VALIDATION FINDINGS WORKSHEET

Field Duplicates

METHOD: Radiochemistry (Method: 904.0)

Were field duplicate pairs identified in this SDG?
Were target isotopes detected in the field duplicate pairs?

<table>
<thead>
<tr>
<th>Isotopes</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ra-228</td>
<td>0.633 U</td>
<td>1.08</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Former Raytheon Site
Collection Date: May 27, 2009
LDC Report Date: August 5, 2009
Matrix: Water
Parameters: Radium-228
Validation Level: Level III & IV
Laboratory: GPL Laboratories

Sample Delivery Group (SDG): 9068

Sample Identification
CP-0905005
CP-0905006
CP-0905001**
CP-0905002**
CP-0905023
CP-0905024
CP-0905013
CP-0905014
CP-0905017
CP-0905018
CP-0905021
CP-0905022
CP-0905028
CP-0905005DUP
CP-0905006MS

**Indicates sample underwent Level IV review
Introduction

This data review covers 15 water samples listed on the cover sheet. The analyses were per EPA Method 904.0 for Radium-228.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VIII.

Samples indicated by a double asterisk on the front cover underwent a Level IV review. A Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the isotope was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the isotope was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.
I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration were met.

Detector efficiency was determined and a self-absorption curve was generated for each radionuclide of interest.

b. Continuing Calibration

Calibration verification and background determination were performed at the required frequencies. Results were within laboratory control limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. Blank results contained less than the minimum detectable activity (MDA).

Sample CP-0905028 was identified as an equipment blank. No radium-228 contaminants were found in this blank with the following exceptions:

<table>
<thead>
<tr>
<th>Equipment Blank ID</th>
<th>Sampling Date</th>
<th>Isotope</th>
<th>Concentration</th>
<th>Associated Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-0905028</td>
<td>5/27/09</td>
<td>Radium-228</td>
<td>1.09 pC/L</td>
<td>CP-0905005</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905006</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-090501**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-090502**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905023</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905024</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905017</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>CP-0905018</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905021</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CP-0905022</td>
</tr>
</tbody>
</table>

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater ( >5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:
<table>
<thead>
<tr>
<th>Sample</th>
<th>Isotope</th>
<th>Reported Concentration</th>
<th>Modified Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-0905002**</td>
<td>Radium-228</td>
<td>4.46 pCi/L</td>
<td>4.46U pCi/L</td>
</tr>
<tr>
<td>CP-0905023</td>
<td>Radium-228</td>
<td>4.86 pCi/L</td>
<td>4.86U pCi/L</td>
</tr>
<tr>
<td>CP-0905024</td>
<td>Radium-228</td>
<td>4.07 pCi/L</td>
<td>4.07U pCi/L</td>
</tr>
<tr>
<td>CP-0905013</td>
<td>Radium-228</td>
<td>1.60 pCi/L</td>
<td>1.60U pCi/L</td>
</tr>
<tr>
<td>CP-0905014</td>
<td>Radium-228</td>
<td>2.14 pCi/L</td>
<td>2.14U pCi/L</td>
</tr>
<tr>
<td>CP-0905017</td>
<td>Radium-228</td>
<td>2.51 pCi/L</td>
<td>2.51U pCi/L</td>
</tr>
<tr>
<td>CP-0905018</td>
<td>Radium-228</td>
<td>1.64 pCi/L</td>
<td>1.64U pCi/L</td>
</tr>
<tr>
<td>CP-0905021</td>
<td>Radium-228</td>
<td>2.51 pCi/L</td>
<td>2.51U pCi/L</td>
</tr>
<tr>
<td>CP-0905022</td>
<td>Radium-228</td>
<td>1.37 pCi/L</td>
<td>1.37U pCi/L</td>
</tr>
</tbody>
</table>

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicate

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

c. Chemical Recovery

All chemical recoveries were within validation criteria with the following exceptions:
<table>
<thead>
<tr>
<th>Isotope</th>
<th>%R (Limits)</th>
<th>Associated Samples</th>
<th>Affected Isotope</th>
<th>Flag</th>
<th>A or P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actinium-228</td>
<td>137.64 (30-110)</td>
<td>All samples in SDG 9068</td>
<td>Radium-228</td>
<td>J (all detects)</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UJ (all non-detects)</td>
<td></td>
</tr>
</tbody>
</table>

V. Sample Result Verification

All sample result verifications were acceptable for samples on which a Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

VI. Minimum Detectable Activity (MDA)

All minimum detectable activities met required detection limits.

