

Soil Sampling Results
State CB #1
BP America Production Company

Parameter	SS01 6/29/2020 Point of release	SS02 6/29/2020 Flowpath	SS03 6/29/2020 Background	COGCC Table 910 Standard	Units
Depth	0-8	0-8	0-8	NA	inches bgs
Field, PID	1.6	0.5	0.3	NA	ppm
Conductivity	4.340	4.640	8.620	<4 or 2x BG	mmhos/cm
pH	7.93	8.35	8.71	6-9	pH units
SAR	13.8	28.2	43.9	<12	no units
Calcium	143	53.0	120	NA	mg/L
Magnesium	19.1	10.0	48.2	NA	mg/L
Sodium	660	854	2,250	NA	mg/L
Arsenic	6.26	3.94	2.42	0.39	mg/kg
Barium	470	598	251	15,000	mg/kg
Cadmium	<5.00	<5.00	<5.00	70	mg/kg
Total Chromium	12.3	13.4	8.74	23 or 120,000*	mg/kg
Copper	14.4	18.5	13.6	3,100	mg/kg
Lead	11.9	15.0	12.2	400	mg/kg
Nickel	9.98	9.95	9.60	1,600	mg/kg
Selenium	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	390	mg/kg
Zinc	46.9	42.1	57.8	23,000	mg/kg
Mercury	<0.0469	<0.0457	<0.0459	23	mg/kg
Boron	<1.20	<1.20	<1.20	2	mg/L
Benzene	<0.050	<0.050	-	0.17	mg/kg
Toluene	<0.050	<0.050	-	85	mg/kg
Ethylbenzene	<0.050	<0.050	-	100	mg/kg
Total Xylenes	<0.150	<0.150	-	175	mg/kg
Total BTEX	<0.300	<0.300	-	NA	mg/kg
TPH (GRO)	<10.0	<10.0	-	NA	mg/kg
TPH (DRO)	<10.0	<10.0	-	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	-	NA	mg/kg
Total TPH	<30.0	<30.0	-	500	mg/kg
Naphthalene	<0.004	<0.004	-	23	mg/kg
Acenaphthene	<0.003	<0.003	-	1,000	mg/kg
Fluorene	<0.003	<0.003	-	1,000	mg/kg
Anthracene	<0.004	<0.004	-	1,000	mg/kg
Fluoranthene	0.004**	0.039**	-	1,000	mg/kg
Pyrene	<0.003	0.040	-	1,000	mg/kg
Benzo(a)anthracene	<0.002	0.031**	-	0.22	mg/kg
Chrysene	<0.0008	0.035**	-	22	mg/kg
Benzo(b)fluoranthene	<0.002	0.031**	-	0.22	mg/kg
Benzo(k)fluoranthene	<0.002	0.027**	-	2.2	mg/kg
Benzo(a)pyrene	<0.004	<0.004	-	0.022	mg/kg
Indeno(1,2,3-cd)pyrene	<0.003	<0.003	-	0.22	mg/kg
Dibenzo(a,h)anthracene	<0.004	<0.004	-	0.022	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
BG - Background
** - Analyte was detected below the reporting limit; therefore, the result is an estimate.

BG - Background
bgs - below ground surface
ppm - parts per million
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
"- " - Indicates no data
* - Chromium (VI) standard is 23 mg/kg and chromium (III) standard is 120,000 mg/kg.
COGCC - Colorado Oil & Gas Conservation Commission
Bold values exceed COGCC Table 910 Standard