# Form 27 Data Package

**Amoco 44-17**
**Remediation #: 38361**

Stantec

Prepared for:
Extraction Oil & Gas - 10459

January 2026

N2S2SE Sec 17 1S 65W

Facility ID: 320283
API #: 001-08859

Stantec Consulting Services Inc.

# Corrective Action Plan

# 1.0 INTRODUCTION

This Corrective Action Plan (CAP) has been prepared by Stantec Consulting Services Inc. (Stantec) to document the decommissioning of Amoco 44-17 (Site). The activities described in this CAP were completed in accordance with the Colorado Energy & Carbon Management Commission (ECMC) Site Investigation and Remediation Workplan Form 27 for Remediation #38361.

# 2.0 BACKGROUND ANALYSIS

Stantec conducted a Background Analysis at the Site to establish background conditions of the soil. This was done to provide evidence that any levels of soil suitability for reclamation standards and/or metals that are outside the acceptable limits in ECMC Table 915-1 are not related to the historic operations at the Site and will not adversely affect agronomic properties of the soil during final reclamation.

A total of ten background soil samples were collected in the vicinity of the Site on February 4, 2025. The background soil samples were collected from depths ranging from 3 feet below ground surface (‘ bgs) to 6’ bgs. The soil type found in that depth range is clay.

Laboratory results for the background samples were received on February 20, 2025. Laboratory analytical results for the background soil samples indicated levels of EC, SAR, pH, boron, arsenic, barium, lead, and selenium exist in the native soil outside the applicable ECMC Table 915-1 standards.

A total of 10 confirmation / verification soil samples (discussed in **Section 3.0**) were collected throughout the Site on February 4, 2025. The confirmation soil samples were collected from depths ranging from 0’ bgs to 6’ bgs. The soil type found in that depth range was primarily clay.

See the attached **Decommissioning Form** for a list of soil samples and their associated soil types and depths. See the attached **Table 3** for the analytical results of the background soil samples. See the attached **Figure 2** for the locations of the background soil samples. A **Photographic Log** of background soil samples is also attached.

# 3.0 INITIAL SAMPLING EVENT

Civitas decommissioned one wellhead, one flowline, one separator, one set of dumplines, one aboveground storage tank (AST), and one produced water vessel (PWV) at the Site. Following the decommissioning of Site infrastructure, Stantec collected the initial round of confirmation soil samples on February 4, 2025. Soil samples were sent to Origins / Enthalpy for analysis of the constituents in ECMC Table 915-1. Evidence of a spill was observed at the wellhead, separator, and PWV in the field during the sampling event. A Spill was reported on February 5, 2025.

Laboratory results were received on February 20, 2025. Laboratory results indicated organic concentrations above applicable ECMC Table 915-1 standards at the separator and PWV.

Laboratory results also indicated that inorganic levels outside applicable ECMC Table 915-1 standards exist at the wellhead, separator, and PWV after comparing them to background samples. Verification sampling has been initiated only at the wellhead. Verification samples have not been initiated at the separator of PWV due to the need for excavations in those areas.

The attached **Decommissioning Form** lists the infrastructure removed. See the attached **Table 2** for the analytical results of the confirmation soil samples. The attached **Figure 2** depicts the locations of the soil samples from the initial sampling event. A **Photographic Log** of the soil samples and field screening locations is also attached.

# 4.0 CONCLUSIONS AND RECOMMENDATIONS

The soil type throughout the Site is comprised primarily of clay from depths of 0’ bgs to 6’ bgs. The native background soil type in the vicinity of the Site is comprised primarily of clay from depths of 3’ bgs to 6’ bgs.

One wellhead, one flowline, one separator, one set of dumplines, one AST, and one PWV were decommissioned at the Site. Evidence of a Spill was observed at the wellhead, separator, and PWV during field screening. A Spill was reported to the ECMC on February 5, 2025. Hydrocarbon impacts at the separator and PWV were confirmed with lab results on February 20, 2025. Excavations are planned at the separator and PWV. Verification sampling is planned at the wellhead to verify that the pH and lead levels are accurate.