VII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

VIII. Field Duplicates

Samples CP-0905001** and CP-0905023 and samples CP-0905002** and CP-0905024 were identified as field duplicates. No radium-228 was detected in any of the samples with the following exceptions:

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radium-228</td>
<td>CP-0905001**</td>
<td>2.20</td>
</tr>
<tr>
<td></td>
<td>CP-0905023</td>
<td>4.86</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radium-228</td>
<td>CP-0905002**</td>
<td>4.46</td>
</tr>
<tr>
<td></td>
<td>CP-0905024</td>
<td>4.07</td>
</tr>
</tbody>
</table>
### Former Raytheon Site
#### Radium-228 - Data Qualification Summary - SDG 9068

<table>
<thead>
<tr>
<th>SDG</th>
<th>Sample</th>
<th>Isotope</th>
<th>Flag</th>
<th>A or P</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>9068</td>
<td>CP-0905005</td>
<td>Radium-228</td>
<td>J (all detects)</td>
<td>A</td>
<td>Chemical recovery (%R)</td>
</tr>
<tr>
<td></td>
<td>CP-0905006</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CP-0905001**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CP-0905002**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CP-0905023</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>CP-0905024</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>CP-0905013</td>
<td></td>
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<tr>
<td></td>
<td>CP-0905014</td>
<td></td>
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<tr>
<td></td>
<td>CP-0905017</td>
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<td></td>
<td>CP-0905018</td>
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<td></td>
<td>CP-0905021</td>
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<tr>
<td></td>
<td>CP-0905022</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>CP-0905028</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Former Raytheon Site
#### Radium-228 - Laboratory Blank Data Qualification Summary - SDG 9068

No Sample Data Qualified in this SDG

### Former Raytheon Site
#### Radium-228 - Field Blank Data Qualification Summary - SDG 9068

<table>
<thead>
<tr>
<th>SDG</th>
<th>Sample</th>
<th>Isotope</th>
<th>Modified Final Concentration</th>
<th>A or P</th>
</tr>
</thead>
<tbody>
<tr>
<td>9068</td>
<td>CP-0905001**</td>
<td>Radium-228</td>
<td>2.20U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905002**</td>
<td>Radium-228</td>
<td>4.46U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905023</td>
<td>Radium-228</td>
<td>4.86U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905024</td>
<td>Radium-228</td>
<td>4.07U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905013</td>
<td>Radium-228</td>
<td>1.60U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905014</td>
<td>Radium-228</td>
<td>2.14U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905017</td>
<td>Radium-228</td>
<td>2.51U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905018</td>
<td>Radium-228</td>
<td>1.64U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905021</td>
<td>Radium-228</td>
<td>2.51U pCi/L</td>
<td>A</td>
</tr>
<tr>
<td>SDG</td>
<td>Sample</td>
<td>Isotope</td>
<td>Modified Final Concentration</td>
<td>A or P</td>
</tr>
<tr>
<td>-----</td>
<td>----------</td>
<td>----------</td>
<td>-------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>9068</td>
<td>CP-0905022</td>
<td>Radium-228</td>
<td>1.37U pCi/L</td>
<td>A</td>
</tr>
</tbody>
</table>
**METHOD:** Radium 228 (EPA Method 904.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

