Appendix A
Well Construction Diagram
4-INCH DIAMETER WELL SEAL
13-INCH DIAMETER LOCKING STEEL MONUMENT
3-FOOT SQUARE CONCRETE PAD

10-INCH STEEL CONDUCTOR CASING
NOMINAL 8-INCH BOREHOLE CEMENT GROUT SEAL
4-INCH DIAMETER SCH 40 PVC BLANK CASING

BENTONITE SEAL
#60 COLORADO SILICA SAND
4-INCH DIAMETER SCH 40 PVC SLOTTED CASING (0.02" SLOT) WITH SUMP AND END CAP
#8-12 COLORADO SILICA SAND
SCH 80 PVC SOUNDING TUBE
SUBMERSIBLE PUMP ON SCH 80 PVC DROP PIPE
TOTAL DEPTH OF BOREHOLE

NOT TO SCALE
Appendix B
IDW Documents
# LIQUID ENVIRONMENTAL SOLUTIONS
## NON-HAZARDOUS WASTE MANIFEST

**Profile Number:** 73908

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Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

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I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

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I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

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WHITE - Generator Final Copy  
YELLOW - Liquid Environmental Solutions Copy  
GOLDENROD - Transporter Copy  
PINK - Generator 1st Copy

Liquid Environmental Solutions of Arizona  
5159 West Van Buren Street  
Phoenix, AZ 85043  
(800) 756-7084  
(602) 278-3442  
www.liquidenviro.com
LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

Generator Name
Name: AP\[2]\[0]
Phone: (602) 1770

Generator Address
City: State: Zip:

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type
☐ Grease Trap ☐ Grit Trap ☐ Septic/Chemical Toilet ☒ Non-Industrial ☐ Industrial ☐ Special

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Generator Rep. Name
(please print)

Generator Rep. Signature

Transporter Name
Name: MBE
Phone: (602) 1770

Transporter Address
City: State: Zip:

Waste Removed (Gallons)

Date

Time

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name
(please print)

Driver Signature

Disposal Facility
Liquid Environmental Solutions of Arizona
Address
5159 West Van Buren Street
Phoenix, AZ 85043

Waste Received (Gallons)

Date

Time

Facility Rep. Name
(please print)

Facility Rep. Signature

WHITE - Generator Final Copy  YELLOW - Liquid Environmental Solutions Copy  GOLDENROD - Transporter Copy  PINK - Generator 1st Copy

Liquid Environmental Solutions of Arizona
5159 West Van Buren Street  Phoenix, AZ 85043  (866) 694-7327  (602) 278-3442  www.liquideaviro.com
LIQUID ENVIRONMENTAL SOLUTIONS
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WHITE - Generator Final Copy  YELLOW - Liquid Environmental Solutions Copy  GOLDENROD - Transporter Copy  PINK - Generator 1st Copy
Appendix C
Historic Water Level Data
# Appendix C

## Historic Water Level Data

### UPCO and Private Wells

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<th>Well Identification</th>
<th>Date of Measurement</th>
<th>Measuring Point Elevation (ft amsl)</th>
<th>Depth to Water from Measuring Point (ft)</th>
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UPCO and Private Wells

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## Historic Water Level Data

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**Historic Water Level Data**

**UPCO and Private Wells**

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#### UPCO and Private Wells

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**Historic Water Level Data**

**UPCO and Private Wells**

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**Note:**
Measured depth to water and calculated groundwater elevations at private wells may not represent actual static water levels because these are active pumping wells, subject to frequent water level fluctuations.

**Abbreviations:**
- NM = Not measured
- NA = No access
- dry = Sounder did not detect water
Appendix D
Monitor Well Hydrographs
Appendix D
Well Hydrographs (feet amsl) with Precipitation (in/day)
Appendix D
Well Hydrographs (feet amsl) with Precipitation (in/day)
Appendix D
Well Hydrographs (feet amsl) with Precipitation (in/day)
Appendix D
Well Hydrographs (feet amsl) with Precipitation (in/day)
Appendix D
Well Hydrographs (feet amsl) with Precipitation (in/day)

MW-13

MW-14

MW-15
Appendix D
Well Hydrographs (feet amsl) with Precipitation (in/day)

MW-18

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Post site demolition, well is no longer used for potable water
Appendix E
2010 Monitor Well Water Quality
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3994-003
Universal Propulsion Co., Inc.

2010 Annual Monitoring Report
July 2011
## Appendix E

### Monitor Well Groundwater Quality Summary

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Notes:
- NA = Not analyzed
- < = Analyte not detected above the listed laboratory reporting limit
- J = Estimated value
- UJ = Estimated reporting limit
- mg/L = Milligrams per liter
- µg/L = Micrograms per liter

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Universal Propulsion Co., Inc.

2010 Annual Monitoring Report
July 2011
## Appendix E
### Monitor Well Groundwater Quality Summary

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3944-603
Universal Propulsion Co., Inc.