# Decommissioning Form

CIVITAS (EXTRACTION OIL AND GAS) FACILITY DECOMMISSIONING FORM

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site Name: | Amoco 44-17 | Date: | 2/4/2025 | ECMC Rem #: | 38361 | Weather: | Couldy, 20 °F |
| Sampler Name: | Corey Pursell | Surface Gradient: | West | Crop Type: | Grazing | Surrounding Land Use: | Agriculture |

| Sample ID | Time | Depth (feet) | Soil PID (ppm) | Soil Stain / GW Sheen | Odor | Soil Description (USCS) / GW Description (Turbidity) | GPS Precision | Photo (Y/N) | Associated Equipment | Lab (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| WH-B01 @ 6' | 1007 | 6 | 5.8 | Yes | No | Clay loam | 18" - 3.2' | Y | Wellhead | Y |
| WH-FL01 @ 3' | 1048 | 3 | 0.6 | No | No | Clay loam | 18" - 3.2' | Y | Wellhead | Y |
| SEP-FL01 @ 3' | 1105 | 3 | 247.2 | No | Slight | Clay loam | 18" - 3.2' | Y | Separator | Y |
| SEP-B01 @ 6' | 1203 | 6 | 556.7 | Yes | Yes | Clay loam | 18" - 3.2' | Y | Separator | Y |
| PWV-B01 @ 6' | 1120 | 6 | 626.5 | Yes | Yes | Clay | 18" - 3.2' | Y | Produced Water Vault | Y |
| PWV-N @ 3' | 1425 | 3 | 71.5 | No | No | Clay | 18" - 3.2' | Y | Produced Water Vault | Y |
| PWV-S @ 3' | 1412 | 3 | 1.8 | No | No | Clay | 18" - 3.2' | Y | Produced Water Vault | Y |
| PWV-E @ 3' | 1418 | 3 | 23.8 | No | No | Clay | 18" - 3.2' | Y | Produced Water Vault | Y |
| PWV-W @ 3' | 1123 | 3 | 48.3 | No | Yes | Clay loam | 18" - 3.2' | Y | Produced Water Vault | Y |
| AST-B01 @ 0' | 1142 | 0 | 1.2 | No | No | Clay | 18" - 3.2' | Y | AST | Y |
| BG01 @ 3' | 1218 | 3 | 29.5 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG01 @ 6' | 1220 | 6 | 3.1 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG02 @ 3' | 1231 | 3 | 11.8 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG02 @ 6' | 1235 | 6 | 1.5 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG03 @ 3' | 1245 | 3 | 6.8 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG03 @ 6' | 1247 | 6 | 1.5 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG04 @ 3' | 1301 | 3 | 2.2 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG04 @ 6' | 1304 | 6 | 1.2 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG05 @ 3' | 1315 | 3 | 2.3 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| BG05 @ 6' | 1317 | 6 | 1.2 | No | No | Clay | 18" - 3.2' | Y | Background | Y |
| | | | | | | | | | | |
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| Infrastructre Type | Count |
|---|---|
| Wellhead | 1 |
| Flowline | 1 |
| Separator | 1 |
| Dump Line | 1 |
| Oil Tank | 1 |
| Producted Water Vessel | 1 |
| Emmission Control Device | 0 |
| Other (Specify) | 0 |

| Excavated Soil | Truck Loads | Quantity (cy) |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total Removed | | ongoing |
| Soil Disposal Facility: | | |

| GW Recovery Date | Quantity (bbls) |
|---|---|
| | |
| | |
| | |
| | |
| | |
| Total Removed | 0 |
| GW Disposal Facility | NA |
| Date GW Encountered | NA |

