

Table 1  
Soil Sampling Results  
Champlin 117 Amoco C #5  
DIA Well Plugging Project  
City & County of Denver

Parameter	SS01 11/01/2022	SS02 11/01/2022	COGCC Table 915-1 Standard	Units
Sample Location	Wellhead	Flowline	NA	NA
Latitude/Longitude	39.905282/-104.726681	39.905241/-104.726588	NA	NA
Laboratory ID	2211019-01	2211019-02	NA	NA
Depth	7	5	NA	feet bgs
PID	1.1	1.0	NA	ppm
Conductivity	0.536	0.381	<4	mmhos/cm
pH	7.82	7.66	6-8.3	pH units
SAR	1.35	0.36	<6	no units
Calcium	36.9	51.1	NA	mg/L
Magnesium	13.4	11.6	NA	mg/L
Sodium	37.7	10.9	NA	mg/L
Arsenic	2.51	<b>3.75</b>	0.68	mg/kg
Barium	176	160	15000	mg/kg
Cadmium	<5.00	<5.00	71	mg/kg
Chromium (VI)	<0.250	<0.250	0.3	mg/kg
Total Chromium	10.8	15.1	NA	mg/kg
Copper	5.90	7.92	3100	mg/kg
Lead	<10.0	11.2	400	mg/kg
Nickel	6.22	9.70	1500	mg/kg
Selenium	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	390	mg/kg
Zinc	30.9	47.4	23000	mg/kg
Boron	<1.20	<1.20	2	mg/L
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
Benzene	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.015	<0.015	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	360	mg/kg
Fluorene	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	240	mg/kg
Pyrene	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	0.11	mg/kg

**Notes:**

PID - Photoionization Detector  
SAR - Sodium Adsorption Ratio  
BTX - Benzene, Toluene, Ethylbenzene,  
& Total Xylenes  
TPH - Total Petroleum Hydrocarbons  
GRO - Gasoline Range Organics  
DRO - Diesel Range Organics  
EXT - Extended  
NA - Not Applicable  
ppm - parts per million

bgs - below ground surface  
mmhos/cm - millihos per centimeter  
mg/L - milligrams per liter  
mg/kg - milligrams per kilogram  
COGCC - Colorado Oil & Gas Conservation Commission  
**Bold** values exceed COGCC Standard  
Values reported below the laboratory detection limit are  
considered zero in Total TPH calculations.