Addendum 2
Final Design Report
Environmental Components for
Globeville Landing Outfall Project

Vasquez Boulevard/Interstate 70 Site,
Operable Unit #2 Removal Action

Prepared for:

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November 28, 2016
TABLE OF CONTENTS

1 INTRODUCTION .............................................................................................................. 1
  1.1 Background................................................................................................. 1
  1.2 Addendum Organization ................................................................... 1
2 FIELD INVESTIGATION ............................................................................................. 3
3 RESULTS AND RECOMMENDATIONS ................................................................. 5
REFERENCES ............................................................................................................. 6

LIST OF TABLES

Table 1 – Data Summary, Supplemental Soil Sampling Program

LIST OF FIGURES

Sheet 1 of 1 – Globeville Landing Outfall Project, Phase 1A

LIST OF APPENDICES

Appendix A – Laboratory Analytical Results
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>bcgs</td>
<td>below current ground surface</td>
</tr>
<tr>
<td>CDPHE</td>
<td>Colorado Department of Public Health and Environment</td>
</tr>
<tr>
<td>EMSI</td>
<td>Engineering Management Support, Inc.</td>
</tr>
<tr>
<td>Ft</td>
<td>feet</td>
</tr>
<tr>
<td>GLO</td>
<td>Globeville Landing Outfall</td>
</tr>
<tr>
<td>HASP</td>
<td>Health and Safety Plan</td>
</tr>
<tr>
<td>mg/kg</td>
<td>milligrams per kilogram</td>
</tr>
<tr>
<td>OD</td>
<td>Outside Diameter</td>
</tr>
<tr>
<td>OU</td>
<td>Operable Unit</td>
</tr>
<tr>
<td>SFSP</td>
<td>Supplemental Field Sampling Plan</td>
</tr>
<tr>
<td>UPRR</td>
<td>Union Pacific Railroad</td>
</tr>
<tr>
<td>USEPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
</tbody>
</table>
1 INTRODUCTION

1.1 Background

This Addendum 2 to the Final Design Report was prepared on behalf of the City and County of Denver (Respondent) to assess lead and arsenic concentrations in land affected by the Globeville Landing Outfall construction, taking place in a portion of the Vasquez Boulevard/Interstate 70 (VB/I70) Superfund Site Operable Unit 2 (OU2), and to further clarify areas that may exceed soil cleanup action levels. In accordance with the Supplemental Field Sampling Plan (SFSP) (EMSI, 2016a), soil was sampled from the following areas:

1) Shallow soils along a narrow tract of land that was formerly owned by the Union Pacific Railroad (UPRR) and is currently owned by the City and planned to be annexed into Globeville Landing Park. The proposed finished grades in this area are planned to be at or near existing grades.

2) Deeper soils immediately underlying proposed finished grades within Globeville Landing Park for the Globeville Landing Outfall (GLO) project.

The objective of the sampling effort was to characterize lead and arsenic levels in the upper three feet of proposed finished grade soils to determine if these proposed surface soils exceed lead or arsenic cleanup action levels. This interval was selected to assure that these uppermost soils do not present a future risk to workers or public health should they be disturbed.

Note: per the GLO design documents, the upper 6 inches of finished-grade soil in the Globeville Landing Park where the deeper soil borings are located will be replaced with clean topsoil from Globeville Landing Park that will have been removed and stockpiled during the initial phases of GLO construction. Consequently, the sampling depth for the deeper borings was 0.5 feet and 3.0 feet below the base of topsoil, as specified in the design documents.

The U.S. Environmental Protection Agency (USEPA) and Colorado Department of Public Health and Environment (CDPHE) have approved use of soil cleanup action levels for this site. These levels are 400 milligrams per kilogram (mg/kg) for lead and 70 mg/kg for arsenic.

All field and analytical activities conducted for this investigation were performed in accordance with the SFSP, unless otherwise noted in this Addendum.

1.2 Addendum Organization

This Addendum contains three sections and one appendix. Following this introduction, the remaining sections consist of:
• Section 2 – Field Investigation
• Section 3 – Results and Recommendations

Appendix A contains laboratory analytical results.
2 FIELD INVESTIGATION

Prior to the start of field work, all project personnel read, understood, and agreed to comply with provisions of the Health and Safety Plan (HASP) (EMSI, 2015, Final Design Report - Appendix B). Necessary safety equipment was readily available at the Site at all times.

Prior to drilling, boreholes were located by a licensed surveyor and EMSI representative, and the locations were marked with painted stakes. After locating the boreholes, the Utility Notification Center of Colorado, Denver Wastewater Management Division, Denver Parks Division, and the Metro Wastewater Reclamation District were contacted to clear borehole locations. If a location was found to be within 10 feet of a utility corridor, the borehole location was moved. Final borehole locations are shown on the attached Sheet 1 of 1.

Initially, ten shallow borings (SDWI-43 through SWDI-52) and twenty-six (26) deeper borings (SWDI-17 through SWDI-42) were proposed. The locations of some borings were necessarily modified to avoid contact with the Delgany sanitary sewer, telecommunication cables, and electrical utility lines that extend through the study areas. As a result, only nine shallow borings were drilled (SWDI-43 through SWDI-51). All of the proposed deeper borings were able to be drilled.

Three composite samples were collected from each of the shallow borings; one from between 0 and 1 feet below current ground surface (bcgs); one from between 1 and 2 feet bcgs; and one from between 2 and 3 feet bcgs. One composite sample was collected from each of the deeper borings to represent the 2.5-foot soil interval sampled. Sampling intervals are summarized in the attached Table 1.

Shallow boreholes were advanced with a 3-ft long, 2-inch outside diameter Geoprobe™ core barrel equipped with a 3-ft long, 1.63-inch diameter internal plastic sampling sleeve. As the core barrel/sampling sleeve assembly was advanced, soil core was retained in the sleeve. At completion of the core run, the coring assembly was extracted and the coring sleeve was removed from the core barrel. The sleeve was opened and composite samples from the three target intervals (0-1 ft, 1-2 ft, and 2-3 ft) were collected.

Deeper boreholes were advanced with the same Geoprobe™ rig and sampling barrels as the shallow borings, except the sampling barrel was initially equipped with a drive point. The coring assembly with drive point was advanced to the top of the sampling interval. At that depth, the drive point was extracted and the sampling sleeve was inserted. The coring assembly was then advanced another 2.5 feet to fill the sampling sleeve. At completion of the core run, the coring assembly was extracted, the coring sleeve was removed, and soil core from the entire run was composited into a single sample.

At the ground surface, core samples were logged using the ASTM Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) [ASTM D2488-06].
In addition, samples were examined for man-made or naturally-occurring debris, and odor.

At completion of sample collection, each borehole was abandoned by backfilling with bentonite to the ground surface.

Soil from each sampling interval was composited using a plastic mixing bowl and plastic spatula. The mixing bowl and spatula were decontaminated between sampling events. A sample of the composite (a minimum of 20 grams) was then placed in a 4-ounce glass container, labeled, bubble-wrapped, and placed in a cooler packed with ice. The samples were then delivered to TestAmerica-Denver under chain of custody. There, the samples were analyzed for lead and arsenic by Method SW-846 6010C.
3 RESULTS AND RECOMMENDATIONS

A summary of drilling observations, geologic and general characterizations, and lead and arsenic concentrations in sampled soils is presented in the attached Table 1. Laboratory analytical reports are also provided in Appendix A.

As shown in Table 1, lead exceeded its cleanup action level in five of the borings (SWDI-17, 39, 42, 43, and 51) and arsenic exceeded its cleanup action level in two of the borings (SWDI-43 and 51). The subject boring locations are shown on Sheet 1. Samples from borings SWDI-17, 39, and 42 were collected from depths of between 10 and 16.3 feet bgs. Samples from borings SWDI-43 and 51 were collected from between 0 and 3 feet bgs.