| FL Abandoned in Place (feet) | FL Removed (feet) |
|---|---|
| 0 | 85 |

# Photographic Log


**Photo #1** View of the wellhead floor sample location


**Photo #2** View of the flowline at wellhead sample location


**Photo #3** View of the flowline @ separator sample location


**Photo #4** View of the AST sample area


**Photo #5** View of the separator sample


**Photo #6** View of the produced water vessel sample locations


**Photo #7** View of the produced water vessel sample locations


**Photo #8** View of the background (BG) 01 sampling location

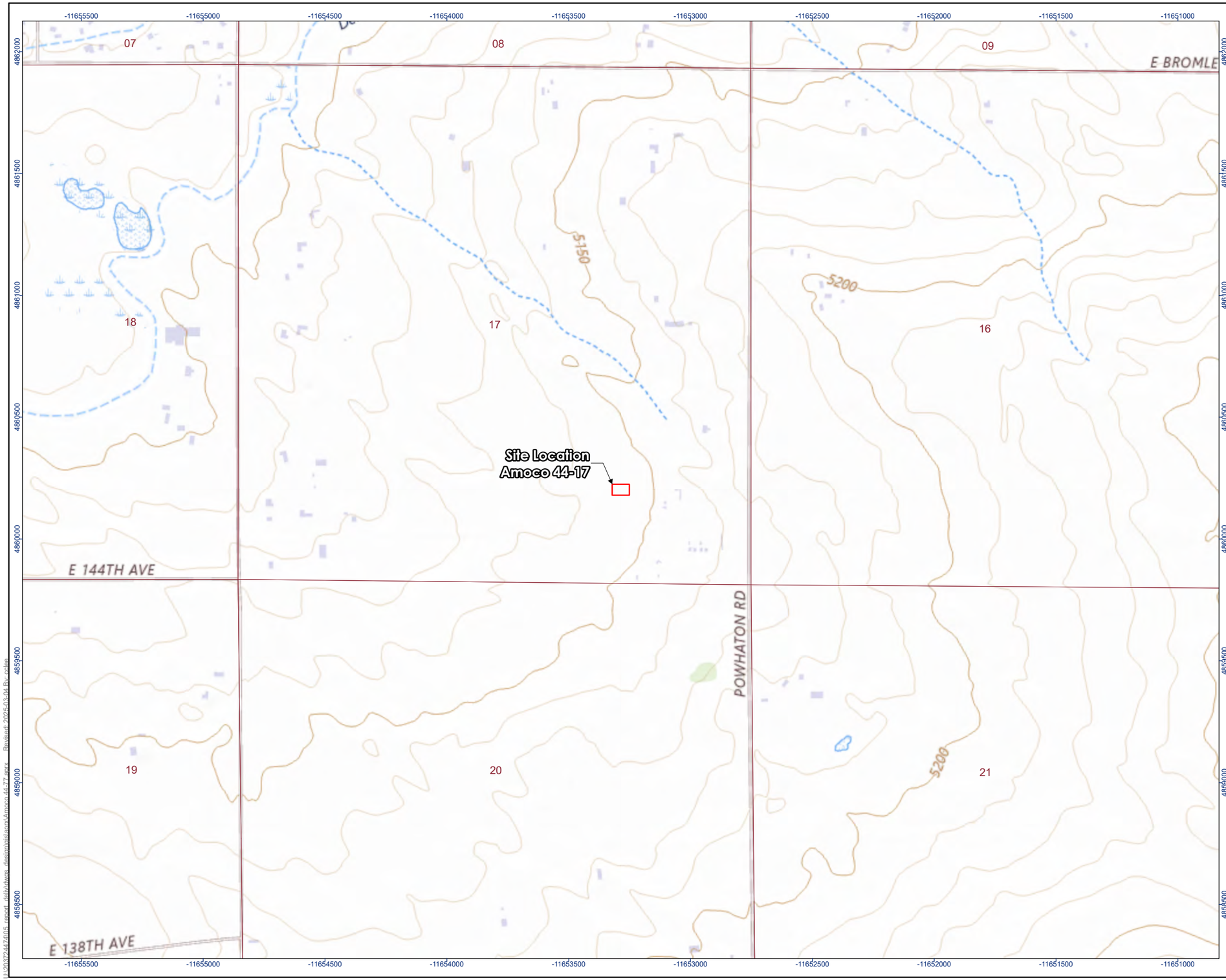

**Photo #9** View of the BG02 sampling location


**Photo #10** View of the BG03 sampling location


**Photo #11** View of the BG04 sampling location


**Photo #12** View of the BG05 sampling location

# Figures




Stantec

Site Location

PLSS Section

N

0 1,320 2,640 Feet

0 0.25 0.5 Miles

(At original document size of 11x17) 1:15,840

***Notes***

**1.** Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

**2.** Background: World Terrain Base: Sources: Esri, USGS, NOAA
USGSTopo: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data; Natural Earth Data; U.S. Department of State HIU; NOAA National Centers for Environmental Information. Data refreshed February, 2025.
World Terrain Reference: Sources: Esri, Garmin, USGS, NPS


*Project Location*
SEC 17-T1S-R65W
ADAMS COUNTY, COLORADO

Drawn by CCL on 2025-03-04
Reviewed by CR 2025-03-04
203724474

*Client/Project*
EXTRACTION OIL & GAS INC - 10459
Amoco 44-17
Remediation #38361

*Figure No.*
**1**

*Title*
