

TABLE 1
SOIL ANALYTICAL RESULTS

STRANAHAN 21B
GARFIELD COUNTY, COLORADO
GRIZZLY OPERATING, LLC.

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	EXCAVATION SAMPLES										
			POR BOTTOM @6.5'	E. BOTTOM @6.5'	W. BOTTOM @7.5'	W. WALL @6.5'	S-E. WALL @4.5'	N. WALL @6'	MID BOTTOM @8.5'	N-E. WALL @5'	S. WALL @ 5.5'	W-N. WALL @6.5'	W-S. WALL @6.5'
Sample Date			6/11/2020	6/11/2020	6/11/2020	6/11/2020	6/12/2020	6/12/2020	6/12/2020	6/12/2020	6/12/2020	6/12/2020	6/12/2020
Arsenic	0.39	mg/kg	1.1	1.4	3.8	3.9	2.0	2.7	3.4	4.0	3.7	2.6	3.4
Barium	15,000	mg/kg	75	270	240	190	130	180	180	52	230	190	230
Cadmium	70	mg/kg	ND	ND	ND	0.19	ND	ND	ND	0.17	0.22	ND	0.20
Chromium (III)	120,000	mg/kg	5.7	6.4	9.8	10	7.5	9.2	7.6	10	9.8	8.1	9.7
Chromium (VI)	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	3,100	mg/kg	9.5	7.8	8.4	9.9	11	16	8.7	20	11	8.8	11
Lead	400	mg/kg	6.9	6.4	9.7	9.9	8	10	11	11	12	7.9	11
Mercury	23	mg/kg	0.13	0.15	0.071	0.075	0.28	0.13	0.083	0.10	0.13	0.15	0.14
Nickel	1,600	mg/kg	9.8	11	10	11	12	14	9.7	18	12	11	11
Selenium	390	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	390	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	23,000	mg/kg	40	42	35	36	47	53	35	64	42	36	39
EC	4.0	mmhos/cm	0.40	0.55	0.53	0.76	0.29	5.9	0.90	2.3	1.5	1.4	0.52
pH	6 - 9	SU	9.84	9.87	9.20	9.18	9.99	8.43	9.23	8.48	8.52	8.80	8.56
SAR	12	unitless	8.9	10	5.5	6.6	6.3	4.1	8.2	2.4	3.3	2.9	3.1
TPH-GRO		mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH-DRO		mg/kg	ND	20	ND	ND	14	14	ND	13	13	ND	12
TPH	500	mg/kg	ND	20	ND	ND	14	14	ND	13	13	ND	12
Benzene	0.17	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	85	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	175	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1000	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1000	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(A)anthracene	0.22	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	0.22	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	2.2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	22	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	0.022	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1000	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1000	mg/kg	ND	ND	ND	ND	ND	0.041	0.011	0.0056	ND	ND	ND
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1000	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

ND - analyte not detected

BOLD - indicates result exceeds the COGCC concentration level

BOLD - indicates result is below approved background concentration

SU - standard unit

COGCC - Colorado Oil and Gas Conservation Commission

EC - electrical conductivity

GRO - gasoline range organics

DRO - diesel range organics

TPH - total petroleum hydrocarbons

SAR - sodium adsorption ratio

mmhos/cm - millimhos per centimeter

mg/kg - milligrams per kilogram

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SOIL ANALYTICAL RESULTS

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GARFIELD COUNTY, COLORADO
GRIZZLY OPERATING, LLC.

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	BACKGROUND ARSENIC SAMPLES			
			BG01	BG02	BG03	BG04
Sample Date			7/8/2014	7/8/2014	7/8/2014	7/8/2014
Arsenic	0.39	mg/kg	6.27	3.08	10.1	4.19
Barium	15,000	mg/kg	NA	NA	NA	NA
Cadmium	70	mg/kg	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	NA	NA	NA	NA
Copper	3,100	mg/kg	NA	NA	NA	NA
Lead	400	mg/kg	NA	NA	NA	NA
Mercury	23	mg/kg	NA	NA	NA	NA
Nickel	1,600	mg/kg	NA	NA	NA	NA
Selenium	390	mg/kg	NA	NA	NA	NA
Silver	390	mg/kg	NA	NA	NA	NA
Zinc	23,000	mg/kg	NA	NA	NA	NA
EC	4.0	mmhos/cm	0.459	0.106	0.695	0.370
pH	6 - 9	SU	8.47	7.61	8.17	8.23
SAR	12	unitless	0.32	0.12	0.12	0.60
TPH-GRO		mg/kg	NA	NA	NA	NA
TPH-DRO		mg/kg	NA	NA	NA	NA
TPH	500	mg/kg	NA	NA	NA	NA
Benzene	0.17	mg/kg	NA	NA	NA	NA
Toluene	85	mg/kg	NA	NA	NA	NA
Ethylbenzene	100	mg/kg	NA	NA	NA	NA
Total Xylenes	175	mg/kg	NA	NA	NA	NA
Acenaphthene	1000	mg/kg	NA	NA	NA	NA
Anthracene	1000	mg/kg	NA	NA	NA	NA
Benzo(A)anthracene	0.22	mg/kg	NA	NA	NA	NA
Benzo(B)fluoranthene	0.22	mg/kg	NA	NA	NA	NA
Benzo(K)fluoranthene	2.2	mg/kg	NA	NA	NA	NA
Fluorene	0.022	mg/kg	NA	NA	NA	NA
Chrysene	22	mg/kg	NA	NA	NA	NA
Dibenzo(A,H)anthracene	0.022	mg/kg	NA	NA	NA	NA
Fluoranthene	1000	mg/kg	NA	NA	NA	NA
Fluorene	1000	mg/kg	NA	NA	NA	NA
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	NA	NA	NA	NA
Naphthalene	23	mg/kg	NA	NA	NA	NA
Pyrene	1000	mg/kg	NA	NA	NA	NA

NOTES:

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