Soil and debris material types from which the elevated metals were present ranged from brown and grey silt with some clay and sand (SWDI-17), to black fly ash and slag (SWDI-39 and 42), to brown clay with silt and fine sand (SWDI-43), to brown sand with silt (SWDI-51).

An approximation of the lateral extent of soil and debris that exceeded cleanup action levels is shown in the shaded areas on Sheet 1. Most areal limits were estimated by linear extrapolation between known data points. This involved use of metals data from adjacent borings that were sampled from similar depths. In areas where linear extrapolation could not be performed, areal limits were estimated based on known boundary conditions, as noted on the figure, and professional judgement. The block-like configuration of the shaded areas was selected to accommodate heavy equipment that will be used to over-excavate the subject material. In all cases, the areal limits are estimated and will need to be confirmed during excavation based on 1) the areal limits of fly ash and slag identified at SWDI-39 and 42; and 2) professional judgement of the Competent Person overseeing the excavation, subject to approval by the QA Official. However, no areal limit will extend beyond adjacent borings where the cleanup action levels are not exceeded. Materials management procedures will follow those described in Section 4.1 of the Materials Management Plan (EMSI, 2015, Final Design Report - Appendix A).

Based on the information presented in this report, the areas of over-excavation recommended to address the objectives stated in Section 1.1 of this report are illustrated in Sheet 1. The recommended over-excavation thickness in all areas is three feet beneath the proposed finished grades specified in the design documents. Based on the sampling results described above, the recommended over-excavation depth intervals are as follows:

<table>
<thead>
<tr>
<th>Area (vicinity of boring)</th>
<th>Depth Below Current Grade (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWDI-17</td>
<td>10 - 13</td>
</tr>
<tr>
<td>SWDI-39</td>
<td>13.5 - 16.5</td>
</tr>
<tr>
<td>SWDI-42</td>
<td>12 - 15</td>
</tr>
<tr>
<td>SWDI-43 and 51</td>
<td>0 - 3</td>
</tr>
</tbody>
</table>
REFERENCES


EMSI, 2016a. Supplemental Field Sampling Plan, Globeville Landing Outfall Project Soils, Vasquez Boulevard/Interstate 70 Site, Operable Unit #2, prepared for City and County of Denver, October 11, 2016.
<table>
<thead>
<tr>
<th>BORING</th>
<th>DRILLING OBSERVATIONS</th>
<th>SAMPLE INTERVAL (ft)</th>
<th>GEOLOGIC CHARACTERIZATION</th>
<th>LEAD and ARSENIC CONTENT (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWDI-17</td>
<td>Fast penetration at first, slowing with depth</td>
<td>10 – 12.5</td>
<td>ML: SILT with some clay and sand, brown and grey, stiff, moist. No odor.</td>
<td>Pb = 580, As = 14</td>
</tr>
<tr>
<td>SWDI-18</td>
<td>Medium penetration</td>
<td>8.5 – 11</td>
<td>CL: CLAY with some silt and sand, dk grey, stiff, moist. No odor.</td>
<td>Pb = 140, As = 5.9</td>
</tr>
<tr>
<td>SWDI-19</td>
<td>Medium penetration</td>
<td>10.5 – 13</td>
<td>CL: CLAY with silt and sand, some brick fragments, dk grey, stiff, moist. No odor.</td>
<td>Pb = 170, As = 41</td>
</tr>
<tr>
<td>SWDI-20</td>
<td>Slow penetration</td>
<td>8.5 – 11</td>
<td>SM: SAND, well graded with silt and some cobbles, slag fragments, grey, loose, moist. No odor.</td>
<td>Pb = 69, As = 5.9</td>
</tr>
<tr>
<td>SWDI-21</td>
<td>Fast penetration</td>
<td>6.3 – 8.8</td>
<td>SM: SAND, well graded with gravel and crushed brick, dk grey, loose, moist. No odor</td>
<td>Pb = 74, As = 6.2</td>
</tr>
<tr>
<td>SWDI-22</td>
<td>Fast penetration</td>
<td>6.4 – 8.9</td>
<td>SM: SAND, poorly graded with silt and clay, brown, loose, moist. No odor</td>
<td>Pb = 69, As = 7.8</td>
</tr>
<tr>
<td>SWDI-23</td>
<td>Slow penetration</td>
<td>19.1 – 21.6</td>
<td>SP: SAND, poorly graded, brown, loose, moist (15.5 – 16.0 ft). No odor</td>
<td>Pb = 11, As = 8.2</td>
</tr>
<tr>
<td>SWDI-24</td>
<td>Fast penetration at first, decreasing to very slow at total depth</td>
<td>26.5 – 28.5</td>
<td>Weathered shale (Denver Blue) (26 – 28 ft). No odor</td>
<td>Pb = 19, As = 4.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unweathered shale (Denver Blue) (28 – 28.5 ft). No odor</td>
<td></td>
</tr>
<tr>
<td>SWDI-25</td>
<td>Slow penetration</td>
<td>15.5 – 18</td>
<td>SP: SAND, poorly graded, brown, loose, moist (15.5 – 16.0 ft). No odor</td>
<td>Pb = 7.9, As = 2.9</td>
</tr>
</tbody>
</table>
Table 1 - Data Summary
Supplemental Soil Sampling Program
Globeville Landing Outfall Project

<table>
<thead>
<tr>
<th>BORING</th>
<th>DRILLING OBSERVATIONS</th>
<th>SAMPLE INTERVAL (ft)</th>
<th>GEOLOGIC CHARACTERIZATION</th>
<th>LEAD and ARSENIC CONTENT (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWDI-26</td>
<td>Fast penetration</td>
<td>15.8 – 18.3</td>
<td>FLY ASH, black, loose, wet at 16 feet. No odor</td>
<td>Pb = 330, As = 6.9</td>
</tr>
<tr>
<td>SWDI-27</td>
<td>Slow penetration</td>
<td>11.1 – 13.6</td>
<td>SW: SAND, well graded with some gravel, trace clay, brown, loose, moist.</td>
<td>Pb = 13, As = 1.8</td>
</tr>
<tr>
<td>SWDI-28</td>
<td>Medium penetration until sample zone, then slowed in last 2 feet. Refusal at 12.5 ft.</td>
<td>11.9 – 12.5</td>
<td>Weathered shale (Denver Blue) (11.0 – 12.4 ft). No odor Unweathered shale (Denver Blue) (12.4 – 12.5 ft). No odor</td>
<td>Pb = 12, As = 3.8</td>
</tr>
<tr>
<td>SWDI-29</td>
<td>Slow penetration</td>
<td>6.5 – 9</td>
<td>SP: SAND, poorly graded fine, trace gravel, brown, loose, moist. No odor</td>
<td>Pb = 4.0, As = 2.5</td>
</tr>
<tr>
<td>SWDI-30</td>
<td>Slow penetration</td>
<td>7.5 – 10</td>
<td>Weathered shale (Denver Blue), moist. No odor</td>
<td>Pb = 23, As = 3.1</td>
</tr>
<tr>
<td>SWDI-31</td>
<td>Slow penetration</td>
<td>7.4 – 9.9</td>
<td>CL: CLAY with coarse sand and silt, dk brown, stiff, wet. No odor.</td>
<td>Pb = 16, As = 3.5</td>
</tr>
<tr>
<td>SWDI-32</td>
<td>Medium penetration at first, slowing with depth</td>
<td>7.8 – 10.3</td>
<td>Mixture of sand, clay, silt, gravel, and fly ash, black, loose, moist. No odor.</td>
<td>Pb = 150, As = 4.8</td>
</tr>
<tr>
<td>SWDI-33</td>
<td>Medium penetration at first, slowing with depth</td>
<td>13.6 – 16.1</td>
<td>Mixture of sand, clay, silt, gravel, and fly ash, black, loose, moist. No odor.</td>
<td>Pb = 150, As = 7.5</td>
</tr>
<tr>
<td>SWDI-34</td>
<td>Slow penetration</td>
<td>9.8 – 12.3</td>
<td>SW: SAND, well graded with trace gravel, brown, loose, wet. No odor</td>
<td>Pb = 2.6, As = 1.9</td>
</tr>
</tbody>
</table>
Table 1 - Data Summary  
Supplemental Soil Sampling Program  
Globeville Landing Outfall Project