**SITE LOCATION MAP**

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-11653327 -11653296 -11653266 -11653236

4860249 4860219 4860188 4860158

BG03
BG02
BG04
WH-B01@6'
Wellhead Excavation Area
BG05
BG01
WH FL 01@3'
Powhaton Rd
SEP-FL01@3'
PWV-B01@6'
Separator Excavation Area
PWV-N@3'
AST-B01@0'
PWV-W@3'
SEP-B01@6'
PWV-S@3'
PWV-E@3'
PWV Excavation Area

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Stantec

- Former Excavation Extents
- Background Sample Location
- Soil Sample with ECMC Table 915-1 Exceedances for TPH and/or Organic Compounds in Soil
- Soil Sample with no ECMC Table 915-1 Exceedances for TPH or Organic Compounds in Soil

Notes:
Soil Sample Locations and Approximate Excavation Extents were collected using a Trimble R1 Data Collector.
Serial Number GNSS:91585

N

0 40 80 Feet
0 15 30 Meters

(At original document size of 11x17) 1:480

***Notes***
**1.** Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere
**2.** Background: World Terrain Base: Sources: Esri, USGS, NOAA
Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS
World Terrain Reference: Sources: Esri, Garmin, USGS, NPS
Bing Maps Aerial: © 2025 Microsoft Corporation © 2025 Maxar ©CNES (2025) Distribution Airbus DS


*Project Location*
SEC 17-T1S-R65W
ADAMS COUNTY, COLORADO

Drawn by CCL on 2025-03-04
Reviewed by CR on 2025-03-04
203724474

*Client/Project*
EXTRACTION OIL & GAS INC - 10459
Amoco 44-17
Remediation #38361

*Figure No.*
**2**

*Title*
**SOIL SAMPLE LOCATION MAP**

# Tables

# Table 1
## Soil Sample Locations
## Extraction Oil & Gas, Inc.
## SITE NAME: Amoco 44-17
## Remediation Project # 38361

