

TABLE 1
C STREET DIRECTIONAL (BITTERSWEET 3-1-13)
WASTE CHARACTERIZATION SAMPLES
SOIL ANALYTICAL DATA - VOCs

| Soil Sample Location | Depth | Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Naphthalene (mg/kg) | TVPH-GRO (mg/kg) | TEPH-DRO (mg/kg) | TEPH-ORO (mg/kg) | 1,2,4-TMB (mg/kg) | 1,3,5-TMB (mg/kg) |
|---|-------|------------|-----------------|-----------------|----------------------|-----------------------|---------------------|------------------|------------------|------------------|-------------------|-------------------|
| COGCC Organic Compounds in Soils ⁽¹⁾ | | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0038 | 500 | | | 0.0081 | 0.0087 |
| COGCC Organic Compounds in Soils ⁽²⁾ | | | 1.2 | 490 | 5.8 | 58 | 2 | 500 | | | 30 | 27 |
| WC-01 | 0-6" | 08/30/2023 | 0.045 | 0.19 | 0.0180 | 0.27 | <0.0038 | 7.8 | 600 | 130 | 0.063 | 0.036 |
| BKWC-01 | 0-6" | 08/30/2023 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

**TABLE 2
C STREET DIRECTIONAL (BITTERSWEET 3-1-13)
WASTE CHARACTERIZATION SAMPLES
SOIL ANALYTICAL DATA - VOCs**

| Soil Sample Id | Depth | Date | Acenaphthene (mg/kg) | Anthracene (mg/kg) | Benzo(a)A (mg/kg) | Benzo(b)F (mg/kg) | Benzo(k)F (mg/kg) | Benzo(a)P (mg/kg) | Chrysene (mg/kg) | D (a,h) A | Fluoranthene (mg/kg) | Fluorene (mg/kg) | 1,2,3-CD (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) | Pyrene (mg/kg) |
|---|-------|------------|----------------------|--------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------|----------------------|------------------|------------------|---------------|--------------|----------------|
| COGCC Organic Compounds in Soils (1) | | | 0.55 | 5.8 | 0.011 | 0.3 | 2.9 | 0.24 | 9 | 0.96 | 8.9 | 0.54 | 0.98 | 0.006 | 0.019 | 1.3 |
| COGCC Organic Compounds in Soils (2) | | | 360 | 1,800 | 1.1 | 1.1 | 11 | 0.11 | 110 | 0.11 | 240 | 240 | 1.1 | 18 | 24 | 180 |
| WC-01 | 0-6" | 08/30/2023 | <0.00500 | <0.00500 | 0.121 | 0.00820 | <0.00500 | <0.00500 | 0.0817 | <0.00500 | 0.0383 | <0.0050 | <0.00500 | 0.0559 | 0.192 | 0.0345 |
| BKWC-01 | 0-6" | 08/30/2023 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(c) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenzo(a,h)Anthracene

1,2,3-CD = indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 3
C STREET DIRECTIONAL (BITTERSWEET 3-1-13)
WASTE CHARACTERIZATION SAMPLES
SOIL ANALYTICAL DATA - METALS

| Soil Sample Location | Depth | Date | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|--------------------------------------|-------|------------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| COGCC Metals in Soils ⁽¹⁾ | | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| COGCC Metals in Soils ⁽²⁾ | | | 0.68 | 15,000 | 71 | 0.3 | 3,100 | 400 | 1,500 | 390 | 390 | 23,000 |
| WC-01 | 0-6" | 08/30/2023 | 0.762* | 101* | 0.258 | <0.30 | 2.48 | 2.34 | 2.24 | <0.260 | <0.0200 | 43.4 |
| BK-WC01 | 0-6" | 08/30/2023 | 0.834 | 99.3 | <0.200 | <0.30 | 3.54 | 6.30 | 2.83 | <0.260 | 0.0272 | 11.8 |

Notes:

(1) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

Average background concentration x1.25

Italics = Laboratory minimum detection limit exceeds the COGCC Table 915-1 Standard

* Result exceeded the COGCC Table 915-1 standard, but was within site-specific 1.25x background multiplier levels

TABLE 4
C STREET DIRECTIONAL (BITTERSWEET 3-1-13)
WASTE CHARACTERIZATION SAMPLES
SOIL ANALYTICAL DATA - VOCs

| Soil Sample Location | Depth | Date | pH | SAR | EC (mmhos/cm) | Boron (mg/L) |
|---|-------|------------|----------------|---------------|---------------|--------------|
| COGCC Soil Suitability for Reclamation⁽¹⁾ | | | 6 - 8.3 | < 6 | < 4 | 2 |
| WC-01 | 0-6" | 08/30/2023 | 6.38 | 35.4 | 20.2 | 17.0 |
| BK-WC01 | 0-6" | 08/30/2023 | 7.23 | 0.281 | 0.924 | 0.789 |

Notes:

(1) Standards for soil are taken from COGCC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Soil Suitability for Reclamation Concentrations

Average background concentration

* Result exceeded the COGCC Table 915-1 standard, but was within site-specific background concentrations