<table>
<thead>
<tr>
<th>BORING</th>
<th>DRILLING OBSERVATIONS</th>
<th>SAMPLE INTERVAL (ft)</th>
<th>GEOLOGIC CHARACTERIZATION</th>
<th>LEAD and ARSENIC CONTENT (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWDI-35</td>
<td>Slow penetration</td>
<td>9.9 – 12.4</td>
<td>SW: SAND, well graded with trace gravel, brown, loose, wet. No odor</td>
<td>Pb = 56, As = 5.9</td>
</tr>
<tr>
<td>SWDI-36</td>
<td>Slow penetration</td>
<td>5 – 7.5</td>
<td>CL: CLAY with sand and gravel, brown, stiff, moist. No odor</td>
<td>Pb = 190, As = 23</td>
</tr>
<tr>
<td>SWDI-37</td>
<td>Slow penetration</td>
<td>14.4 – 16.9</td>
<td>Mixture of sand, cobbles, fly ash, and trace slag, black, loose, moist. No odor</td>
<td>Pb = 160, As = 32</td>
</tr>
<tr>
<td>SWDI-38</td>
<td>Slow penetration</td>
<td>16.7 – 19.2</td>
<td>Mixture of sand, cobbles, fly ash, and trace slag, black, loose, moist. No odor</td>
<td>Pb = 350, As = 8.2</td>
</tr>
<tr>
<td>SWDI-39</td>
<td>Fast penetration at first, slowing with depth</td>
<td>13.8 – 16.3</td>
<td>Fly ash and slag (black) and brick fragments (red), loose, moist. No odor</td>
<td>Pb = 780, As = 20</td>
</tr>
<tr>
<td>SWDI-41</td>
<td>Fast penetration</td>
<td>8.8 – 11.3</td>
<td>SM: SAND with silt, dk brown, loose, wet. No odor.</td>
<td>Pb = 88, As = 15</td>
</tr>
<tr>
<td>SWDI-42</td>
<td>Fast penetration</td>
<td>12.5 – 15</td>
<td>Fly ash (black), woody fragments, soft, moist. No odor</td>
<td>Pb = 490, As = 30</td>
</tr>
</tbody>
</table>
| SWDI-43 | Slow penetration       | 0 – 3                | CL: CLAY with silt and fine sand, brown, stiff, moist. Crushed concrete between 2.2 and 2.8 ft. No odor | 0-1 ft: Pb = 290, As = 55  
1-2 ft: Pb = 990, As = 110  
2-3 ft: Pb = 200, As = 17 |
<table>
<thead>
<tr>
<th>BORING</th>
<th>DRILLING OBSERVATIONS</th>
<th>SAMPLE INTERVAL (ft)</th>
<th>GEOLOGIC CHARACTERIZATION</th>
<th>LEAD and ARSENIC CONTENT (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWDI-44</td>
<td>Fast penetration</td>
<td>0 – 3</td>
<td>ML: SILT, light brown, loose, dry. No odor</td>
<td>0-1 ft: Pb = 17, As = 4.4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 13, As = 3.5</td>
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<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 96, As = 8.5</td>
</tr>
<tr>
<td>SWDI-45</td>
<td>Fast penetration, slowing with depth</td>
<td>0 – 3</td>
<td>ML: SILT, light brown, loose, dry. No odor</td>
<td>0-1 ft: Pb = 7.5, As = 3.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 7.9, As = 3.0</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 7.7, As = 3.0</td>
</tr>
<tr>
<td>SWDI-46</td>
<td>Fast penetration, slowing with depth</td>
<td>0 – 3</td>
<td>ML: SILT, light brown, loose, dry. No odor</td>
<td>0-1 ft: Pb = 17, As = 4.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 13, As = 3.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 23, As = 4.4</td>
</tr>
<tr>
<td>SWDI-47</td>
<td>Slow penetration</td>
<td>0 – 3</td>
<td>CL: CLAY with silt, brown, stiff, sl moist (0 – 2 ft). No odor. SP: SAND, fine - poorly sorted, loose, sl moist (2 – 3 ft). No odor</td>
<td>0-1 ft: Pb = 250, As = 35</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 380, As = 9.5</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 300, As = 13</td>
</tr>
<tr>
<td>SWDI-48</td>
<td>Fast penetration</td>
<td>0 – 3</td>
<td>CL: CLAY with silt and fine sand, brown, stiff, sl moist (0 - 0.5 ft). No odor Fly ash, black, loose, moist (0.5 – 3 ft). No odor</td>
<td>0-1 ft: Pb = 120, As = 10</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 56, As = 6.5</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 7.4, As = 3.1</td>
</tr>
<tr>
<td>SWDI-49</td>
<td>Fast penetration</td>
<td>0 – 3</td>
<td>CL: CLAY with silt and fine sand, brown, stiff, moist. No odor</td>
<td>0-1 ft: Pb = 23, As = 4.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 14, As = 3.8</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 15, As = 5.3</td>
</tr>
<tr>
<td>SWDI-50</td>
<td>Fast penetration</td>
<td>0 – 3</td>
<td>SM: SAND with silt, dk brown, loose, moist. No odor</td>
<td>0-1ft: Pb = 42, As = 9.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 82, As = 5.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 26, As = 2.7</td>
</tr>
<tr>
<td>SWDI-51</td>
<td>Fast penetration</td>
<td>0 - 3</td>
<td>SM: SAND with silt, dk brown, loose, moist. No odor</td>
<td>0-1ft: Pb = 2,800, As = 440</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-2 ft: Pb = 1,100, As = 170</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-3 ft: Pb = 470, As = 12</td>
</tr>
</tbody>
</table>

Legend: **Green shading** = Less than Standard; **light blue shading** = Exceeds Standard.
FIGURES

(Sheet 1 of 1)
Over-excavate a depth of 3 feet below proposed grade at locations where lead or arsenic exceed soil cleanup action levels. Action levels were exceeded at SWDI-17, SWDI-39, SWDI-42, SWDI-43, and SWDI-51. Approximate lateral limits of over-excavation shall be as shown. Limits will be finalized in the field based on soil and debris that are visibly similar to the soil and debris that was sampled at the subject boring location, but not beyond adjacent borings.