| Sample Name | Date | Depth (feet) | PID (ppm) | Latitude | Longitude | Accuracy Value | Lab (Y/N) |
|---|---|---|---|---|---|---|---|
| WH-B01 @ 6' | 2/4/2025 | 6 | 5.8 | 39.960611 | -104.683217 | 18" - 3.2' | Y |
| WH-FL01 @ 3' | 2/4/2025 | 3 | 0.6 | 39.960585 | -104.683223 | 18" - 3.2' | Y |
| SEP-FL01 @ 3' | 2/4/2025 | 3 | 247.2 | 39.960445 | -104.683422 | 18" - 3.2' | Y |
| SEP-B01 @ 6' | 2/4/2025 | 6 | 556.7 | 39.960466 | -104.683409 | 18" - 3.2' | Y |
| PWV-B01 @ 6' | 2/4/2025 | 6 | 626.5 | 39.960443 | -104.68324 | 18" - 3.2' | Y |
| PWV-N @ 3' | 2/4/2025 | 3 | 71.5 | 39.960444 | -104.683233 | 18" - 3.2' | Y |
| PWV-S @ 3' | 2/4/2025 | 3 | 1.8 | 39.960432 | -104.683244 | 18" - 3.2' | Y |
| PWV-E @ 3' | 2/4/2025 | 3 | 23.8 | 39.96043 | -104.683208 | 18" - 3.2' | Y |
| PWV-W @ 3' | 2/4/2025 | 3 | 48.3 | 39.960449 | -104.683252 | 18" - 3.2' | Y |
| AST-B01 @ 0' | 2/4/2025 | 0 | 1.2 | 39.960427 | -104.683028 | 18" - 3.2' | Y |
| BG01 @ 3' | 2/4/2025 | 3 | 29.5 | 39.960591 | -104.683337 | 18" - 3.2' | Y |
| BG01 @ 6' | 2/4/2025 | 6 | 3.1 | 39.960591 | -104.683337 | 18" - 3.2' | Y |
| BG02 @ 3' | 2/4/2025 | 3 | 11.8 | 39.960701 | -104.683277 | 18" - 3.2' | Y |
| BG02 @ 6' | 2/4/2025 | 6 | 1.5 | 39.960701 | -104.683277 | 18" - 3.2' | Y |
| BG03 @ 3' | 2/4/2025 | 3 | 6.8 | 39.960736 | -104.683115 | 18" - 3.2' | Y |
| BG03 @ 6' | 2/4/2025 | 6 | 1.5 | 39.960736 | -104.683115 | 18" - 3.2' | Y |
| BG04 @ 3' | 2/4/2025 | 3 | 2.2 | 39.960676 | -104.682995 | 18" - 3.2' | Y |
| BG04 @ 6' | 2/4/2025 | 6 | 1.2 | 39.960676 | -104.682995 | 18" - 3.2' | Y |
| BG05 @ 3' | 2/4/2025 | 3 | 2.3 | 39.960611 | -104.683108 | 18" - 3.2' | Y |
| BG05 @ 6' | 2/4/2025 | 6 | 1.2 | 39.960611 | -104.683108 | 18" - 3.2' | Y |

**Notes**

| | |
|---|---|
| PID | photoionization detector |
| ppm | parts per million |
| -- | not measured / not applicable |

**Table 2**
**Soil Sample Analytical Results**
**Extraction Oil & Gas, Inc.**
**SITE NAME: Amoco 44-17**
**Remediation Project # 38361**