<table>
<thead>
<tr>
<th>Validation Area</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical holding times</td>
<td>A Sampling dates: 5-27-09</td>
</tr>
<tr>
<td>Initial calibration</td>
<td>A</td>
</tr>
<tr>
<td>Calibration verification</td>
<td>A</td>
</tr>
<tr>
<td>Blanks</td>
<td>A</td>
</tr>
<tr>
<td>Matrix Spike/(Matrix Spike) Duplicates</td>
<td>MS/D</td>
</tr>
<tr>
<td>Laboratory control samples</td>
<td>LCS</td>
</tr>
<tr>
<td>Chemical recovery</td>
<td>SW</td>
</tr>
<tr>
<td>Sample result verification</td>
<td>A Not reviewed for Level III validation.</td>
</tr>
<tr>
<td>Minimum detectable activity (MDA)</td>
<td>A</td>
</tr>
<tr>
<td>Overall assessment of data</td>
<td>A</td>
</tr>
<tr>
<td>Field duplicates</td>
<td>SW D = 3 + 5, D = 4 + 6</td>
</tr>
<tr>
<td>Field blanks</td>
<td>SW EB = 13</td>
</tr>
</tbody>
</table>

**Note:**
- A = Acceptable
- ND = No compounds detected
- D = Duplicate
- N = Not provided/applicable
- R = Rinsate
- TB = Trip blank
- SW = See worksheet
- FB = Field blank
- EB = Equipment blank

**Validated Samples:** ** Indicates sample underwent Level IV validation

<table>
<thead>
<tr>
<th>Sample ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-0905005</td>
</tr>
<tr>
<td>CP-0905006</td>
</tr>
<tr>
<td>CP-0905001*</td>
</tr>
<tr>
<td>CP-0905002**</td>
</tr>
<tr>
<td>CP-0905023</td>
</tr>
<tr>
<td>CP-0905024</td>
</tr>
<tr>
<td>CP-0905013</td>
</tr>
<tr>
<td>CP-0905014</td>
</tr>
<tr>
<td>CP-0905017</td>
</tr>
<tr>
<td>CP-0905018</td>
</tr>
</tbody>
</table>

**Notes:**
Method: Radiochemistry (EPA Method 904.0)

<table>
<thead>
<tr>
<th>Validation Area</th>
<th>Yes</th>
<th>No</th>
<th>NA</th>
<th>Findings/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Technical holding times</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All technical holding times were met.</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II. Calibration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were all instruments and detectors calibration as required?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were NIST traceable standards used for all calibrations?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Was the check source identified by activity and radionuclide?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were check sources including background counts analyzed at the required frequency and within laboratory control limits?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Blanks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were blank analyses performed as required?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were any activities detected in the blanks greater than the minimum detectable activity (MDA)? If yes, please see the Blanks validation completeness worksheet.</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Matrix spikes and Duplicates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were a matrix spike (MS) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were the MS percent recoveries (%R) within the QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Was a duplicate sample analyzed at the required frequency of 5% in this SDG?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were all duplicate sample duplicate error ratios (DER) ≤ 1.42?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Laboratory control samples</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Was an LCS analyzed per analytical batch?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 75-125%</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VI. Sample Chemical/Cerrier Recovery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Was a tracer/cerrier added to each sample?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were tracer/cerrier recoveries within the QC limits?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VII. Regional Quality Assurance and Quality Control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were performance evaluation (PE) samples performed?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were the performance evaluation (PE) samples within the acceptance limits?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIII. Sample Result Verification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were activities adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were the Minimum Detectable Activities (MDA) &lt; RL?</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Validation Area</td>
<td>Yes</td>
<td>No</td>
<td>NA</td>
<td>Findings/Comments</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>-----</td>
<td>----</td>
<td>----</td>
<td>-------------------</td>
</tr>
<tr>
<td>IX. Overall assessment of data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall assessment of data was found</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to be acceptable.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X. Field duplicates</td>
<td></td>
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VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Radiochemistry (Method: 904.0)

Were field blanks identified in this SDG? (Y) N N/A
Were target isotopes detected in the field blanks? (Y) N N/A

Blank units: pCi/L Associated sample units: pCi/L
Sampling date: 5-27-09

Field blank type: (circle one) Field Blank / Rinsate / Other: EB
Associated Samples: 1 → 12

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<thead>
<tr>
<th>Analyte</th>
<th>Blank ID</th>
<th>Blank Action Limit</th>
<th>Sample Identification</th>
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<tbody>
<tr>
<td>Ra-228</td>
<td>13</td>
<td>1.09 5.45</td>
<td>2.20 4.46 4.86 4.07 1.60 2.14 2.51 1.64 2.51 1.37</td>
</tr>
</tbody>
</table>