Proposed climbing wall. Over-excavation of soil not included north of wall since the proposed grades are higher than south of wall. The proposed grades north of wall are at depths that were previously determined No Further Action soils.
The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.
# Table of Contents

- Cover Page .................................................. 1
- Table of Contents ........................................... 2
- Definitions .................................................... 3
- Case Narrative ............................................... 4
- Detection Summary ......................................... 5
- Method Summary ............................................. 9
- Sample Summary ............................................. 10
- Client Sample Results ..................................... 11
- QC Sample Results .......................................... 19
- QC Association ............................................... 21
- Chronicle ...................................................... 24
- Certification Summary ..................................... 36
- Chain of Custody ............................................. 37
- Receipt Checklists .......................................... 40
# Qualifiers

## Metals

<table>
<thead>
<tr>
<th>Qualifier</th>
<th>Qualifier Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>MS and/or MSD Recovery is outside acceptance limits.</td>
</tr>
<tr>
<td>F2</td>
<td>MS/MSD RPD exceeds control limits</td>
</tr>
<tr>
<td>J</td>
<td>Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.</td>
</tr>
</tbody>
</table>

## Glossary

These commonly used abbreviations may or may not be present in this report.

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%R</td>
<td>Percent Recovery</td>
</tr>
<tr>
<td>CFL</td>
<td>Contains Free Liquid</td>
</tr>
<tr>
<td>CNF</td>
<td>Contains no Free Liquid</td>
</tr>
<tr>
<td>DER</td>
<td>Duplicate error ratio (normalized absolute difference)</td>
</tr>
<tr>
<td>Dil Fac</td>
<td>Dilution Factor</td>
</tr>
<tr>
<td>DL, RA, RE, IN</td>
<td>Indicates a Dilution, Re-analysis, Re-extraction, or additional I</td>
</tr>
<tr>
<td>DLC</td>
<td>Decision level concentration</td>
</tr>
<tr>
<td>MDA</td>
<td>Minimum detectable activity</td>
</tr>
<tr>
<td>EDL</td>
<td>Estimated Detection Limit</td>
</tr>
<tr>
<td>MDC</td>
<td>Minimum detectable concentration</td>
</tr>
<tr>
<td>MDL</td>
<td>Method Detection Limit</td>
</tr>
<tr>
<td>ML</td>
<td>Minimum Level (Dioxin)</td>
</tr>
<tr>
<td>NC</td>
<td>Not Calculated</td>
</tr>
<tr>
<td>ND</td>
<td>Not detected at the reporting limit (or MDL or EDL if shown)</td>
</tr>
<tr>
<td>PQL</td>
<td>Practical Quantitation Limit</td>
</tr>
<tr>
<td>QC</td>
<td>Quality Control</td>
</tr>
<tr>
<td>RER</td>
<td>Relative error ratio</td>
</tr>
<tr>
<td>RL</td>
<td>Reporting Limit or Requested Limit (Radiochemistry)</td>
</tr>
<tr>
<td>RPD</td>
<td>Relative Percent Difference, a measure of the relative difference between two points</td>
</tr>
<tr>
<td>TEF</td>
<td>Toxicity Equivalent Factor (Dioxin)</td>
</tr>
<tr>
<td>TEQ</td>
<td>Toxicity Equivalent Quotient (Dioxin)</td>
</tr>
</tbody>
</table>
CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: VB/170 GLO - Soils Testing

Report Number: 280-89851-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The samples were received on 10/18/2016; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.0º C and 4.2º C.

Holding Times

All holding times were met.

Method Blanks

All Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Sample SWDI-48-0-1 was selected to fulfill the laboratory batch quality control requirements for Method 6010C. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Total Lead above the upper control limit. In addition, the RPD result was outside the RPD limit for Total Lead. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

Sample SWDI-50-1-2 was selected to fulfill the laboratory batch quality control requirements for Method 6010C. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Total Lead above the upper control limit. In addition, the RPD result was outside the RPD limit for Total Lead. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.
## Detection Summary

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing  

### Client Sample ID: SWDI-48-0-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>10 F1 F2</td>
<td>1.7</td>
<td>0.57 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>120</td>
<td>0.78</td>
<td>0.23 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-48-1-2

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>6.5 F1 F2</td>
<td>2.2</td>
<td>0.72 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>56</td>
<td>0.98</td>
<td>0.29 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-48-2-3

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.1 F1 F2</td>
<td>2.5</td>
<td>0.82 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>7.1</td>
<td>1.1</td>
<td>0.34 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-47-0-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>35 F1 F2</td>
<td>1.7</td>
<td>0.56 mg/Kg</td>
<td>1 6010C Total/NA</td>
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<tr>
<td>Lead</td>
<td>250</td>
<td>0.77</td>
<td>0.23 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-47-1-2

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>9.5 F1 F2</td>
<td>1.8</td>
<td>0.59 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>380</td>
<td>0.80</td>
<td>0.24 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-47-2-3

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>13 F1 F2</td>
<td>1.7</td>
<td>0.56 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>300</td>
<td>0.76</td>
<td>0.23 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-18

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>5.9 F1 F2</td>
<td>1.8</td>
<td>0.53 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>140</td>
<td>0.72</td>
<td>0.22 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-19

<table>
<thead>
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<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>41 F1 F2</td>
<td>1.7</td>
<td>0.57 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>170</td>
<td>0.78</td>
<td>0.23 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-17

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac D Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>14 F1 F2</td>
<td>1.7</td>
<td>0.55 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>580</td>
<td>0.75</td>
<td>0.22 mg/Kg</td>
<td>1 6010C Total/NA</td>
</tr>
</tbody>
</table>

This Detection Summary does not include radiochemical test results.
# Detection Summary

**Client:** Engineering Management Support, Inc.

**Project/Site:** VB/170 GLO - Soils Testing

---

**Client Sample ID: SWDI-20**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>5.9</td>
<td>2.0</td>
<td>0.65 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>69</td>
<td>0.88</td>
<td>0.26 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-25**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>2.9</td>
<td>1.8</td>
<td>0.53 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>7.9</td>
<td>0.72</td>
<td>0.22 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-41**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>15</td>
<td>1.8</td>
<td>0.59 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>88</td>
<td>0.81</td>
<td>0.24 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-51-0-1**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>440</td>
<td>1.5</td>
<td>0.50 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>2800</td>
<td>0.69</td>
<td>0.21 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-51-1-2**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>170</td>
<td>2.2</td>
<td>0.73 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>1100</td>
<td>1.0</td>
<td>0.30 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-51-2-3**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>12</td>
<td>1.5</td>
<td>0.51 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>470</td>
<td>0.69</td>
<td>0.21 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-50-0-1**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>9.7</td>
<td>1.7</td>
<td>0.56 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>42</td>
<td>0.76</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-50-1-2**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>5.4</td>
<td>1.7</td>
<td>0.57 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>82 F1 F2</td>
<td>0.78</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

**Client Sample ID: SWDI-50-2-3**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>2.7</td>
<td>1.5</td>
<td>0.48 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>26</td>
<td>0.66</td>
<td>0.20 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
<td></td>
</tr>
</tbody>
</table>

This Detection Summary does not include radiochemical test results.
<table>
<thead>
<tr>
<th>Client Sample ID: SWDI-49-0-1</th>
<th>Lab Sample ID: 280-89851-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte</td>
<td>Result</td>
</tr>
<tr>
<td>Arsenic</td>
<td>4.6</td>
</tr>
<tr>
<td>Lead</td>
<td>23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Client Sample ID: SWDI-49-1-2</th>
<th>Lab Sample ID: 280-89851-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte</td>
<td>Result</td>
</tr>
<tr>
<td>Arsenic</td>
<td>3.8</td>
</tr>
<tr>
<td>Lead</td>
<td>14</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Client Sample ID: SWDI-49-2-3</th>
<th>Lab Sample ID: 280-89851-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte</td>
<td>Result</td>
</tr>
<tr>
<td>Arsenic</td>
<td>5.3</td>
</tr>
<tr>
<td>Lead</td>
<td>15</td>
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<table>
<thead>
<tr>
<th>Client Sample ID: SWDI-42</th>
<th>Lab Sample ID: 280-89851-22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte</td>
<td>Result</td>
</tr>
<tr>
<td>Arsenic</td>
<td>30</td>
</tr>
<tr>
<td>Lead</td>
<td>490</td>
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</tbody>
</table>