R. 3

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July 2011
### Appendix E

**Monitor Well Groundwater Quality Summary**

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**Notes:**
- NA = Not analyzed
- < = Analyte not detected above the listed laboratory reporting limit
- J = Estimated value
- UJ = Estimated reporting limit
- mg/L = Milligrams per liter
- ug/L = Micrograms per liter
Appendix F
Historic Private Well Water Quality Data
## Appendix F
### Historic Private Well Water Quality Data

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**Notes:**
- ug/L = Micrograms per liter
- < = Analyte not detected above the listed laboratory reporting limit
- * = Well in front yard sampled for comparison purposes, labeled as 16 E. Yearling - N
- ** = Older well located in front yard of 218 E. Yearling that previously supplied both 204 E. Yearling and 218 E. Yearling residences before installation of new wells in back yards of both residences.
- *** = 218 East Yearling was not sampled; unable to gain access to well after 2 attempts to contact resident
- J = Analyte was positively identified, however the result should be considered an estimated value
- NA = Not analyzed
Appendix G
Historic Perchlorate Concentration
Graph – Monitor Wells
Appendix G

Historic Monitor Well Perchlorate Concentration Graph

Date

Perchlorate (ug/L)

Jan-04  Dec-04  Dec-05  Dec-06  Dec-07  Dec-08  Dec-09  Dec-10

Appendix H
Summary of 2010 Field Data
### Appendix H
2010 Field Data Summary

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<td>591</td>
<td>7.23</td>
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# Appendix H
## 2010 Field Data Summary

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<th>Date</th>
<th>Purge Volume (gallons)</th>
<th>Time (HH:MM)</th>
<th>Temperature (°C)</th>
<th>Conductivity (μS/cm)</th>
<th>pH (SU)</th>
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<td>25.53</td>
<td>544</td>
<td>9.10</td>
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<tr>
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<td>1/26/2010</td>
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<td>10:32</td>
<td>25.80</td>
<td>552</td>
<td>9.15</td>
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<td>10:52</td>
<td>25.79</td>
<td>552</td>
<td>9.15</td>
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<tr>
<td></td>
<td>MW-18</td>
<td>1/26/2010</td>
<td>95</td>
<td>12:06</td>
<td>26.34</td>
<td>522</td>
<td>9.27</td>
</tr>
<tr>
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<td>146</td>
<td>13:30</td>
<td>26.64</td>
<td>540</td>
<td>9.52</td>
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</tbody>
</table>

| Second Quarter 2010 | MW-1   | 6/14/2010 | 10 | 12:02 | 28.43 | 463 | 6.76 |
|                     | MW-1   | 6/14/2010 | 35 | 12:07 | 29.16 | 412 | 7.07 |
|                     | MW-1   | 6/14/2010 | 60 | 12:12 | 29.20 | 413 | 7.16 |
|                     | MW-1   | 6/14/2010 | 85 | 12:17 | 29.22 | 414 | 7.18 |
|                     | MW-1   | 6/14/2010 | 110 | 12:22 | 29.12 | 414 | 7.15 |
|                     | MW-2   | 6/14/2010 | 53 | 13:26 | 29.66 | 452 | 6.95 |
|                     | MW-5   | 6/14/2010 | 11 | 14:30 | 28.82 | 399 | 6.81 |
|                     | MW-5   | 6/14/2010 | 39 | 14:35 | 29.26 | 393 | 6.96 |
|                     | MW-5   | 6/14/2010 | 66 | 14:40 | 29.26 | 391 | 7.19 |
|                     | MW-5   | 6/14/2010 | 94 | 14:45 | 29.32 | 388 | 7.12 |
|                     | MW-5   | 6/14/2010 | 121 | 14:50 | 29.39 | 388 | 7.22 |
|                     | MW-5   | 6/14/2010 | 149 | 14:55 | 29.36 | 386 | 7.30 |
|                     | MW-6   | 6/14/2010 | 8 | 10:57 | 28.13 | 471 | 7.01 |
|                     | MW-6   | 6/14/2010 | 28 | 11:02 | 28.71 | 469 | 7.11 |
|                     | MW-6   | 6/14/2010 | 40 | 11:05 | 28.98 | 471 | 7.14 |
|                     | MW-6   | 6/14/2010 | 56 | 11:09 | 29.15 | 476 | 7.15 |
|                     | MW-6   | 6/14/2010 | 68 | 11:12 | dry |       |       |
|                     | MW-13  | 6/15/2010 | 78 | 10:20 | 30.04 | 485 | 7.09 |
|                     | MW-13  | 6/15/2010 | 189 | 10:30 | 30.13 | 486 | 7.34 |
|                     | MW-13  | 6/15/2010 | 300 | 10:40 | 30.24 | 489 | 7.37 |
|                     | MW-13  | 6/15/2010 | 522 | 11:00 | 30.18 | 484 | 7.37 |
|                     | MW-13  | 6/15/2010 | 911 | 11:35 | 30.35 | 480 | 7.02 |
|                     | MW-13  | 6/15/2010 | 56 | 11:45 | 30.29 | 481 | 7.21 |

Notes:
HH:MM = Hour : Minute
°C = Degrees Celsius
μS/cm = Microsiemens per centimeter
SU = Standard unit
Appendix I
2010 Data Verification Summaries
1.0 INTRODUCTION

This summary presents data verification results for private residential wells adjacent to Universal Propulsion Company, Inc. (UPCO) during the June 2010 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Inorganic Data Review (USEPA, 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 11 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 314.0; and
- perchlorate by USEPA Method 332.0.

