

**Table 1**  
**Soil Sampling Results**  
**Box Elder J#1**  
**DIA Well Plugging Project**  
**City & County of Denver**

Parameter	SS01	SS02	SS03	SS04	COGCC Table 915-1 Standard	Units
	10/05/2022	10/05/2022	10/05/2022	10/05/2022		
Sample Location	Pumping Unit	Flowline	Separator	Incinerator	NA	NA
Latitude/Longitude	39.918836/-104.693438	39.918606/-104.693572	39.918533/-104.693646	39.918554/-104.693421	NA	NA
Laboratory ID	2210059-01	2210059-02	2210059-03	2210059-04	NA	NA
Depth	0-0.5	4	0-0.5	0-0.5	NA	feet bgs
PID	0.2	0.2	0.2	0.2	NA	ppm
Conductivity	0.950	0.362	0.850	0.823	<4	mmhos/cm
pH	7.35	7.77	7.77	<b>8.93</b>	6-8.3	pH units
SAR	0.78	0.64	0.48	0.28	<6	no units
Calcium	129	38.2	123	134	NA	mg/L
Magnesium	24.8	12.3	10.2	9.21	NA	mg/L
Sodium	36.7	17.7	20.7	12.6	NA	mg/L
Arsenic	3.15	2.47	2.54	3.23	0.68	mg/kg
Barium	97.9	78.2	81.1	142	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)	0.298	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	15.4	8.78	10.3	18.8	NA	mg/kg
Copper	8.03	<5.00	6.12	7.88	3100	mg/kg
Lead	12.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	7.75	<5.00	<5.00	8.24	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	35.6	23.7	41.2	36.3	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	824	<10.0	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	685	<10.0	<10.0	<10.0	NA	mg/kg
Total TPH	<b>1,509</b>	<30.0	<30.0	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.015	<0.015	<0.015	<0.015	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.016	<0.016	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	<0.014	<0.014	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	<0.019	<0.019	240	mg/kg
Pyrene	<0.013	<0.013	0.014	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.017	<0.017	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<0.019	<0.019	0.11	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  
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  
\* - Laboratory detection limit exceeds COGCC Standard  
**Bold** values exceed COGCC Standard  
Values reported below the laboratory detection limit  
are considered zero in Total TPH calculations.

**Table 1 (continued)**  
**Soil Sampling Results**  
**Box Elder J#1**  
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Parameter	SS05	SS06	SS07	SS08	COGCC Table 915-1 Standard	Units
	10/05/2022	10/05/2022	10/05/2022	10/05/2022		
Sample Location	Flowline	Flowline	AST	Pit Tank	NA	NA
Latitude/Longitude	39.918556/-104.693339	39.918468/-104.693385	39.918665/-104.693140	39.918728/-104.693145	NA	NA
Laboratory ID	2210059-05	2210059-06	2210059-07	2210059-08	NA	NA
Depth	3	4	0-0.5	5	NA	feet bgs
PID	0.1	0.1	0.2	0.4	NA	ppm
Conductivity	0.810	0.566	2.080	3.390	<4	mmhos/cm
pH	7.57	7.45	6.46	7.19	6-8.3	pH units
SAR	0.31	0.17	0.37	0.24	<6	no units
Calcium	45.5	78.0	321	46.8	NA	mg/L
Magnesium	8.34	13.1	40.3	8.16	NA	mg/L
Sodium	8.58	6.16	26.1	6.81	NA	mg/L
Arsenic	<b>5.52</b>	2.77	2.13	2.55	0.68	mg/kg
Barium	119	86.0	54.9	68.7	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)	<b>0.360</b>	<0.250	<b>0.670</b>	0.298	0.3	mg/kg
Total Chromium	16.0	10.7	6.99	9.08	NA	mg/kg
Copper	5.39	<5.00	<5.00	<5.00	3100	mg/kg
Lead	<10.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	8.66	5.22	<5.00	<5.00	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	36.0	27.7	20.2	24.5	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	<10.0	68.9	20.2	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	<30.0	68.9	20.2	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.015	<0.015	<0.015	<0.015	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.016	<0.016	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	<0.014	<0.014	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	<0.019	<0.019	240	mg/kg
Pyrene	<0.013	<0.013	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.017	<0.017	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<0.019	<0.019	0.11	mg/kg

**Notes:**

PID - Photoionization Detector  
SAR - Sodium Adsorption Ratio  
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes  
TPH - Total Petroleum Hydrocarbons  
GRO - Gasoline Range Organics  
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EXT - Extended  
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**Table 1 (continued)**  
**Soil Sampling Results**  
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Parameter	SS09	SS10	Background 1	Background 2	COGCC Table 915-1	Units
	01/06/2023	01/23/2023	11/14/2022	11/15/2022	Standard	
Sample Location	Soil Pile	Wellhead	Background 1	Background 2	NA	NA
Latitude/Longitude	39.918898/-104.693144	39.918753/-104.693460	39.914356/-104.683935	39.903994/-104.709448	NA	NA
Laboratory ID	2301063-01	2301164-01	2211210-01	2211210-02	NA	NA
Depth	0	8	0-0.67	0-0.17	NA	feet bgs
PID	0.4	0.4	-	-	NA	ppm
Conductivity	1.010	1.160	0.330	0.700	<4	mmhos/cm
pH	7.89	<b>9.70</b>	<b>5.86</b>	6.78	6-8.3	pH units
SAR	0.75	2.09	0.17	0.19	<6	no units
Calcium	144	128	23.4	74.7	NA	mg/L
Magnesium	23.2	23.2	6.45	22.2	NA	mg/L
Sodium	36.6	97.9	3.69	7.26	NA	mg/L
Arsenic	2.70	2.35	<b>1.25</b>	<b>2.78</b>	0.68	mg/kg
Barium	88.3	91.1	38.2	88.7	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)	<0.250	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	58.7	13.0	<5.00	12.5	NA	mg/kg
Copper	11.3	5.06	<5.00	7.50	3100	mg/kg
Lead	12.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	30.6	7.00	<5.00	6.58	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	36.0	25.5	17.5	35.6	23000	mg/kg
Boron	1.47	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<50.0	<10.0	-	-	NA	mg/kg
TPH (DRO)	1,030	<10.0	-	-	NA	mg/kg
TPH (EXT DRO)	1,050	<10.0	-	-	NA	mg/kg
Total TPH	<b>2,080</b>	<30.0	-	-	500	mg/kg
Benzene	<0.0250	<0.00885	-	-	1.2	mg/kg
Toluene	<0.0250	<0.00670	-	-	490	mg/kg
Ethylbenzene	<0.0250	<0.00405	-	-	5.8	mg/kg
Total Xylenes	<0.0750	<0.0256	-	-	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.00450	-	-	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	0.0231	-	-	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  
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