<table>
<thead>
<tr>
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<th>Lab Sample ID: 280-89851-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte</td>
<td>Result</td>
</tr>
<tr>
<td>Arsenic</td>
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<tr>
<td>Lead</td>
<td>330</td>
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<th>Lab Sample ID: 280-89851-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyte</td>
<td>Result</td>
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<tr>
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</tr>
<tr>
<td>Lead</td>
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</table>

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</tr>
</thead>
<tbody>
<tr>
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<td>Result</td>
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<tr>
<td>Arsenic</td>
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<tr>
<td>Lead</td>
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<th>Lab Sample ID: 280-89851-26</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Result</td>
</tr>
<tr>
<td>Arsenic</td>
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</tr>
<tr>
<td>Lead</td>
<td>160</td>
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</tbody>
</table>

<table>
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This Detection Summary does not include radiochemical test results.
## Detection Summary

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing  
**TestAmerica Job ID:** 280-89851-1

### Client Sample ID: SWDI-33D  
**Lab Sample ID:** 280-89851-28

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**Lab Sample ID:** 280-89851-29

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**Lab Sample ID:** 280-89851-30

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**Lab Sample ID:** 280-89851-31

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**Lab Sample ID:** 280-89851-32

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*This Detection Summary does not include radiochemical test results.*
Method Summary

Client: Engineering Management Support, Inc.
Project/Site: VB/170 GLO - Soils Testing

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<td>Moisture</td>
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<td>TAL DEN</td>
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**Protocol References:**
- EPA = US Environmental Protection Agency

**Laboratory References:**
- TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
## Sample Summary

### TestAmerica Job ID: 280-89851-1

**Client:** Engineering Management Support, Inc.

*Project/Site:* VB/170 GLO - Soils Testing

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## Client Sample Results

**Method:** 6010C - Metals (ICP)

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**Date Received:** 10/18/16 09:35

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**Date Received:** 10/18/16 09:35

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**Date Received:** 10/18/16 09:35

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**Date Collected:** 10/17/16 09:45  
**Date Received:** 10/18/16 09:35

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**Date Received:** 10/18/16 09:35

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**Date Received:** 10/18/16 09:35

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**Date Received:** 10/18/16 09:35

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TestAmerica Denver

---

_page 11 of 40_  
_10/31/2016_
### Client Sample Results

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing

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# Client Sample Results

Client: Engineering Management Support, Inc.  
Project/Site: VB/170 GLO - Soils Testing  
TestAmerica Job ID: 280-89851-1

## Method: 6010C - Metals (ICP)

### Client Sample Results

**Lab Sample ID: 280-89851-17**  
**Matrix:** Solid  
**Percent Solids:** 93.9

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<th>Dil Fac</th>
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**Lab Sample ID: 280-89851-18**  
**Matrix:** Solid  
**Percent Solids:** 95.9

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<td>10/26/16</td>
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**Lab Sample ID: 280-89851-19**  
**Matrix:** Solid  
**Percent Solids:** 92.2

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**Lab Sample ID: 280-89851-20**  
**Matrix:** Solid  
**Percent Solids:** 83.3

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<td>Lead</td>
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**Lab Sample ID: 280-89851-21**  
**Matrix:** Solid  
**Percent Solids:** 82.5

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**Lab Sample ID: 280-89851-22**  
**Matrix:** Solid  
**Percent Solids:** 69.5

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**Lab Sample ID: 280-89851-23**  
**Matrix:** Solid  
**Percent Solids:** 77.0

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**Matrix:** Solid  
**Percent Solids:** 89.1

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# Client Sample Results

**TestAmerica Job ID: 280-89851-1**

**Client:** Engineering Management Support, Inc.

**Project/Site:** VB/170 GLO - Soils Testing

**Method:** 6010C - Metals (ICP)

## Client Sample ID: SWDI-38

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<td>Percent Solids: 89.5</td>
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<th>D</th>
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<td>0.1</td>
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<th>Prepared</th>
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<tbody>
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<td>Percent Moisture</td>
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<td>0.1</td>
<td>0.1</td>
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## General Chemistry

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<td>Result</td>
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<td>Percent Moisture</td>
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# QC Sample Results

**TestAmerica Denver**

**Client:** Engineering Management Support, Inc.

**Project/Site:** VB/170 GLO - Soils Testing

---

**Method:** 6010C - Metals (ICP)

**Lab Sample ID:** MB 280-347974/1-A  
**Matrix:** Solid  
**Analysis Batch:** 348634

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<th>MDL</th>
<th>Unit</th>
<th>D</th>
<th>Prepared</th>
<th>Analyzed</th>
<th>Dil Fac</th>
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</thead>
<tbody>
<tr>
<td>Arsenic</td>
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<td>2.0</td>
<td>0.66</td>
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<td>0.27</td>
<td>mg/Kg</td>
<td>10/26/16 14:45</td>
<td>10/27/16 21:07</td>
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**Lab Sample ID:** LCS 280-347974/2-A  
**Matrix:** Solid  
**Analysis Batch:** 348634

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<tbody>
<tr>
<td>Arsenic</td>
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<td>mg/Kg</td>
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<td>47.3</td>
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<td>86 - 110</td>
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**Lab Sample ID:** 280-89851-1 MS  
**Matrix:** Solid  
**Analysis Batch:** 348634

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<th>MS Qualifier</th>
<th>Unit</th>
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<td>94.8</td>
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<td>86</td>
<td>76 - 111</td>
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<tr>
<td>Lead</td>
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<td>F1 F2</td>
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<td>188</td>
<td>mg/Kg</td>
<td>133</td>
<td>70 - 200</td>
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**Lab Sample ID:** 280-89851-1 MSD  
**Matrix:** Solid  
**Analysis Batch:** 348634

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**Lab Sample ID:** MB 280-347975/1-A  
**Matrix:** Solid  
**Analysis Batch:** 348634

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<td>0.66</td>
<td>mg/Kg</td>
<td>10/26/16 14:45</td>
<td>10/27/16 22:20</td>
<td>1</td>
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<td>10/26/16 14:45</td>
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**Lab Sample ID:** LCS 280-347975/2-A  
**Matrix:** Solid  
**Analysis Batch:** 348634

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**Matrix:** Solid  
**Analysis Batch:** 348634

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TestAmerica Denver

Page 19 of 40 10/31/2016
## QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: VB/170 GLO - Soils Testing

### Method: 6010C - Metals (ICP) (Continued)

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### Method: Moisture - Percent Moisture

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# QC Association Summary

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing

## Metals

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TestAmerica Denver
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### General Chemistry

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Date Received: 10/18/16 09:35  

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Date Received: 10/18/16 09:35  

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Percent Solids: 95.2

Percent Solids: 90.3

Percent Solids: 95.6
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**Date Received:** 10/18/16 09:35

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<th>Prepared or Analyzed</th>
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<td>100 mL</td>
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### Client Sample ID: SWDI-20
**Date Collected:** 10/17/16 11:00  
**Date Received:** 10/18/16 09:35

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<th>Prepared or Analyzed</th>
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<tr>
<td>Total/NA</td>
<td>Prep</td>
<td>3050B</td>
<td>1</td>
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<td>1.453 g</td>
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<td>SEJ</td>
<td>TAL DENTotal/NA</td>
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<tr>
<td>Total/NA</td>
<td>Analysis</td>
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<td>1.245 g</td>
<td>100 mL</td>
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**Date Received:** 10/18/16 09:35