Table B-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody;
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks, trip blanks);
- Laboratory Control Sample (LCS) Recovery and Relative Percent Difference (RPD); and
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery and RPD.

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:
The analyte was positively identified; however, the result should be considered an estimated value.

UJ The reporting limit is considered an estimated value.

R Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

Qualified results are summarized in Table B-2.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature (4±2° Celsius) at the project laboratory.

2.3 HOLDING TIMES

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

2.4 BLANK CONTAMINATION

2.4.1 Method Blank

Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in method blanks.

2.5 LCS RECOVERY AND RPD

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
• If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".

• If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified ("UJ" for non-detects and "J" for detected results).

• If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified "R".

LCS/LCSD percent recoveries and RPDs were within acceptance limits.

2.6 MS/MSD RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

• If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.

• If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified "J".

• Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.

• Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.

• Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

Percent recoveries and RPDs for the MS/MSD duplicate were within acceptance limits except for the following:

• The MS for analytical batch 10F2953 had a recovery for perchlorate (method 332.0) of 77 percent, which was below acceptance limits. Data were qualified "J" for associated samples in the analytical batch, to indicate a potential low bias.
3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

\[
\% \text{ Contract Completeness} = \left( \frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100
\]

\[
\% \text{ Technical Completeness} = \left( \frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100
\]

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 9.1 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table B-3. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.
Table B-1  
Sampling and Analysis Schedule

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<tr>
<th>Sample ID</th>
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<th>Collected</th>
<th>Sample Type</th>
<th>Parameters</th>
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<td>6/17/2010</td>
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Notes:
<sup>1</sup> Perchlorate by USEPA Method 314.0  
<sup>2</sup> Perchlorate by USEPA Method 332.0  
N = normal field sample
### Table B-2
**Qualified Results**

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<th>Sample ID</th>
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<th>Result</th>
<th>Units</th>
<th>Data Qualifier</th>
<th>Comments</th>
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<td>Perchlorate (method 332.0)</td>
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<td>µg/l</td>
<td>J</td>
<td>Qualified due to low MS/MSD recovery</td>
</tr>
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<td>Perchlorate (method 332.0)</td>
<td>0.62</td>
<td>µg/l</td>
<td>J</td>
<td>Qualified due to low MS/MSD recovery</td>
</tr>
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<td>Perchlorate (method 332.0)</td>
<td>0.81</td>
<td>µg/l</td>
<td>J</td>
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</tr>
<tr>
<td>204 E Yearling</td>
<td>Perchlorate (method 332.0)</td>
<td>0.62</td>
<td>µg/l</td>
<td>J</td>
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<tr>
<td>25903 N 2nd St</td>
<td>Perchlorate (method 332.0)</td>
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<td>µg/l</td>
<td>J</td>
<td>Qualified due to low MS/MSD recovery</td>
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<tr>
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<td>Perchlorate (method 332.0)</td>
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<td>µg/l</td>
<td>J</td>
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<td>µg/l</td>
<td>J</td>
<td>Qualified due to low MS/MSD recovery</td>
</tr>
</tbody>
</table>

**Notes:**
- µg/l = microgram per liter
- J = Estimated result
- MS/MSD = Matrix spike/matrix spike duplicate samples
Table B-3
Completeness Summary

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Total Number of Samples</th>
<th>Number in Contractual Compliance</th>
<th>Percent Contractual Compliance</th>
<th>Number of Usable Results</th>
<th>Percent Technical Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perchlorate (USEPA Method 314.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perchlorate</td>
<td>11</td>
<td>11</td>
<td>100</td>
<td>11</td>
<td>100</td>
</tr>
<tr>
<td>Perchlorate (USEPA Method 332.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perchlorate</td>
<td>11</td>
<td>1</td>
<td>9.1</td>
<td>11</td>
<td>100</td>
</tr>
</tbody>
</table>

Notes:
Number of samples used in completeness calculations includes field samples but not field duplicates or trip blanks.
Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100
Percent Technical Compliance = (Number of usable results/Number of reported results) * 100
1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the January 2010 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 16 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- metals by USEPA Methods 200.8, and 245.1;
- perchlorate by USEPA Method 314.0; and
- volatile organic compounds (VOCs) by USEPA Method 8260B.

Additionally, eleven field quality assurance samples (i.e., trip blanks and field duplicate) were collected and analyzed as part of the sampling program. Table A-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks, trip blanks);
- Surrogate Recovery (for organic parameters);
- Laboratory Control Sample (LCS) Recovery and Relative Percent Difference (RPD);
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery and RPD;
• Duplicates (field duplicate, laboratory duplicates); and
• Calibration.