| Constituent of Concern | ECMC Table 915-1 RSSL's | ECMC Table 915-1 GWSSL's | Results | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Name | | | WH-B01 @ 6' | WH-FL01 @ 3' | SEP-FL01 @ 3' | SEP-B01 @ 6' | PWV-B01 @ 6' | PWV-N @ 3' | PWV-S @ 3' | PWV-E @ 3' | PWV-W @ 3' | AST-B01 @ 0' |
| Date | | | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 |
| PID (ppm) | | | 5.8 | 0.6 | 247.2 | 556.7 | 626.5 | 71.5 | 1.8 | 23.8 | 48.3 | 1.2 |
| Depth (feet) | | | 6 | 3 | 3 | 6 | 6 | 3 | 3 | 3 | 3 | 0 |
| **TPH (mg/kg)** | | | | | | | | | | | | |
| TPH - GRO | | -- | 0.551 | <0.200 | 19.5 | 18.8 | 1,200 | 3.67 | <0.200 | 1.09 | 0.225 | <0.200 |
| TPH - DRO | | -- | 45.1 | <25.0 | 530 | 405 | 1,480 | 168 | <25.0 | 105 | <25.0 | <25.0 |
| TPH - ORO | | -- | <100 | <100 | 346 | 301 | 867 | 201 | <100 | 166 | <100 | <100 |
| TPH - Total | | 500 | 45.651 | <125.200 | **895.5** | **724.8** | **3,547** | 372.67 | <125.200 | 272.09 | 0.225 | <125.200 |
| **Soil Suitability for Reclamation** | | | | | | | | | | | | |
| EC (mmhos/cm) | | 4 | 0.892 | 1.38 | 1.02 | 0.718 | 0.720 | 0.640 | 0.274 | 1.18 | 1.18 | 0.146 |
| SAR (ratio) | | 6 | 0.728 | 2.64 | **14.3** | 5.93 | **22.4** | 4.17 | 0.143 | 8.77 | 7.06 | 3.78 |
| pH (units) | | 6-8.3 | **8.57** | 8.20 | 7.96 | 8.44 | 8.27 | 8.38 | 8.24 | 8.37 | 8.36 | 7.05 |
| boron (mg/L) | | 2 | 0.384 | 0.312 | 2.76 | 0.606 | 1.94 | 0.826 | 0.220 | 1.06 | 1.09 | <1.01 |
| **Organic Compounds in Soils (mg/kg)** | | | | | | | | | | | | |
| benzene | 1.2 | 0.0026 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.0500 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 |
| toluene | 490 | 0.69 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.0500 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 |
| ethylbenzene | 5.8 | 0.78 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **2.66** | 0.00238 | <0.00200 | <0.00200 | <0.00200 | <0.00200 |
| total xylenes | 58 | 9.9 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **27.8** | 0.0730 | <0.00200 | <0.00200 | <0.00200 | <0.00200 |
| 1,2,4-trimethylbenzene | 30 | 0.0081 | <0.00200 | <0.00200 | 0.00452 | **0.0131** | **28.0** | **0.0747** | <0.00200 | **0.0134** | **0.0108** | <0.00200 |
| 1,3,5-trimethylbenzene | 27 | 0.0087 | <0.00200 | <0.00200 | **0.0950** | **0.120** | **8.27** | **0.0506** | <0.00200 | **0.0113** | <0.00200 | <0.00200 |
| naphthalene | 2 | 0.0038 | <0.00125 | <0.00121 | **0.109** | <0.00369 | **3.15** | **0.0432** | <0.00376 | **0.00950** | **0.00456** | <0.00389 |
| acenaphthene | 360 | 0.55 | <0.00125 | <0.00121 | 0.0121 | <0.00369 | 0.0867 | 0.00376 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| anthracene | 1800 | 5.8 | <0.00125 | <0.00121 | <0.00377 | <0.00369 | <0.00127 | <0.00376 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| benz(a)anthracene | 1.1 | 0.011 | <0.00125 | <0.00121 | <0.00377 | <0.00369 | <0.00127 | 0.00489 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| benzo(a)pyrene | 0.11 | 0.24 | <0.00125 | <0.00121 | <0.00377 | 0.00258 | <0.00127 | 0.00602 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| benzo(b)fluoranthene | 1.1 | 0.3 | <0.00125 | <0.00121 | 0.00415 | 0.00664 | 0.0326 | 0.0102 | <0.00376 | 0.00246 | <0.00380 | <0.00389 |
| benzo(k)fluoranthene | 11 | 2.9 | <0.00125 | <0.00121 | <0.00377 | 0.6060 | <0.00127 | 0.00376 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| chrysene | 110 | 9 | <0.00125 | <0.00121 | <0.00377 | <0.00369 | <0.00127 | 0.0169 | <0.00376 | 0.00598 | <0.00380 | <0.00389 |
| dibenzo(a,h)anthracene | 0.11 | 0.096 | <0.00125 | <0.00121 | <0.00377 | 0.00221 | <0.00127 | 0.00263 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| fluoranthene | 240 | 8.9 | <0.00125 | <0.00121 | 0.00678 | 0.00553 | 0.0437 | 0.0199 | <0.00376 | 0.00352 | 0.00304 | <0.00389 |
| fluorene | 240 | 0.54 | <0.00125 | <0.00121 | 0.139 | 0.0232 | **0.683** | 0.0263 | <0.00376 | 0.00809 | 0.00228 | <0.00389 |
| indeno(1,2,3-cd)pyrene | 1.1 | 0.98 | <0.00125 | <0.00121 | <0.00377 | <0.00369 | <0.00127 | 0.00451 | <0.00376 | <0.00352 | <0.00380 | <0.00389 |
| pyrene | 180 | 1.3 | <0.00125 | <0.00121 | 0.0106 | 0.00996 | 0.0691 | 0.0169 | <0.00376 | 0.00352 | 0.00342 | <0.00389 |
| 1-methylnaphthalene | 18 | 0.006 | <0.00125 | <0.00121 | **0.878** | <0.00369 | **5.46** | **0.142** | <0.00376 | **0.0433** | **0.0114** | <0.00389 |
| 2-methylnaphthalene | 24 | 0.019 | 0.00227 | <0.00121 | **1.23** | <0.00369 | **10.1** | **0.198** | <0.00376 | **0.0510** | 0.0182 | <0.00389 |