Blank units: Associated sample units:
Sampling date:
Field blank type: (circle one) Field Blank / Rinsate / Other:
Associated Samples:

Samples with isotope concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".
<table>
<thead>
<tr>
<th>ID</th>
<th>Matrix</th>
<th>Isotope</th>
<th>%R (limits)</th>
<th>Qualifications</th>
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<tbody>
<tr>
<td>1</td>
<td>Ra-228B</td>
<td>water</td>
<td>137.64 (30-110)</td>
<td>J/US/A</td>
</tr>
</tbody>
</table>

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a carrier added to each sample?
Were carrier recoveries within the control limits?
Were recalculated results acceptable? See Level IV Recalulation Worksheet for recalculation.
VALIDATION FINDINGS WORKSHEET
Field Duplicates

Method: Radiochemistry (Method: 904.0)

Were field duplicate pairs identified in this SDG?
Were target isotopes detected in the field duplicate pairs?

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<td>4.86</td>
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| Isotopes  | Activity (PCi/L) | RPD |
**VALIDATION FINDINGS WORKSHEET**

**Level IV Recalculation Worksheet**

**METHOD:** Radiochemistry (Method: 904.0)

Percent recoveries (\(\%R\)) for a laboratory control sample, a matrix spike and a matrix spike duplicate sample were recalculated using the following formula:

\[
\%R = \frac{\text{Found}}{\text{True}} \times 100
\]

Where, Found = activity of each analyte measured in the analysis of the sample.

True = activity of each analyte in the source.

A matrix spike and matrix spike duplicate relative percent difference (RPD) was recalculated using the following formula:

\[
\text{RPD} = \left| \frac{S - D}{(S + D)/2} \right| \times 100
\]

Where, S = Original sample activity

D = Duplicate sample activity

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Type of Analysis</th>
<th>Analyte</th>
<th>Found/S (units)</th>
<th>True/D (units)</th>
<th>Recalculated</th>
<th>Reported</th>
<th>Acceptable (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCS</td>
<td>Laboratory control sample</td>
<td>Ra-228</td>
<td>7.85 (pci/l)</td>
<td>7.19 (pci/l)</td>
<td>109</td>
<td>109</td>
<td>Y</td>
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<tr>
<td>15</td>
<td>Matrix spike sample</td>
<td>Ra-228</td>
<td>5.35 (pci/l)</td>
<td>7.19 (pci/l)</td>
<td>74.4</td>
<td>74.4</td>
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<tr>
<td>14</td>
<td>Duplicate RPD</td>
<td>Ra-228</td>
<td>0.547 (pci/l)</td>
<td>0.718 (pci/l)</td>
<td>(F/E)</td>
<td>(F/E)</td>
<td></td>
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<tr>
<td>9068 - Yield A for 3</td>
<td>Chemical recovery</td>
<td>Ac-398 for Ra-228</td>
<td>13.25 (dpm)</td>
<td>9.57 (dpm)</td>
<td>138.45</td>
<td>137.64</td>
<td></td>
</tr>
</tbody>
</table>

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Have results been reported and calculated correctly?
- Are results within the calibrated range of the instruments?

Analyte results for **# 3, Ra-228** reported with a positive detect were recalculated and verified using the following equation:

\[
\text{Activity} = \frac{(\text{cpm} - \text{bkgd cpm})}{(2.22)(E)(\text{Vol})(\text{CF})} = \frac{1.33 - 0.388}{2.92(0.3742)(0.604)(1.3764)} \times 1.00 \times 1.46 \times 1.10 \times 1.00 = 2.905 \text{ pCi/l}
\]

<table>
<thead>
<tr>
<th>#</th>
<th>Sample ID</th>
<th>Analyte</th>
<th>Reported Concentration (pCi/L)</th>
<th>Calculated Concentration (pCi/L)</th>
<th>Acceptable (Y/N)</th>
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<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>Ra-228</td>
<td>2.20</td>
<td>2.21</td>
<td>Y</td>
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Note:
Former Raytheon Site
Data Validation Reports
LDC# 21179