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

J The analyte was positively identified; however, the result should be considered an estimated value.

UJ The reporting limit is considered an estimated value.

R Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

The results associated with this sampling event required no data qualification.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature (4±2° Celsius) at the project laboratory with the following exception:

• Samples collected on January 22, 2010, were received at 1.4 degrees Celsius. This temperature outlier did not significantly impact the sample results; therefore, data qualification was not required.

• Samples collected on January 25, 2010, were received at 1.6 degrees Celsius. This temperature outlier did not significantly impact the sample results; therefore, data qualification was not required.

2.3 HOLDING TIMES

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.
2.4 BLANK CONTAMINATION

2.4.1 Method Blank
Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in method blanks.

2.4.2 Trip Blank
Trip blanks were analyzed at the appropriate frequency as specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004). Target compounds were not detected in the trip blanks.

2.5 SURROGATE RECOVERY
Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

2.6 LCS RECOVERY AND RPD
LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

LCS/LCSD percent recoveries and RPDs were within acceptance limits except for the following:

- For the analytical batch 10B0036, the LCS and LCS duplicate percent recoveries exceeded the control limits for tert-butylbenzene. Data qualification was not required because the associated samples were not analyzed for tert-butylbenzene within this analytical batch.
2.7 MS/MSD RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.

- If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified “J”.

- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.

- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.

- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

MS/MSD percent recoveries and RPDs were within acceptance limits except for the following:

- The MS and MS duplicate percent recoveries associated with the analytical batch 10A0749 were outside of acceptance limits for several analytes. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).

- The MS percent recovery associated with the analytical batch 10A0850 was outside acceptance limits for trichloroethene. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).

- The MS duplicate percent recovery associated with the analytical batch 10B0085 was outside acceptance limits for total xylenes. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).

- The MS duplicate percent recovery associated with the analytical batch 10A0798 was outside acceptance limits for carbon disulfide. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).

- The MS duplicate percent recovery associated with the analytical batch 10B0034 was outside acceptance limits for dibromomethane and 4-methyl-2-pentanone (MIBK). Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).
2.8 DUPLICATES

2.8.1 Field Duplicates
One field duplicate was collected during the monitoring event and submitted for analysis. The RPDs between the field duplicate and its associated sample were calculated and are presented in Table A-2. The field duplicates were evaluated by the following criteria:

- If an analyte was detected at a concentration greater than five times the method reporting limit, the RPD should be less than 25 percent.
- If an analyte was detected at a concentration that is less than five times the method reporting limit, then the difference between the sample and the field duplicate should not exceed the method reporting limit.
- Duplicate RPDs are calculated by dividing the difference of the concentrations by the average of the concentrations.

Field duplicate RPDs were within acceptance limits.

2.8.2 Laboratory Duplicates
Laboratory duplicates are evaluated based on the acceptance limits set forth by the project laboratory’s guidelines. Laboratory duplicates were performed at the appropriate frequency for perchlorate. Laboratory duplicates were within acceptance limits except for the following:

- The RPD between the original and duplicate sample result for analytical batch 10A0701 was outside acceptance limits. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).
- The RPD between the original and duplicate sample result for analytical batch 10A0754 was outside acceptance limits. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).

2.9 CALIBRATION
The Method 8260B continuing calibration verification (CCV) standards were within acceptance limits, except for the following:

- The second source CCV recovery associated with analytical batch 10A0747 had recoveries above acceptance limits for carbon disulfide. Data qualification was not required because the analyte was not detected in the associated samples.
- The second source curve for verification following the calibration for analytical batch 10B0036 was above acceptance limits for tert-butylbenzene.
Data qualification was not required because tert-butylbenzene was not detected in the associated samples.

- The second source CCV recovery associated with analytical batch 10A0798 had recoveries above acceptance limits for carbon disulfide. Data qualification was not required because the analyte was not detected in the associated samples.

### 3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

\[
\% \text{ Contract Completeness} = \left( \frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100
\]

\[
\% \text{ Technical Completeness} = \left( \frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100
\]

