

TABLE 2
BIG RIDGE FEDERAL 15-1-101 #1
SOIL ANALYTICAL RESULTS
PIT CONFIRMATION SAMPLES
RIO BLANCO COUNTY, COLORADO
MERRION OIL AND GAS CORP.

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	PB01 2FT	PB02 2FT	PB03 2FT	PB04 2FT	PB05 2FT
Sample Date			10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Arsenic	0.39	mg/kg	4.7	5.1	5	3.6	3.8
Barium	15,000	mg/kg	81	120	100	97	65
Cadmium	70	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (III)	120,000	mg/kg	14	13	12	10	10
Chromium (VI)	23	mg/kg	<2.0	<2.0	<2.0	<2.0	2.1
Copper	3,100	mg/kg	16	13	12	10	14
Lead	400	mg/kg	11	8.6	9.7	8.4	9.7
Mercury	23	mg/kg	0.03	0.026	0.02	0.021	0.035
Nickel	1,600	mg/kg	12	20	12	14	8.2
Selenium	390	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	390	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Zinc	23,000	mg/kg	44	42	40	34	34
EC	4.0	mmhos/cm	0.56	0.27	0.9	1.1	0.13
pH	6 - 9	SU	8.2	8.3	8.2	8.1	8.5
SAR	12	unitless	0.81	0.46	2.2	2.3	0.18
TPH-GRO		mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
TPH-DRO		mg/kg	27	31	7.9	25	19
TPH	500	mg/kg	27	31	7.9	25	19
Benzene	0.17	mg/kg	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Toluene	85	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	100	mg/kg	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Total Xylenes	175	mg/kg	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Acenaphthene	1000	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Anthracene	1000	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Benzo(A)anthracene	0.22	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Benzo(B)fluoranthene	0.22	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Benzo(K)fluoranthene	2.2	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Benzo(A)pyrene	0.022	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Chrysene	22	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Dibenzo(A,H)anthracene	0.022	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Fluoranthene	1000	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Fluorene	1000	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Naphthalene	23	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	1000	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060

NOTES:

NA - not analyzed

< - less than the stated reporting limit

BOLD - 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

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