Isotopic Uranium
Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Former Raytheon Site
Collection Date: May 26, 2009
LDC Report Date: August 5, 2009
Matrix: Water
Parameters: Isotopic Uranium
Validation Level: Level III
Laboratory: GPL Laboratories

Sample Delivery Group (SDG): 9067

Sample Identification
CP-0905015
CP-0905016
CP-0905019
CP-0905020
CP-0905025
CP-0905026
CP-0905009
CP-0905010
CP-0905015DUP
CP-0905009DUP*
CP-0905009RE*
CP-0905010RE*

*Indicates samples analyzed using Standard Method 7500-U for Isotopic Uranium.
Introduction

This data review covers 12 water samples listed on the cover sheet. The analyses were per Method ACW03 and Standard Method 7500-U for Isotopic Uranium.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U  Indicates the isotope was analyzed for but not detected at or above the stated limit.

J  Indicates an estimated value.

R  Quality control indicates the data is not usable.

N  Presumptive evidence of presence of the constituent.

UJ  Indicates the isotope was analyzed for but not detected. The sample detection limit is an estimated value.

A  Indicates the finding is based upon technical validation criteria.

P  Indicates the finding is related to a protocol/contractual deviation.

None  Indicates the data was not significantly impacted by the finding, therefore qualification was not required.
I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration were met.

Detector efficiency was determined for each radionuclide of interest.

b. Continuing Calibration

Calibration verification and background determination were performed at the required frequencies. Results were within control limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. Blank results contained less than the minimum detectable activity (MDA).

No field blanks were identified in this SDG.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

c. Tracer Recovery

All tracer recoveries were within validation criteria with the following exceptions:
<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Isotope</th>
<th>%R (Limits)</th>
<th>Affected Isotopes</th>
<th>Flag</th>
<th>A or P</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-0905009</td>
<td>Uranium-232</td>
<td>0.33 (30-110)</td>
<td>Uranium-232</td>
<td>J (all detects) R (all non-detects)</td>
<td>A</td>
</tr>
<tr>
<td>CP-0905010</td>
<td>Uranium-232</td>
<td>0.35 (30-110)</td>
<td>Uranium-232</td>
<td>J (all detects) R (all non-detects)</td>
<td>A</td>
</tr>
</tbody>
</table>

V. Minimum Detectable Activity (MDA)

All minimum detectable activities met required detection limits.

VI. Sample Result Verification

Raw data were not reviewed for this SDG.

VII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

VIII. Field Duplicates

Samples CP-0905019 and CP-0905025 and samples CP-0905020 and CP-0905026 were identified as field duplicates. No isotopic uranium was detected in any of the samples with the following exceptions:

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CP-0905019</td>
<td>CP-0905025</td>
</tr>
<tr>
<td>Uranium 233/234</td>
<td>12.2</td>
<td>12.0</td>
</tr>
<tr>
<td>Uranium 238</td>
<td>11.7</td>
<td>11.8</td>
</tr>
<tr>
<td>Uranium 235</td>
<td>0.481</td>
<td>0.857</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CP-0905020</td>
<td>CP-0905026</td>
</tr>
<tr>
<td>Uranium 233/234</td>
<td>12.3</td>
<td>12.3</td>
</tr>
<tr>
<td>Uranium 235</td>
<td>0.584</td>
<td>0.362</td>
</tr>
<tr>
<td>Uranium 238</td>
<td>12.4</td>
<td>11.5</td>
</tr>
</tbody>
</table>
Former Raytheon Site
Isotopic Uranium - Data Qualification Summary - SDG 9067

<table>
<thead>
<tr>
<th>SDG</th>
<th>Sample</th>
<th>Isotope</th>
<th>Flag</th>
<th>A or P</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>9067</td>
<td>CP-0905009</td>
<td>Uranium-232</td>
<td>J (all detects)</td>
<td>A</td>
<td>Tracer recovery (%R)</td>
</tr>
<tr>
<td></td>
<td>CP-0905010</td>
<td></td>
<td>R (all non-detects)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Former Raytheon Site
Isotopic Uranium - Laboratory Blank Data Qualification Summary - SDG 9067

No Sample Data Qualified in this SDG

Former Raytheon Site
Isotopic Uranium - Field Blank Data Qualification Summary - SDG 9067