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 100 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table A-3. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.
<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Lab ID</th>
<th>Collected</th>
<th>Sample Type</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-6</td>
<td>PTA0939-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>TB012010-01</td>
<td>PTA0939-02</td>
<td>1/20/2010</td>
<td>TB</td>
<td>VOCs</td>
</tr>
<tr>
<td>TB012010-02</td>
<td>PTA0939-03</td>
<td>1/20/2010</td>
<td>TB</td>
<td>1,4-Dioxane</td>
</tr>
<tr>
<td>MW-4</td>
<td>PTA0939-04</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-3</td>
<td>PTA0939-05</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-9</td>
<td>PTA0939-06</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-8</td>
<td>PTA0939-07</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-10</td>
<td>PTA0939-08</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-14</td>
<td>PTA0939-09</td>
<td>1/20/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>TB012110-1</td>
<td>PTA1040-01</td>
<td>1/21/2010</td>
<td>TB</td>
<td>VOCs</td>
</tr>
<tr>
<td>TB012110-2</td>
<td>PTA1040-02</td>
<td>1/21/2010</td>
<td>TB</td>
<td>1,4-Dioxane</td>
</tr>
<tr>
<td>MW-11</td>
<td>PTA1040-03</td>
<td>1/21/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-12</td>
<td>PTA1040-04</td>
<td>1/21/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>TB012210-1</td>
<td>PTA1099-01</td>
<td>1/22/2010</td>
<td>TB</td>
<td>VOCs</td>
</tr>
<tr>
<td>TB012210-2</td>
<td>PTA1099-02</td>
<td>1/22/2010</td>
<td>TB</td>
<td>1,4-Dioxane</td>
</tr>
<tr>
<td>MW-7</td>
<td>PTA1099-03</td>
<td>1/22/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-15</td>
<td>PTA1099-04</td>
<td>1/22/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-13</td>
<td>PTA1099-05</td>
<td>1/22/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>TB012510-1</td>
<td>PTA1143-01</td>
<td>1/25/2010</td>
<td>TB</td>
<td>VOCs</td>
</tr>
<tr>
<td>TB012510-2</td>
<td>PTA1143-02</td>
<td>1/25/2010</td>
<td>TB</td>
<td>1,4-Dioxane</td>
</tr>
<tr>
<td>MW-5</td>
<td>PTA1143-03</td>
<td>1/25/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-1</td>
<td>PTA1143-04</td>
<td>1/25/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>MW-2</td>
<td>PTA1143-05</td>
<td>1/25/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>FD012510</td>
<td>PTA1143-06</td>
<td>1/25/2010</td>
<td>FD</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
<tr>
<td>TB012710-1</td>
<td>PTA1251-01</td>
<td>1/27/2010</td>
<td>TB</td>
<td>VOCs</td>
</tr>
<tr>
<td>TB012710-2</td>
<td>PTA1251-02</td>
<td>1/27/2010</td>
<td>TB</td>
<td>1,4-Dioxane</td>
</tr>
<tr>
<td>MW-18</td>
<td>PTA1251-03</td>
<td>1/27/2010</td>
<td>N</td>
<td>VOCs, 1,4-Dioxane, Metals, Perchlorate</td>
</tr>
</tbody>
</table>

Notes:
Metal = arsenic, bario, cadmium, chromium, lead, mercury, selenium, and silver.
VOCs = volatile organic compounds analyzed by USEPA Method 8260B.
Perchlorate = USEPA Method 314.0.
N = normal field sample
TB = trip blank
# Table A-2
## Field Duplicate Summary

<table>
<thead>
<tr>
<th>Sample ID / Field Duplicate ID</th>
<th>Parameters</th>
<th>Sample Result</th>
<th>Field Duplicate Result</th>
<th>RPD (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-2/ FD012510</td>
<td>Volatile Organic Compounds (ug/l)</td>
<td>2.7</td>
<td>2.5</td>
<td>7.7</td>
</tr>
<tr>
<td></td>
<td>1,4-Dioxane</td>
<td>ND</td>
<td>ND</td>
<td>NC</td>
</tr>
<tr>
<td></td>
<td>All Other Analytes</td>
<td>ND</td>
<td>ND</td>
<td>NC</td>
</tr>
<tr>
<td></td>
<td>Inorganics (mg/l)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arsenic</td>
<td>0.0082</td>
<td>0.0084</td>
<td>2.4</td>
</tr>
<tr>
<td></td>
<td>Barium</td>
<td>0.074</td>
<td>0.076</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td>Cadmium</td>
<td>&lt;0.001</td>
<td>&lt;0.001</td>
<td>NC</td>
</tr>
<tr>
<td></td>
<td>Chromium</td>
<td>0.015</td>
<td>0.015</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td></td>
<td>Lead</td>
<td>0.0013</td>
<td>0.0017</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Mercury</td>
<td>&lt;0.0002</td>
<td>&lt;0.0002</td>
<td>NC</td>
</tr>
<tr>
<td></td>
<td>Selenium</td>
<td>&lt;0.002</td>
<td>&lt;0.002</td>
<td>NC</td>
</tr>
<tr>
<td></td>
<td>Silver</td>
<td>&lt;0.001</td>
<td>&lt;0.001</td>
<td>NC</td>
</tr>
<tr>
<td></td>
<td>Perchlorate (ug/l)</td>
<td>90</td>
<td>94</td>
<td>4.3</td>
</tr>
</tbody>
</table>

Notes:
- RPD = Relative percent difference; \[\frac{(\text{difference})}{(\text{average})}\] × 100
- ND = No analytes detected
- NC = Not calculated
- Field duplicate RPD acceptance limits is 25 percent for results greater than 5 times the reporting limit; for results less than 5 times the reporting limit, the difference between sample and field duplicate results should be less than the reporting limit.
- Bolded results required data qualification.
Table A-3
Completeness Summary