| Metals in Soils (mg/kg) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| arsenic | 0.68 | 0.29 | 3.83 | 4.68 | 3.81 | 3.69 | 4.02 | 4.71 | 3.11 | 4.57 | 3.53 | 3.97 |
| barium | 15000 | 82 | 109 | 107 | 88.6 | 89.9 | 94.4 | 111 | 83.2 | 135 | 96.7 | 101 |
| cadmium | 71 | 0.38 | 0.341 | 0.171 | 0.147 | 0.130 | 0.146 | 0.169 | 0.114 | 0.219 | 0.145 | 0.147 |
| chromium (VI) | 0.3 | 0.00067 | <0.139 | <0.114 | <0.0988 | <0.107 | <0.113 | <0.111 | <0.0908 | <0.148 | <0.144 | <0.133 |
| copper | 3100 | 46 | 23.1 | 11.6 | <9.31 | <9.35 | 9.19 | 12.8 | <9.55 | 11.0 | <9.95 | 10.3 |
| lead | 400 | 14 | **56.3** | 12.1 | 8.53 | 7.14 | 9.11 | 11.8 | 9.75 | 9.71 | 10.5 | 13.6 |
| nickel | 1500 | 26 | 9.46 | 12.7 | 8.95 | 8.38 | 8.88 | 12.5 | 6.85 | 12.0 | 8.62 | 10.8 |
| selenium | 390 | 0.26 | <0.256 | <0.254 | <0.242 | <0.243 | <0.235 | <0.245 | <0.248 | <0.230 | <0.259 | <0.258 |
| silver | 390 | 0.8 | 0.139 | <0.0976 | <0.0931 | <0.0935 | <0.0905 | <0.0943 | <0.0955 | <0.0884 | <0.0995 | <0.0994 |
| zinc | 23000 | 370 | 130 | 53.4 | 36.2 | <34.6 | 36.9 | 48.0 | <35.3 | 44.5 | 37.2 | 47.2 |

**Notes**

| | |
|---|---|
| ECMC | Colorado Energy and Carbon Management Commission |
| RSSL | Residential Soil Screening Level |
| GWSSL | Protection of Groundwater Soil Screening Level |
| -- | not applicable |
| ppm | parts per million |
| TPH | total petroleum hydrocarbons |
| mg/kg | milligrams per kilogram |
| GRO | gasoleine range organics |
| DRO | diesel range organics |
| ORO | oil range organics |
| EC | electrical conductivity |
| mmhos/cm | millimhos per centimeter |
| SAR | sodium adsorption ratio |
| mg/L | milligrams per liter |
| < | less than laboratory reporting limit |
| **bold** | result exceeds the applicable standard |
| **bold** | result exceeds the applicable standard |
| | reported detection limit is higher than standard |