No Sample Data Qualified in this SDG
METHOD: Isotopic Uranium (Method ACW03 & SM7500-U)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

<table>
<thead>
<tr>
<th>Validation Area</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Technical holding times</td>
<td>A</td>
</tr>
<tr>
<td>IIa. Initial calibration</td>
<td>A</td>
</tr>
<tr>
<td>IIb. Calibration verification</td>
<td>A</td>
</tr>
<tr>
<td>III. Blanks</td>
<td>A</td>
</tr>
<tr>
<td>IVa. Matrix Spike/(Matrix Spike) Duplicates</td>
<td>DUP</td>
</tr>
<tr>
<td>IVa. Laboratory control samples</td>
<td>LC5</td>
</tr>
<tr>
<td>V. Tracer Recovery</td>
<td>SW</td>
</tr>
<tr>
<td>VI. Minimum Detectable Activity (MDA)</td>
<td>AS</td>
</tr>
<tr>
<td>VII. Sample result verification</td>
<td>SW N</td>
</tr>
<tr>
<td>VIII. Overall assessment of data</td>
<td>A</td>
</tr>
<tr>
<td>IX. Field duplicates</td>
<td>SW</td>
</tr>
<tr>
<td>X. Field blanks</td>
<td>N</td>
</tr>
</tbody>
</table>

Note: A = Acceptable
N = Not provided/applicable
D = Duplicate
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
TB = Trip blank
EB = Equipment blank

Validated Samples:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>11</td>
<td>CP-905009</td>
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</tr>
<tr>
<td>2</td>
<td>CP-905016</td>
<td>12</td>
<td>CP-905010</td>
<td>22</td>
</tr>
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</tr>
<tr>
<td>5</td>
<td>CP-905025</td>
<td>15</td>
<td>CP-905007</td>
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<tr>
<td>6</td>
<td>CP-905026</td>
<td>16</td>
<td>CP-905015DUP</td>
<td>26</td>
</tr>
<tr>
<td>7</td>
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<td>17</td>
<td>CP-905009DUP</td>
<td>27</td>
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<td>8</td>
<td>CP-905008</td>
<td>18</td>
<td>CP-905009RE</td>
<td>28</td>
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<td>9</td>
<td>CP-905003</td>
<td>19</td>
<td>CP-905010RE</td>
<td>29</td>
</tr>
<tr>
<td>10</td>
<td>CP-905004</td>
<td>20</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Notes: * = re-analysis by SM7500-U (original analysis by ACW03)

ID: CP-090---
**VALIDATION FINDINGS WORKSHEET**

**Sample Chemical Recovery**

**METHOD:** Radiochemistry (Method: ACW03 & SM7500-U)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- **Y/N/N/A** Was a tracer added to each sample?
- **Y/N/N/A** Were tracer recoveries within the control limits?

**LEVEL IV ONLY:**

- **Y/N/N/A** Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculation.

### Table

<table>
<thead>
<tr>
<th></th>
<th>ID</th>
<th>Matrix</th>
<th>Tracer</th>
<th>%R (Limits)</th>
<th>Associated Isotopes</th>
<th>Associated Samples</th>
<th>method</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>water</td>
<td>U-232</td>
<td>0.33 (30-110)</td>
<td>all</td>
<td>11 (ACW03)</td>
<td>J/R/A</td>
<td>X02</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
<td></td>
<td></td>
<td>0.35 (30-110)</td>
<td></td>
<td>12 (ACW03)</td>
<td></td>
<td></td>
</tr>
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<td></td>
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<td></td>
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</tr>
</tbody>
</table>

**Comments:**

---

**CHEMREC.35**

Version 1.0 (3/2/2000)
VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: Radiochemistry (Method: ACW03)

<table>
<thead>
<tr>
<th>Isotopes</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>U-233/234</td>
<td>12.2</td>
<td>12.0</td>
</tr>
<tr>
<td>U-238</td>
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<td>11.8</td>
</tr>
<tr>
<td>U-235</td>
<td>0.481</td>
<td>0.657</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isotopes</th>
<th>Activity (pCi/L)</th>
<th>RPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>U-233/234</td>
<td>12.0</td>
<td>12.3</td>
</tr>
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<tr>
<td>U-238</td>
<td>12.4</td>
<td>11.5</td>
</tr>
</tbody>
</table>
Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Former Raytheon Site
Collection Date: May 27, 2009
LDC Report Date: August 5, 2009
Matrix: Water
Parameters: Isotopic Uranium
Validation Level: Level III
Laboratory: GPL Laboratories