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<td>1</td>
<td>1.136 g</td>
<td>100 mL</td>
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<td>100 mL</td>
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### Client Sample ID: SWDI-41
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<th>Prepared or Analyzed</th>
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<tr>
<td>Total/NA</td>
<td>Analysis</td>
<td>6010C</td>
<td>1</td>
<td>1</td>
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<td>CRR</td>
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**Date Collected:** 10/17/16 09:00  
**Date Received:** 10/18/16 09:35

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#### Percent Solids: 93.2

### Client Sample ID: SWDI-51-1-2
**Date Collected:** 10/17/16 09:00  
**Date Received:** 10/18/16 09:35

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<th>Lab</th>
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#### Percent Solids: 88.8

### Client Sample ID: SWDI-51-2-3
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**Date Received:** 10/18/16 09:35

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Percent Solids: 82.5

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Percent Solids: 69.5

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Date Received: 10/18/16 09:35

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Percent Solids: 77.0
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**Date Received:** 10/18/16 09:35

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### Client Sample ID: SWDI-39
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**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
## Certification Summary

Client: Engineering Management Support, Inc.  
TestAmerica Job ID: 280-89851-1

### Project/Site: VB/170 GLO - Soils Testing

Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

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* Certification renewal pending - certification considered valid.
# Chain of Custody Record

## Client Information
- **Sampler:** Tim Shangraw
- **Lab PM:** Sara, Betsy A
- **Carrier Tracking No(s):**
- **COC No:** 780-58039-20486.1
- **Page:**

## Company Information
- **Company:** Engineering Management Support, Inc.
- **Address:** 7220 W. Jefferson Ave. Suite 406
- **City:** Lakewood
- **State, Zip:** CO, 80235
- **Phone:** 303-804-3426(Tel)
- **Email:** timshangraw@emsdenver.com
- **Project Name:** VB/170 Glo - Soils Testing
- **Site:** SSOWE

## Sample Identification

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<tr>
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<th>Sample Date</th>
<th>Sample Time</th>
<th>C</th>
<th>G</th>
<th>Grab</th>
<th>Preservation Code</th>
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<tr>
<td>SWD1 A2</td>
<td>2/7/16</td>
<td>11:40</td>
<td>C</td>
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## Possible Hazard Identification
- **Non-Hazard**
- **Flammable**
- **Skin Irritant**
- **Poison B**
- **Unknown**
- **Radiological**

## Sample Disposal
- **Disposal By Lab**
- **Archive For**
- **Special Instructions/QC Requirements:**

## Special Instructions/Note:
- **Return To Client**
- **Date:** 1/18/16
- **Disposal By Lab:**
- **Archive For:**
- **Special Instructions/QC Requirements:**

## Empty Kit Replenishment
- **Replenished by:**
- **Date/Time:** 1/18/16 9:35
- **Company:** EMST

## Reshipment
- **Replaced by:**
- **Date/Time:** 1/18/16
- **Company:**
- **Received by:**
- **Date/Time:**

## Cooler Temperature(s) °C and Other Remarks:
### Login Sample Receipt Checklist

**Client:** Engineering Management Support, Inc.  
**Job Number:** 280-89851-1  
**Login Number:** 89851  
**List Number:** 1  
**Creator:** True, Joshua A  
**List Source:** TestAmerica Denver

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<tr>
<th>Question</th>
<th>Answer</th>
<th>Comment</th>
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<tr>
<td>Radioactivity wasn't checked or is &lt;= background as measured by a survey meter.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample custody seals, if present, are intact.</td>
<td>True</td>
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</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or tampered with.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
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</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Is the Field Sampler's name present on COC?</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the containers received and the COC.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time (excluding tests with immediate HTs)</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample containers have legible labels.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>True</td>
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</tr>
<tr>
<td>Sample collection date/times are provided.</td>
<td>True</td>
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</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>True</td>
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</tr>
<tr>
<td>Sample bottles are completely filled.</td>
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</tr>
<tr>
<td>Sample Preservation Verified.</td>
<td>N/A</td>
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</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers requiring zero headspace have no headspace or bubble is &lt;6mm (1/4&quot;).</td>
<td>N/A</td>
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<tr>
<td>Multiphasic samples are not present.</td>
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</tr>
<tr>
<td>Samples do not require splitting or compositing.</td>
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<tr>
<td>Residual Chlorine Checked.</td>
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</tbody>
</table>
The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.
# Table of Contents

Cover Page ................................................................. 1  
Table of Contents ..................................................... 2  
Definitions ............................................................... 3  
Case Narrative ........................................................... 4  
Detection Summary .................................................... 5  
Method Summary ....................................................... 8  
Sample Summary ....................................................... 9  
Client Sample Results ................................................ 10  
QC Sample Results .................................................... 16  
QC Association .......................................................... 18  
Chronicle ................................................................. 21  
Certification Summary ................................................ 30  
Chain of Custody ....................................................... 31  
Receipt Checklists ..................................................... 34
### Qualifiers

**Metals**

<table>
<thead>
<tr>
<th>Qualifier</th>
<th>Qualifier Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2</td>
<td>MS/MSD RPD exceeds control limits</td>
</tr>
<tr>
<td>F1</td>
<td>MS and/or MSD Recovery is outside acceptance limits.</td>
</tr>
<tr>
<td>4</td>
<td>MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.</td>
</tr>
</tbody>
</table>

### Glossary

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>These commonly used abbreviations may or may not be present in this report.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Listed under the &quot;D&quot; column to designate that the result is reported on a dry weight basis</td>
</tr>
<tr>
<td>%R</td>
<td>Percent Recovery</td>
</tr>
<tr>
<td>CFL</td>
<td>Contains Free Liquid</td>
</tr>
<tr>
<td>CNF</td>
<td>Contains no Free Liquid</td>
</tr>
<tr>
<td>DER</td>
<td>Duplicate error ratio (normalized absolute difference)</td>
</tr>
<tr>
<td>Dil Fac</td>
<td>Dilution Factor</td>
</tr>
<tr>
<td>DL, RA, RE, IN</td>
<td>Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample</td>
</tr>
<tr>
<td>DLC</td>
<td>Decision level concentration</td>
</tr>
<tr>
<td>MDA</td>
<td>Minimum detectable activity</td>
</tr>
<tr>
<td>EDL</td>
<td>Estimated Detection Limit</td>
</tr>
<tr>
<td>MDC</td>
<td>Minimum detectable concentration</td>
</tr>
<tr>
<td>MDL</td>
<td>Method Detection Limit</td>
</tr>
<tr>
<td>ML</td>
<td>Minimum Level (Dioxin)</td>
</tr>
<tr>
<td>NC</td>
<td>Not Calculated</td>
</tr>
<tr>
<td>ND</td>
<td>Not detected at the reporting limit (or MDL or EDL if shown)</td>
</tr>
<tr>
<td>PQL</td>
<td>Practical Quantitation Limit</td>
</tr>
<tr>
<td>QC</td>
<td>Quality Control</td>
</tr>
<tr>
<td>RER</td>
<td>Relative error ratio</td>
</tr>
<tr>
<td>RL</td>
<td>Reporting Limit or Requested Limit (Radiochemistry)</td>
</tr>
<tr>
<td>RPD</td>
<td>Relative Percent Difference, a measure of the relative difference between two points</td>
</tr>
<tr>
<td>TEF</td>
<td>Toxicity Equivalent Factor (Dioxin)</td>
</tr>
<tr>
<td>TEQ</td>
<td>Toxicity Equivalent Quotient (Dioxin)</td>
</tr>
</tbody>
</table>
CASE NARRATIVE
Client: Engineering Management Support, Inc.
Project: VB/170 GLO - Soils Testing
Report Number: 280-89923-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no
problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control
limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of
the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples,
the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the
individual sections below.