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Total Number of Samples</th>
<th>Number in Contractual Compliance</th>
<th>Percent Contractual Compliance</th>
<th>Number of Usable Results</th>
<th>Percent Technical Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volatile Organic Compounds (8260)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Analytes</td>
<td>16</td>
<td>16</td>
<td>100</td>
<td>16</td>
<td>100</td>
</tr>
<tr>
<td>1,4-Dioxane</td>
<td>16</td>
<td>16</td>
<td>100</td>
<td>16</td>
<td>100</td>
</tr>
<tr>
<td><strong>Metals</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Analytes</td>
<td>16</td>
<td>16</td>
<td>100</td>
<td>16</td>
<td>100</td>
</tr>
<tr>
<td><strong>Other Inorganics</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>perchlorate</td>
<td>16</td>
<td>16</td>
<td>100</td>
<td>16</td>
<td>100</td>
</tr>
</tbody>
</table>

Notes:
Number of samples used in completeness calculations includes field samples but not field duplicates or trip blanks.
Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100
Percent Technical Compliance = (Number of usable results/Number of reported results) * 100
DATA VERIFICATION SUMMARY FOR PERCHLORATE COMPARISON GROUNDWATER MONITORING SAMPLES – JANUARY 2010

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the January 2010 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Inorganic Data Review (USEPA, 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 11 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 332.0.

Table B-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks, trip blanks);
- Laboratory Control Sample (LCS) Recovery;
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery and RPD; and
- Internal Standard Recovery.

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:
The analyte was positively identified; however, the result should be considered an estimated value.

UJ The reporting limit is considered an estimated value.

R Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

The results associated with this sampling event that required data qualification are provided in Table B-2.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature (4±2°C Celsius) at the project laboratory except the following:

- Samples collected on January 20, 2010 were received at 1.0 degree Celsius. The temperature outlier did not significantly impact the sample results; therefore, data qualification was not required.

- Samples collected on January 22, 2010 were received at 1.4 degrees Celsius. The temperature outlier did not significantly impact the sample results; therefore, data qualification was not required.

2.3 HOLDING TIMES

Samples were extracted and analyzed within the holding time limit set by the respective USEPA method.

2.4 BLANK CONTAMINATION

2.4.1 Method Blank

Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in method blanks.
2.5 LCS RECOVERY

LCS percent recoveries were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.

- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).

- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

LCS percent recoveries were within acceptance limits.

2.6 MS/MSD RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.

- If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified “J”.

- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.

- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.

- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

MS/MSD percent recoveries and RPDs were within acceptance limits.
2.7 INTERNAL STANDARD RECOVERY

The Internal Standard recovery was outside of method limits for analytical batches 10B0376 and 10B0630 and matrix interference was confirmed. Associated samples were qualified "UJ" and "J" to indicate a potential bias.

3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

\[
% \text{Contract Completeness} = \left( \frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100
\]

\[
% \text{Technical Completeness} = \left( \frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100
\]

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 0 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table B-3. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.
# Table B-1
## Sampling and Analysis Schedule

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Lab ID</th>
<th>Collected</th>
<th>Sample Type</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-14</td>
<td>PTA0940-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-4</td>
<td>PTA0941-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-3</td>
<td>PTA0942-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-9</td>
<td>PTA0943-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-8</td>
<td>PTA0944-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-10</td>
<td>PTA0945-01</td>
<td>1/20/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-11</td>
<td>PTA1038-01</td>
<td>1/21/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-12</td>
<td>PTA1039-01</td>
<td>1/21/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-7</td>
<td>PTA1100-01</td>
<td>1/22/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-15</td>
<td>PTA1101-01</td>
<td>1/22/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
<tr>
<td>MW-18</td>
<td>PTA1252-01</td>
<td>1/27/2010</td>
<td>N</td>
<td>Perchlorate by USEPA Method 332.0</td>
</tr>
</tbody>
</table>

Notes:
N = normal field sample
<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>Data Qualifier</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-14</td>
<td>Perchlorate</td>
<td>0.98</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-4</td>
<td>Perchlorate</td>
<td>0.49</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-3</td>
<td>Perchlorate</td>
<td>0.47</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-9</td>
<td>Perchlorate</td>
<td>0.64</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-8</td>
<td>Perchlorate</td>
<td>0.93</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-10</td>
<td>Perchlorate</td>
<td>1.2</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-11</td>
<td>Perchlorate</td>
<td>2.1</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-12</td>
<td>Perchlorate</td>
<td>1.1</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-7</td>
<td>Perchlorate</td>
<td>0.51</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-15</td>
<td>Perchlorate</td>
<td>0.86</td>
<td>ug/l</td>
<td>J</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
<tr>
<td>MW-18</td>
<td>Perchlorate</td>
<td>&lt;2.0</td>
<td>ug/l</td>
<td>UJ</td>
<td>Qualified due to Internal Standard recovery outside the method limits.</td>
</tr>
</tbody>
</table>

Notes:

ug/L = micrograms per liter
J = estimated result
Table B-3
Completeness Summary

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Total Number of Samples</th>
<th>Number in Contractual Compliance</th>
<th>Percent Contractual Compliance</th>
<th>Number of Usable Results</th>
<th>Percent Technical Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perchlorate 332.0</td>
<td>11</td>
<td>0&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0</td>
<td>11</td>
<td>100</td>
</tr>
</tbody>
</table>