Sample Delivery Group (SDG): 9068

Sample Identification
CP-0905005
CP-0905006
CP-0905013
CP-0905014
CP-0905017
CP-0905018
CP-0905021
CP-0905022
Introduction

This data review covers 8 water samples listed on the cover sheet. The analyses were per Method ACW03 for Isotopic Uranium.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U     Indicates the isotope was analyzed for but not detected at or above the stated limit.

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A     Indicates the finding is based upon technical validation criteria.

P     Indicates the finding is related to a protocol/contractual deviation.

None  Indicates the data was not significantly impacted by the finding, therefore qualification was not required.
I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration were met.

Detector efficiency was determined for each radionuclide of interest.

b. Continuing Calibration

Calibration verification and background determination were performed at the required frequencies. Results were within control limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. Blank results contained less than the minimum detectable activity (MDA).

No field blanks were identified in this SDG.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

c. Tracer Recovery

All tracer recoveries were within validation criteria.
V. Minimum Detectable Activity (MDA)

All minimum detectable activities met required detection limits.

VI. Sample Result Verification

Raw data were not reviewed for this SDG.

VII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

VIII. Field Duplicates

No field duplicates were identified in this SDG.
Former Raytheon Site
Isotopic Uranium - Data Qualification Summary - SDG 9068

No Sample Data Qualified in this SDG

Former Raytheon Site
Isotopic Uranium - Laboratory Blank Data Qualification Summary - SDG 9068

No Sample Data Qualified in this SDG

Former Raytheon Site
Isotopic Uranium - Field Blank Data Qualification Summary - SDG 9068

No Sample Data Qualified in this SDG
METHOD: Isotopic Uranium (Method ACW03)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

<table>
<thead>
<tr>
<th>Validation Area</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Technical holding times</td>
<td>A</td>
</tr>
<tr>
<td>IIa. Initial calibration</td>
<td>A</td>
</tr>
<tr>
<td>IIb. Calibration verification</td>
<td>A</td>
</tr>
<tr>
<td>III. Blanks</td>
<td>A</td>
</tr>
<tr>
<td>IVa. Matrix Spike/(Matrix Spike) Duplicates</td>
<td>A</td>
</tr>
<tr>
<td>IVb. Laboratory control samples</td>
<td>A</td>
</tr>
<tr>
<td>V. Tracer Recovery</td>
<td>A</td>
</tr>
<tr>
<td>VI. Minimum Detectable Activity (MDA)</td>
<td>A</td>
</tr>
<tr>
<td>VII. Sample result verification</td>
<td>N</td>
</tr>
<tr>
<td>VIII. Overall assessment of data</td>
<td>A</td>
</tr>
<tr>
<td>IX. Field duplicates</td>
<td>N</td>
</tr>
<tr>
<td>X. Field blanks</td>
<td>N</td>
</tr>
</tbody>
</table>

Note:  
A = Acceptable  
N = Not provided/applicable  
ND = No compounds detected  
D = Duplicate  
R = Rinse  
FB = Field blank  
TB = Trip blank  
EB = Equipment blank

Validated Samples: all water

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<td>21</td>
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<tr>
<td>2</td>
<td>CP-0905006</td>
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<td></td>
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</tr>
</tbody>
</table>

Notes: 
MEMORANDUM

Date: August 15, 2009
To: Kim Sawyer, Project Manager, OTIE
Prepared by: Richard Baldino, Senior Project Chemist, OTIE
Subject: Data Validation Review for Raytheon, Canoga Park

Oneida Total Integrated Enterprises (OTIE) conducted groundwater sampling at Raytheon Canoga Park Site 1 as part of a Operation and Maintenance and Groundwater Monitoring program. The samples were analyzed under Work Order (SDG) numbers 9067_9115 and 9068_9089 by GPL Laboratories, Inc. using U.S. Environmental Protection Agency (U.S. EPA) methods 900.0 (Gross Alpha and Beta), 903.1 (Radium-226), and 904.0 (Radium-228). The samples were analyzed under Work Order (SDG) number 3010643 by Pace Analytical Laboratory using U.S. Environmental Protection Agency (U.S. EPA) method 908.0 (Total Uranium). Samples collected under these SDGs are summarized in Table 1.