Sample Receiving
The samples were received on 10/19/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the
cooler at receipt was 16.8 C.

Holding Times
All holding times were met.

Method Blanks
All Method Blanks were within established control limits.

Laboratory Control Samples (LCS)
All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)
The percent recoveries and/or relative percent difference of the MS/MSD performed on sample SWDI-43-0-1 were outside control limits for
Total Lead Method 6010C because the sample concentration was greater than four times the spike amount. In addition, the RPD result
was outside the RPD limit for Total Lead. Because the corresponding Laboratory Control Sample and the Method Blank sample were
within control limits, no corrective action was taken.

Sample SWDI-43-0-1 was selected to fulfill the laboratory batch quality control requirements for Method 6010C. Analysis of the laboratory
generated MS/MSD for this sample exhibited recoveries of Total Arsenic above the upper control limit. In addition, the RPD result was
outside the RPD limit for Total Arsenic. Because the corresponding Laboratory Control Sample and the Method Blank sample were within
control limits, this anomaly may be due to matrix interference and no corrective action was taken.

The Method 6010C MS/MSD performed on samples SWDI-34 exhibited RPD results outside the RPD limits for Total Arsenic and Total
Lead. Because the corresponding Matrix Spike and Matrix Spike Duplicate recoveries, Laboratory Control Sample, and Method Blank
sample were within control limits, this anomaly is considered to be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.
### Detection Summary

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing  
**TestAmerica Job ID:** 280-89923-1

#### Client Sample ID: SWDI-43-0-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>55</td>
<td>F1 F2</td>
<td>1.6</td>
<td>0.52 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>290</td>
<td>F2</td>
<td>0.70</td>
<td>0.21 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-43-1-2

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>110</td>
<td>1.9</td>
<td>0.62</td>
<td>0.25 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>990</td>
<td>0.84</td>
<td>1</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-43-2-3

<table>
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<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>17</td>
<td>1.7</td>
<td>0.55</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>200</td>
<td>0.75</td>
<td>1</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-44-0-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>4.4</td>
<td>2.0</td>
<td>0.67</td>
<td>0.20 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>17</td>
<td>0.92</td>
<td>1</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-44-1-2

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.5</td>
<td>1.5</td>
<td>0.50</td>
<td>0.20 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>13</td>
<td>0.68</td>
<td>1</td>
<td>0.20 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-44-2-3

<table>
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<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>8.5</td>
<td>1.7</td>
<td>0.55</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>96</td>
<td>0.75</td>
<td>1</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-45-0-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.8</td>
<td>1.7</td>
<td>0.57</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>7.5</td>
<td>0.77</td>
<td>1</td>
<td>0.23 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-45-1-2

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.0</td>
<td>1.5</td>
<td>0.51</td>
<td>0.21 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>7.9</td>
<td>0.70</td>
<td>1</td>
<td>0.21 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

#### Client Sample ID: SWDI-45-2-3

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL Unit</th>
<th>Dil Fac</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.0</td>
<td>1.5</td>
<td>0.48</td>
<td>0.20 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>7.7</td>
<td>0.66</td>
<td>1</td>
<td>0.20 mg/Kg</td>
<td>1</td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Page 5 of 34  
10/31/2016
### Client Sample ID: SWDI-46-0-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>4.3</td>
<td>1.6</td>
<td></td>
<td>0.51</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>17</td>
<td>0.70</td>
<td></td>
<td>0.21</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-46-1-2

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.7</td>
<td>1.5</td>
<td></td>
<td>0.49</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>13</td>
<td>0.66</td>
<td></td>
<td>0.20</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-46-2-3

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>4.4</td>
<td>1.6</td>
<td></td>
<td>0.54</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>23</td>
<td>0.73</td>
<td></td>
<td>0.22</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-28

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>3.8</td>
<td>1.8</td>
<td></td>
<td>0.61</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>12</td>
<td>0.83</td>
<td></td>
<td>0.25</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-24

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>4.6</td>
<td>2.3</td>
<td></td>
<td>0.77</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>19</td>
<td>1.0</td>
<td></td>
<td>0.31</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-22

<table>
<thead>
<tr>
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<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>7.8</td>
<td>1.7</td>
<td></td>
<td>0.57</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>69</td>
<td>0.78</td>
<td></td>
<td>0.23</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-21

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>6.2</td>
<td>1.8</td>
<td></td>
<td>0.53</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>74</td>
<td>0.72</td>
<td></td>
<td>0.22</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
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</tbody>
</table>

### Client Sample ID: SWDI-23

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>8.2</td>
<td>1.9</td>
<td></td>
<td>0.62</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
<tr>
<td>Lead</td>
<td>11</td>
<td>0.85</td>
<td></td>
<td>0.26</td>
<td>mg/Kg</td>
<td>1</td>
<td></td>
<td>6010C</td>
<td>Total/NA</td>
</tr>
</tbody>
</table>

### Client Sample ID: SWDI-29

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qualifier</th>
<th>RL</th>
<th>MDL</th>
<th>Unit</th>
<th>Dil Fac</th>
<th>D</th>
<th>Method</th>
<th>Prep Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>2.5</td>
<td>1.5</td>
<td></td>
<td>0.50</td>
<td>mg/Kg</td>
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<td></td>
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This Detection Summary does not include radiochemical test results.
## Detection Summary

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing

### Client Sample ID: SWDI-31

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<th>Prep Type</th>
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<th>Method</th>
<th>Prep Type</th>
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<th>Prep Type</th>
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<th>Method</th>
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</thead>
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<td>Arsenic</td>
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This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Page 7 of 34

10/31/2016
## Method Summary

Client: Engineering Management Support, Inc.
Project/Site: VB/170 GLO - Soils Testing

<table>
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<th>Method Description</th>
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<td>Metals (ICP)</td>
<td>SW846</td>
<td>TAL DEN</td>
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<td>Moisture</td>
<td>Percent Moisture</td>
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### Protocol References:
- EPA = US Environmental Protection Agency

### Laboratory References:
- TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
## Sample Summary

**Client**: Engineering Management Support, Inc.  
**Project/Site**: VB/170 GLO - Soils Testing  
**TestAmerica Job ID**: 280-89923-1

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<td>SWDI-43-1-2</td>
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### Client Sample Results

**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing

#### Client Sample ID: SWDI-45-2-3
**Date Collected:** 10/19/16 09:45  
**Date Received:** 10/19/16 15:00

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**Date Received:** 10/19/16 15:00

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**Date Received:** 10/19/16 15:00

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#### Client Sample ID: SWDI-28
**Date Collected:** 10/19/16 10:15  
**Date Received:** 10/19/16 15:00

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**Date Collected:** 10/19/16 11:15  
**Date Received:** 10/19/16 15:00

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**Date Received:** 10/19/16 15:00

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**Date Received:** 10/19/16 15:00

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### Test America Job ID: 280-89923-1

**Method: 6010C - Metals (ICP)**

**Client Sample ID: SWDI-23**
- **Date Collected:** 10/19/16 12:10
- **Date Received:** 10/19/16 15:00

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**Client Sample ID: SWDI-29**
- **Date Collected:** 10/19/16 12:35
- **Date Received:** 10/19/16 15:00

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- **Date Collected:** 10/19/16 12:45
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- **Date Collected:** 10/19/16 13:00
- **Date Received:** 10/19/16 15:00

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**Client Sample ID: SWDI-34**
- **Date Collected:** 10/19/16 13:15
- **Date Received:** 10/19/16 15:00