Notes:
Number of samples used in completeness calculations includes field samples, but not field duplicates or blanks.
Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100
Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

<sup>a</sup> = Qualified due to Internal Standard recovery outside the method limits
GROUNDWATER MONITORING DATA VERIFICATION
SUMMARY SITE MONITORING WELLS – JUNE 2010

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the June 2010 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of five groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 314.0

Additionally, one field quality assurance samples (i.e., field duplicate) was collected and analyzed as part of the sampling program. Table A-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks, trip blanks);
- Surrogate Recovery (for organic parameters);
- Laboratory Control Sample (LCS) Recovery and Relative Percent Difference (RPD);
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery and RPD; and
- Duplicates (field duplicates).
The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

- **J** The analyte was positively identified; however, the result should be considered an estimated value.
- **UJ** The reporting limit is considered an estimated value.
- **R** Quality control indicates that the data is not usable.

Results qualified as “J” or “UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

The results associated with this sampling event required no data qualification.

### 2.1 Chain-of-Custody

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

### 2.2 Sample Preservation and Temperature Upon Laboratory Receipt

Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature (4±2°C Celsius) at the project laboratory.

### 2.3 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

### 2.4 Blank Contamination

#### 2.4.1 Method Blank

Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in method blanks.

### 2.5 LCS Recovery and RPD

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
• If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.

• If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).

• If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

LCS/LCSD percent recoveries and RPDs were within acceptance limits.

2.6 MS/MSD RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

• If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.

• If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified “J”.

• Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.

• Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.

• Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

MS/MSD percent recoveries and RPDs were within acceptance limits.

2.7 DUPLICATES

2.7.1 Field Duplicates

One field duplicate was collected during this monitoring event and submitted for analysis. The RPD between the field duplicate and its associated samples were calculated and presented in Table A-2. Field duplicates were evaluated by the following criteria:
• If an analyte is detected at a concentration greater than five times the method reporting limit, the RPD should be less than 25 percent.

• If an analyte is detected between the sample and field duplicate less than five times the method reporting limit, the difference between the sample and the field duplicate should not exceed the method reporting limit.

The field duplicate met acceptance criteria.

3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

\[
\% \text{ Contract Completeness} = \left( \frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100
\]

\[
\% \text{ Technical Completeness} = \left( \frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100
\]

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 100 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table A-3. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.
Table A-1
Sampling and Analysis Schedule
Second Quarter 2010 Monitoring Report

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Lab ID</th>
<th>Collected</th>
<th>Sample Type</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-1</td>
<td>PTF0841-01</td>
<td>6/14/2010</td>
<td>N</td>
<td>Perchlorate</td>
</tr>
<tr>
<td>FD06142010</td>
<td>PTF0841-02</td>
<td>6/14/2010</td>
<td>FD of MW-1</td>
<td>Perchlorate</td>
</tr>
<tr>
<td>MW-2</td>
<td>PTF0841-03</td>
<td>6/14/2010</td>
<td>N</td>
<td>Perchlorate</td>
</tr>
<tr>
<td>MW-5</td>
<td>PTF0841-04</td>
<td>6/14/2010</td>
<td>N</td>
<td>Perchlorate</td>
</tr>
<tr>
<td>MW-6</td>
<td>PTF0911-01</td>
<td>6/15/2010</td>
<td>N</td>
<td>Perchlorate</td>
</tr>
<tr>
<td>MW-13</td>
<td>PTF0911-02</td>
<td>6/15/2010</td>
<td>N</td>
<td>Perchlorate</td>
</tr>
</tbody>
</table>

Notes:
Perchlorate = USEPA Method 314.0.
N = normal field sample
FD = field duplicate
Table A-2
Field Duplicate Summary
Second Quarter 2010 Monitoring Report

<table>
<thead>
<tr>
<th>Sample ID / Field Duplicate ID</th>
<th>Parameters</th>
<th>Sample Result</th>
<th>Field Duplicate Result</th>
<th>RPD (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-1/ FD06142010</td>
<td>Inorganics (ug/l)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Perchlorate</td>
<td>78</td>
<td>78</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Notes:
RPD = Relative percent difference: [(difference)/(average)]*100
ND = No analytes detected
NC = Not calculated
Field duplicate RPD acceptance limits is 25 percent for results greater than 5 times the reporting limit; for results less than 5 times the reporting limit, the difference between sample and field duplicate results should be less than the reporting limit
### Table A-3
Completeness Summary
Second Quarter 2010 Monitoring Report

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Total Number of Samples</th>
<th>Number in Contractual Compliance</th>
<th>Percent Contractual Compliance</th>
<th>Number of Usable Results</th>
<th>Percent Technical Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>perchlorate (Method 314.0)</td>
<td>5</td>
<td>5</td>
<td>100</td>
<td>5</td>
<td>100</td>
</tr>
</tbody>
</table>

Notes:
Number of samples used in completeness calculations includes field samples but not field duplicates or trip blanks.

