



**TABLE 2**  
**Analytical Results Summary: Waste Characterization and Background Soil Samples**  
**Heinze #1 Tank Battery, Weld County, CO**

Analyte	COGCC Table 915-1 GWSSL	COGCC Table 915-1 RSSL	WC01-3	BG1-1	BG1-3	BG2-1	BG2-3	Units
<b>Sample Information</b>								
Sample Date	-	-	2/25/2022	2/25/2022	2/25/2022	2/25/2022	2/25/2022	mm/dd/yyyy
Sample Depth	-	-	3	1	3	1	3	feet
Field Screening	-	-	1,139	-	-	-	-	ppm
<b>TPH in Soils</b>								
gasoline range organics	500	500	214	-	-	-	-	mg/kg
diesel range organics	500	500	<b>603</b>	-	-	-	-	mg/kg
residual range organics	500	500	224	-	-	-	-	mg/kg
total petroleum hydrocarbons	500	500	<b>1,041</b>	-	-	-	-	mg/kg
<b>Organic Compounds in Soils</b>								
benzene	0.0026	1.2	<b>0.0528</b>	-	-	-	-	mg/kg
toluene	0.69	490	<0.00200	-	-	-	-	mg/kg
ethylbenzene	0.78	5.8	<b>1.98</b>	-	-	-	-	mg/kg
total xylenes	9.9	58	9.72	-	-	-	-	mg/kg
1,2,4-trimethylbenzene	0.0081	30	<b>6.79</b>	-	-	-	-	mg/kg
1,3,5-trimethylbenzene	0.0087	27	<b>1.90</b>	-	-	-	-	mg/kg
acenaphthene	0.55	360	0.103	-	-	-	-	mg/kg
anthracene	5.8	1,800	0.00686	-	-	-	-	mg/kg
benzo(a)anthracene	0.011	1.1	0.00881	-	-	-	-	mg/kg
benzo(b)fluoranthene	0.3	1.1	<0.0067	-	-	-	-	mg/kg
benzo(k)fluoranthene	2.9	11	<0.0067	-	-	-	-	mg/kg
benzo(a)pyrene	0.24	0.11	0.00533	-	-	-	-	mg/kg
chrysene	9	110	0.103	-	-	-	-	mg/kg
dibenzo(a,h)anthracene	0.096	0.11	<0.0067	-	-	-	-	mg/kg
fluoranthene	8.9	240	0.0061	-	-	-	-	mg/kg
fluorene	0.54	240	0.363	-	-	-	-	mg/kg
indeno(1,2,3-cd)pyrene	0.98	1.1	<0.0067	-	-	-	-	mg/kg
1-methylnaphthalene	0.006	18	<b>3.1</b>	-	-	-	-	mg/kg
2-methylnaphthalene	0.019	24	<b>4.04</b>	-	-	-	-	mg/kg
naphthalene	0.0038	2	<b>1.24</b>	-	-	-	-	mg/kg
pyrene	1.3	180	0.0357	-	-	-	-	mg/kg
<b>Metals in Soil</b>								
arsenic	0.29	0.68	<b>2.91</b>	<b>1.69</b>	<b>1.54</b>	<b>1.44</b>	<b>3.08</b>	mg/kg
barium	82	15,000	<b>85.3</b>	23.1	42.1	26	39.7	mg/kg
cadmium	0.38	71	0.113	-	-	-	-	mg/kg
chromium (VI)	0.00067	0.3	<0.517*	-	-	-	-	mg/kg
copper	46	3,100	6.52	-	-	-	-	mg/kg
lead	14	400	7.34	-	-	-	-	mg/kg
nickel	26	1,500	7.54	-	-	-	-	mg/kg
selenium	0.26	390	<b>0.374</b>	<b>0.267</b>	<b>0.323</b>	<b>0.286</b>	0.208	mg/kg
silver	0.8	390	0.0332	-	-	-	-	mg/kg
zinc	370	23,000	30.1	-	-	-	-	mg/kg
<b>Soil Suitability Parameters</b>								
EC	4	4	0.336	2.44	2.79	0.721	1.22	mmhos/cm
SAR	6	6	0.585	<b>9.60</b>	4.44	3.75	<b>4.71</b>	Unitless
pH	6-8.3	6-8.3	7.71	<b>8.71</b>	7.92	<b>8.51</b>	<b>8.31</b>	Unitless
boron	2	2	0.200	0.694	0.178	0.406	0.0987	mg/l

Notes:

COGCC - Colorado Oil and Gas Conservation Commission  
 GWSSL - Protection to Groundwater Soil Screening Level  
 SS#-#: Soil Sample ID - depth in ft-bgs  
 ft-bgs - feet below ground surface  
 ppm - parts per million  
 TPH - total petroleum hydrocarbons  
 mg/kg - milligrams per kilogram  
 EC - electrical conductivity

mmhos/cm - millimhos per centimeter  
 SAR - sodium adsorption ratio  
 mg/l - milligrams per liter  
*Italics* - estimated value, analyte below the laboratory's quantitation limit  
 \* - result was below the laboratory method detection limit of 0.252 mg/kg  
 < - indicates result was not detected and is less than the laboratory reporting limit  
**RED - indicates result is above the Table 915-1 GWSSL**