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- **Date Received:** 10/19/16 15:00

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- **Date Collected:** 10/19/16 13:45
- **Date Received:** 10/19/16 15:00

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Client Sample Results
TestAmerica Job ID: 280-89923-1
Client: Engineering Management Support, Inc.
Project/Site: VB/170 GLO - Soils Testing

### General Chemistry

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- **Percent Moisture**: The results are listed for each sample, showing the percentage of moisture present in the samples collected on the same date.
- **RL**, **MDL**, **Unit**, **D**, **Prepared**, **Analyzed**, and **Dil Fac** columns provide additional information about the measurements and the analysis process.
### General Chemistry

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Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: VB/170 GLO - Soils Testing

General Chemistry

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<td>Date Received: 10/19/16 15:00</td>
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### QC Sample Results

**Method: 6010C - Metals (ICP)**

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TestAmerica Denver
## QC Sample Results

### Lab Sample ID: MB 280-347893/1-A
**Matrix:** Solid  
**Analysis Batch:** 348446

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### Lab Sample ID: LCS 280-347893/2-A
**Matrix:** Solid  
**Analysis Batch:** 348446

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### Lab Sample ID: SWDI-34 MS
**Matrix:** Solid  
**Analysis Batch:** 348446

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### Lab Sample ID: SWDI-34 MSD
**Matrix:** Solid  
**Analysis Batch:** 348446

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### Method: Moisture - Percent Moisture

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# QC Association Summary

**TestAmerica Job ID:** 280-89923-1  
**Client:** Engineering Management Support, Inc.  
**Project/Site:** VB/170 GLO - Soils Testing

## Metals

**Prep Batch: 347892**

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TestAmerica Denver
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## General Chemistry

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Client: Engineering Management Support, Inc.
Project/Site: VB/170 GLO - Soils Testing

Lab Chronicle

TestAmerica Denver

Page 21 of 34 10/31/2016
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**Date Received:** 10/19/16 15:00

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<th>Prepared or Analyzed</th>
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**Date Received:** 10/19/16 15:00

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### Client Sample ID: SWDI-28
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**Date Received:** 10/19/16 15:00

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Client: Engineering Management Support, Inc. TestAmerica Job ID: 280-89923-1
Project/Site: VB/170 GLO - Soils Testing

Client Sample ID: SWDI-28
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Date Received: 10/19/16 15:00

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<td>1.287 g</td>
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Laboratory References:
TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
## Certification Summary

Client: Engineering Management Support, Inc.  
Project/Site: VB/170 GLO - Soils Testing

### Authority

<table>
<thead>
<tr>
<th>Authority</th>
<th>Program</th>
<th>EPA Region</th>
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* Certification renewal pending - certification considered valid.
## Chain of Custody Record

**Client Information**
- **Name**: Mr. Tim Shangraw
- **Address**: 7220 W. Jefferson Ave. Suite 406
- **City**: Lakewood
- **State, Zip**: CO, 80235
- **Phone**: 303-490-9426(Tel)
- **Email**: timshangraw@emsdenver.com
- **Project Name**: VB/170 GLO - Soils Testing
- **Site**: SSOWA

### Sample Information

<table>
<thead>
<tr>
<th>Sample Identification</th>
<th>Sample Date</th>
<th>Sample Time</th>
<th>Sample Type</th>
<th>Matrix</th>
<th>Special Instructions/Note</th>
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**Possible Hazard Identification**
- Non-Hazard
- Flammable
- Skin Irritant
- Poison B
- Unknown
- Radiological

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**
- Return To Client
- Disposal By Lab
- Archive For Months

**Empty Kit Replaced by**
- **Date/Time**: 10/19/16
- **Company**: 1500
- **Received By**: 10/19/16
- **Company**: 1500
- **Date/Time**: 10/16/16

**Custody Seal Intact**
- Yes

**Custody Seal No.**
- 1063

**Sample Codes**
- A - HCl
- B - NaCl
- C - Zn Acetate
- D - Mn Acetate
- E - NaHSO4
- F - MeCl
- G - Anhydrite
- H - Acetic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA
- Z - Other (specify)
**Chain of Custody Record**

### Client Information
- **Name:** Tim Shangraw
- **Phone:** 303-619-5179

### Company
- **Name:** Engineering Management Support, Inc.
- **Address:** 7220 W. Jefferson Ave. Suite 406
- **City:** Lakewood
- **State Zip:** CO, 80235
- **Phone:** 303-940-3426 (Tel)
- **Email:** timshangraw@emslidener.com

### Project Name
- **Name:** VB/17U GLO - Soils Testing
- **Project #:** 28015964

### Sample Identification
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### Possible Hazard Identification
- Non-Hazard
- Flammable
- Skin Irritant
- Poison B
- Unknown
- Radioactive

### Sample Disposal
- A fee may be assessed if samples are retained longer than 1 month
- Return To Client
- Disposal By Lab
- Archive For Months

### Special Instructions/QC Requirements

### Empty Kiln Returned by:
- **Date:** 10/19/16
- **Time:** 8:00
- **Method of Shipment:**
- **Company:** TestAmerica

### Reclaimed by:
- **Date:** 10/19/16
- **Time:** 8:00
- **Method of Shipment:**
- **Company:** TestAmerica

### Reclaimed by:
- **Date:**
- **Time:**
- **Company:** TestAmerica

### Reclaimed by:
- **Date:**
- **Time:**
- **Company:** TestAmerica

### Cooler Temperature(s) °C and Other Remarks:

### Custody Seals Intact
- **Yes**
- **No**

### Custody Seal No.

---

**Page 32 of 34**

10/31/2016
<table>
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<tr>
<th>Sample ID No. and Description</th>
<th>Date</th>
<th>Time</th>
<th>Matrix</th>
<th>Containers &amp; Preservatives</th>
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Possible Hazard Identification:
- Non-Hazard
- Flammable
- Skin Irritant
- Poison B
- Unknown

Sample Disposal:
- Disposal By Lab
- Archive For **1** Months

QA Requirements (Specify):
- 1. Received By:
  - Date: 10/19/16
  - Time: 1300
- 2. Received By:
  - Date: 11/9/16
  - Time: 1800
- 3. Received By:
  - Date: 11/9/16
  - Time: 1800

Comments:

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy
Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.  
Job Number: 280-89923-1

Login Number: 89923 
List Number: 1 
Creator: Harrington, Danielle M 
List Source: TestAmerica Denver

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<tr>
<th>Question</th>
<th>Answer</th>
<th>Comment</th>
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<tbody>
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<td>Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample custody seals, if present, are intact.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or tampered with.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
<td>True</td>
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</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>True</td>
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</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>True</td>
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</tr>
<tr>
<td>Is the Field Sampler's name present on COC?</td>
<td>True</td>
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<tr>
<td>There are no discrepancies between the containers received and the COC.</td>
<td>True</td>
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<tr>
<td>Samples are received within Holding Time (excluding tests with immediate HTs)</td>
<td>True</td>
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<tr>
<td>Sample containers have legible labels.</td>
<td>True</td>
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<td>Containers are not broken or leaking.</td>
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<td>Sample collection date/times are provided.</td>
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<td>Appropriate sample containers are used.</td>
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<td>Sample bottles are completely filled.</td>
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<td>Sample Preservation Verified.</td>
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<td>There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs</td>
<td>True</td>
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<tr>
<td>Containers requiring zero headspace have no headspace or bubble is $&lt;6$mm (1/4”).</td>
<td>True</td>
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<tr>
<td>Multiphasic samples are not present.</td>
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<tr>
<td>Samples do not require splitting or compositing.</td>
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<td>Residual Chlorine Checked.</td>
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