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100
Percent Technical Compliance = (Number of usable results/Number of reported results) * 100
DATA VERIFICATION SUMMARY FOR SOIL-VAPOR MONITOR WELL SAMPLES – JUNE 2010

1.0 INTRODUCTION

This summary presents data verification results for soil-gas samples collected from the soil-vapor monitoring well at Universal Propulsion Company, Inc. (UPCO) during the June 2010 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic Data Review (USEPA, 1999), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of four samples were collected and submitted to TestAmerica for the following parameters:

- volatile organic compounds (VOCs) by USEPA Method TO-15

Table C-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody;
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks); and
- Laboratory Control Sample (LCS) Recovery and Relative Percent Difference (RPD).

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

J The analyte was positively identified; however, the result should be considered an estimated value.

UJ The reporting limit is considered an estimated value.
Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

2.1 CHAIN-OF-CUSTODY
The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT
Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature (ambient) at the project laboratory.

2.3 HOLDING TIMES
Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

2.4 BLANK CONTAMINATION
2.4.1 Method Blank
Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in method blanks.

2.5 LCS RECOVERY AND RPD
LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.

- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
• If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

LCS/LCSD percent recoveries and RPDs were within acceptance limits.

2.6 COMMON LABORATORY CONTAMINANTS

Per USEPA guidelines, common laboratory contaminants for VOC analysis are acetone, 2-butanol (MEK), cyclohexane, and methylene chloride. Analytical results are qualified if the detected sample concentration is less than 10 times the method reporting limit. Common lab contaminant compounds were not detected in the samples associated with the monitoring events except for the following:

• Acetone was detected in samples SVMW-1-30-40, SVMW-1-90-100, SVMW-1-140-150, and SVMW-1-190-200 collected June 16, 2010. Data were qualified “J” to indicate a potential bias.

• 2-Butanol (MEK) was detected in samples SVMW-1-30-40, SVMW-1-90-100, SVMW-1-140-150, and SVMW-1-190-200 collected June 16, 2010. Data were qualified “J” to indicate a potential bias.

3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

\[
\% \text{ Contract Completeness} = \left( \frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100
\]

\[
\% \text{ Technical Completeness} = \left( \frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100
\]

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 97.1 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table C-2. The results for the
performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.
## Table C-1
Sampling and Analysis Schedule

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Lab ID</th>
<th>Collected</th>
<th>Sample Type</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVMW-1-30-40</td>
<td>PTF1008-01</td>
<td>6/16/2010</td>
<td>N</td>
<td>VOCs</td>
</tr>
<tr>
<td>SVMW-1-90-100</td>
<td>PTF1008-02</td>
<td>6/16/2010</td>
<td>N</td>
<td>VOCs</td>
</tr>
<tr>
<td>SVMW-1-140-150</td>
<td>PTF1008-03</td>
<td>6/16/2010</td>
<td>N</td>
<td>VOCs</td>
</tr>
<tr>
<td>SVMW-1-190-200</td>
<td>PTF1008-04</td>
<td>6/16/2010</td>
<td>N</td>
<td>VOCs</td>
</tr>
</tbody>
</table>
Table C-2
Qualified Results

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>Data Qualifier</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVMW-1-30-40</td>
<td>Acetone</td>
<td>740</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-30-40</td>
<td>2-Butanone</td>
<td>66</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-90-100</td>
<td>Acetone</td>
<td>280</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-90-100</td>
<td>2-Butanone</td>
<td>37</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-140-150</td>
<td>Acetone</td>
<td>710</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-140-150</td>
<td>2-Butanone</td>
<td>73</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-190-200</td>
<td>Acetone</td>
<td>380</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
<tr>
<td>SVMW-1-190-200</td>
<td>2-Butanone</td>
<td>40</td>
<td>ppbv</td>
<td>J</td>
<td>Qualified due to presence of common laboratory contaminant</td>
</tr>
</tbody>
</table>

Notes:
ppbv = parts per billion by volume
J = Estimated result
## Table C-3
### Completeness Summary

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Total Number of Samples</th>
<th>Number in Contractual Compliance</th>
<th>Percent Contractual Compliance</th>
<th>Number of Usable Results</th>
<th>Percent Technical Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volatile Organic Compounds by EPA Method TO-15</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>4</td>
<td>0&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0</td>
<td>4</td>
<td>100</td>
</tr>
<tr>
<td>2-Butanone</td>
<td>4</td>
<td>0&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0</td>
<td>4</td>
<td>100</td>
</tr>
<tr>
<td>All other analytes</td>
<td>272</td>
<td>272</td>
<td>100</td>
<td>272</td>
<td>100</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>280</td>
<td>272</td>
<td>97.1</td>
<td>280</td>
<td>100</td>
</tr>
</tbody>
</table>

**Notes:**

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

<sup>a</sup> Qualified due to presence of common laboratory contaminant.
Appendix J
Laboratory Reports (CD)