.6	18.5	12.6	11.5	10.9
Mercury	23	mg/kg	<0.0400	<0.0400	0.0624	<0.0400	0.0507	<0.0400
Nickel	1,600	mg/kg	5.33	19.5	22.3	24.3	19.8	16.9
Selenium	390	mg/kg	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Silver	390	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Zinc	23,000	mg/kg	43.0	46.9	50.2	53.5	50.7	43.5
EC	4 or 2x background	mmhos/cm	0.838	0.611	0.334	0.118	0.195	0.624
pH	6-9	SU	8.15	8.35	8.96	8.95	8.65	8.52
SAR	12	unitless	8.39	2.24	1.47	1.81	1.26	4.51
TPH-DRO			128	562	9.18	4.51	<4.00	243
TPH-GRO			227	3040	5.12	<0.100	0.123	5.01
TPH	500	mg/kg	355	3602	14.3	4.51	0.123	248.01
Benzene	0.17	mg/kg	0.478	0.300	<0.00100	<0.00100	<0.00100	<0.00100
Toluene	85	mg/kg	7.84	5.07	0.0400	<0.00500	0.0133	<0.00500
Ethylbenzene	100	mg/kg	0.753	1.25	0.00970	<0.00250	<0.00250	<0.00250
Total Xylenes	175	mg/kg	23.5	142	0.360	<0.00650	0.0929	0.0428
Acenaphthene	1,000	mg/kg	0.00895	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Anthracene	1,000	mg/kg	0.0339	0.0118	<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	<0.00600
Benzo(b)fluoranthene	0.22	mg/kg	<0.00600	<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	<0.00600
Benzo(a)pyrene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Chrysene	22	mg/kg	<0.00600	<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	<0.00600
Fluoranthene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Fluorene	1,000	mg/kg	0.0232	0.0614	<0.00600	<0.00600	<0.00600	0.0458
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Naphthalene	23	mg/kg	0.467	0.884	<0.0200	<0.0200	<0.0200	0.0549
Pyrene	1,000	mg/kg	<0.00600	<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

TABLE 1  
PUCKETT 255-1 DUMPLINE RELEASE PBV REMOVAL  
SOIL ANALYTICAL RESULTS  
CAERUS OIL AND GAS LLC  
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20200924-PUCKETT 255-1 (N WALL) @16'	20200924-PUCKETT 255-1 (S WALL) @17'	20200924-PUCKET 255-1 (SSTOCK)	BKGD 01	BKGD 02	BKGD 03
Sample Date			9/24/2020	9/24/2020	9/24/2020	7/14/2015	7/14/2015	7/14/2015
Sample Matix			Excavation	Excavation	Stockpile	Background	Background	Background
Arsenic	0.39	mg/kg	9.08	6.72	10.4	8.7	8.4	7.1
Barium	15,000	mg/kg	195	182	205	NA	NA	NA
Cadmium	70	mg/kg	0.621	0.630	0.636	NA	NA	NA
Chromium (III)	120,000	mg/kg	20.0	19.1	28.4	NA	NA	NA
Chromium (VI)	23	mg/kg	<2.00	<2.00	2.16	NA	NA	NA
Copper	3,100	mg/kg	14.2	15.3	18.4	NA	NA	NA
Lead	400	mg/kg	11.6	13.1	14.9	NA	NA	NA
Mercury	23	mg/kg	<0.0400	0.0441	<0.0400	NA	NA	NA
Nickel	1,600	mg/kg	18.4	19.6	26.6	NA	NA	NA
Selenium	390	mg/kg	<2.00	<2.00	<2.00	NA	NA	NA
Silver	390	mg/kg	<1.00	<1.00	<1.00	NA	NA	NA
Zinc	23,000	mg/kg	44.1	46.6	57.3	NA	NA	NA
EC	4 or 2x background	mmhos/cm	0.111	0.113	0.211	NA	NA	NA
pH	6-9	SU	8.83	8.91	8.53	NA	NA	NA
SAR	12	unitless	1.49	1.60	1.55	NA	NA	NA
TPH-DRO			<4.00	<4.00	64.2	NA	NA	NA
TPH-GRO			<0.100	<0.100	16.5	NA	NA	NA
TPH	500	mg/kg	<4.1	<4.1	80.7	NA	NA	NA
Benzene	0.17	mg/kg	<0.00100	<0.00100	<0.00100	NA	NA	NA
Toluene	85	mg/kg	0.0143	<0.00500	<0.00500	NA	NA	NA
Ethylbenzene	100	mg/kg	<0.00250	<0.00250	<0.00250	NA	NA	NA
Total Xylenes	175	mg/kg	0.0866	<0.00650	0.0115	NA	NA	NA
Acenaphthene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Anthracene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Chrysene	22	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Fluoranthene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Fluorene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	NA	NA	NA
Naphthalene	23	mg/kg	<0.0200	<0.0200	<0.0200	NA	NA	NA
Pyrene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	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