**Table 3**
**Background Soil Sample Analytical Results**
**Extraction Oil & Gas, Inc.**
**SITE NAME: Amoco 44-17**
**Remediation Project # 38361**

| Constituent of Concern | ECMC Table 915-1 RSSL's | ECMC Table 915-1 GWSSL's | Results | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Name | | | BG01 @ 3' | BG01 @ 6' | BG02 @ 3' | BG02 @ 6' | BG03 @ 3' | BG03 @ 6' | BG04 @ 3' | BG04 @ 6' | BG05 @ 3' | BG05 @ 6' |
| Date | | | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 | 2/4/2025 |
| PID (ppm) | | | 29.5 | 3.1 | 11.8 | 1.5 | 6.8 | 1.5 | 2.2 | 1.2 | 2.3 | 1.2 |
| Depth (feet) | | | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 3 | 6 |
| **Soil Suitability for Reclamation** | | | | | | | | | | | | |
| EC (mmhos/cm) | 4 | | 1.08 | 3.63 | 2.76 | 3.74 | 5.66 | 2.38 | 1.67 | 3.87 | 3.41 | 4.55 |
| SAR (ratio) | 6 | | 2.88 | 5.97 | 5.23 | 4.24 | 6.42 | 7.66 | 8.46 | 10.2 | 8.13 | 8.43 |
| pH (units) | 6-8.3 | | 8.23 | 8.20 | 8.27 | 8.06 | 8.09 | 8.36 | 8.47 | 8.34 | 8.24 | 8.20 |
| boron (mg/L) | 2 | | 0.197 | 1.24 | 0.960 | 0.251 | 3.04 | 6.36 | 3.68 | 5.74 | 1.50 | 3.33 |
| **Metals in Soils (mg/kg)** | | | | | | | | | | | | |
| arsenic | 0.68 | 0.29 | 4.03 | 7.38 | 6.49 | 4.11 | 4.42 | 8.47 | 5.86 | 5.05 | 4.34 | 4.57 |
| barium | 15000 | 82 | 164 | 164 | 163 | 102 | 116 | 697 | 262 | 197 | 100 | 119 |
| cadmium | 71 | 0.38 | 0.215 | 0.159 | 0.377 | 0.182 | 0.137 | 0.185 | 0.144 | 0.183 | 0.103 | <0.0990 |
| chromium (VI) | 0.3 | 0.00067 | <0.114 | <0.129 | <0.127 | <0.173 | <0.138 | <0.125 | <0.119 | <0.145 | <0.165 | <0.132 |
| copper | 3100 | 46 | 12.6 | 15.7 | 12.0 | 9.55 | 11.0 | 20.6 | 13.8 | ND | 10.6 | 10.6 |
| lead | 400 | 14 | 12.3 | 12.9 | 11.7 | 10.2 | 9.33 | 16.4 | 12.4 | 8.06 | 8.98 | 9.21 |
| nickel | 1500 | 26 | 11.3 | 17.3 | 13.2 | 8.43 | 11.0 | 23.2 | 14.3 | 10.1 | 10.3 | 13.7 |
| selenium | 390 | 0.26 | <0.247 | <0.246 | 0.773 | <0.240 | <0.244 | <0.254 | <0.249 | <0.243 | <0.243 | <0.257 |
| silver | 390 | 0.8 | <0.0948 | <0.0946 | <0.0921 | <0.0922 | <0.0939 | <0.0976 | <0.0958 | <0.0936 | <0.0933 | <0.0990 |
| zinc | 23000 | 370 | 57.8 | 67.3 | 66.2 | 40.0 | 43.5 | 75.8 | 44.1 | 34.9 | 41.1 | 41.7 |

**Notes**

| | |
|---|---|
| ECMC | Colorado Energy and Carbon Management Commission |
| RSSL | Residential Soil Screening Level |
| GWSSL | Protection of Groundwater Soil Screening Level |
| ppm | parts per million |
| mg/kg | milligrams per kilogram |
| EC | electrical conductivity |
| mmhos/cm | millimhos per centimeter |
| SAR | sodium adsorption ratio |
| mg/L | milligrams per liter |
| < | less than laboratory reporting limit |
| | result exceeds the applicable standard |
| | result exceeds the applicable standard |
| | reported detection limit is higher than standard |