Analytical results were sent to Laboratory Data Consultants, Inc. (LDC) for data validation. Data were validated under LDC Project Number 21179. Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA540-R-04-004, October 2004) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Validation report number 21179 generated by LDC dated August 10, 2009 was reviewed to assess data quality, data qualification decisions, and validation completeness. No major issues were identified. Minor issues include qualification for blank contamination, tracer recovery deficiencies, and chemical surrogate recovery deficiencies. Minor validation deficiencies are summarized in Table 2. Laboratory data reporting forms along with handwritten data qualifications, where warranted, are included in Attachment 1.

The analytical performance of this data set is very strong. The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable with the qualifications as noted in Table 2 and Attachment 1. Rejection of analytical data was not required.
## Table 1
Sample Cross-Reference Summary
(Raytheon - Canoga Park)

<table>
<thead>
<tr>
<th>Batch ID</th>
<th>Station ID</th>
<th>Sample ID</th>
<th>Sample Date/Time</th>
<th>Received Date</th>
<th>Matrix</th>
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</thead>
<tbody>
<tr>
<td>3010643</td>
<td>MW-16</td>
<td>CP-0905001</td>
<td>5/27/2009 8:00</td>
<td>5/29/2009</td>
<td>Ground Water</td>
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<tr>
<td>3010643</td>
<td>MW-19S</td>
<td>CP-0905004</td>
<td>5/26/2009 12:00</td>
<td>5/29/2009</td>
<td>Ground Water</td>
</tr>
<tr>
<td>3010643</td>
<td>CM-08D</td>
<td>CP-0905006</td>
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<td>5/29/2009</td>
<td>Ground Water</td>
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<td>3010643</td>
<td>MW-20D</td>
<td>CP-0905007</td>
<td>5/26/2009 11:00</td>
<td>5/29/2009</td>
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<td>S9067_9115</td>
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<td>5/27/2009</td>
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<td>S9067_9115</td>
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<td>Ground Water</td>
</tr>
<tr>
<td>3010643</td>
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<td>CP-0905010</td>
<td>5/26/2009 14:00</td>
<td>5/29/2009</td>
<td>Ground Water</td>
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<td>3010643</td>
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<td>CP-0905012</td>
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<td>5/29/2009</td>
<td>Ground Water</td>
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<td>3010643</td>
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<td>End Date/Time</td>
<td>Result</td>
</tr>
<tr>
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**Summary of Qualified Data**

(Raytheon - Canoga Park)

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1) Data Validation Qualifier Codes are as follows:

- **B** - Presumed contamination from preparation (method) blank or field blank.
- **T** - Tracer recovery was outside QC limits.
- **R** - Chemical (surrogate) recovery was outside QC limits.
ATTACHMENT 1

SUMMARY OF ANALYTICAL RESULTS

AND

VALIDATION QUALIFIERS
**Radioanalytical Results**

Report Identification Number: S9068_9089

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**Quality Control Samples**

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S6068_9089

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1000 Monticello Court * Montgomery, Alabama * 36117 * 334.272.2234 * FAX 334.213.0407

Page 8
### GPL Laboratories Alabama, LLC

**Radioanalytical Results**

Report Identification Number: S6088_5089

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### Quality Control Samples

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Report Identification Number: S9068_9089

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Radioanalytical Results

Report Identification Number: S9068_9089

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Quality Control Samples

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9058_6089

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Quality Control Samples

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## Radioanalytical Results

**Project Name:** OTIE - TN& A  
**Site Sample ID:** CP-0905014  
**Other Sample ID:**  
**Chain-of-Custody Number:**  
**Matrix:** Water  
**Collection Date:** 5/27/2009 11:15:00 AM  
**Date Received:** 5/28/2009 8:45:00 AM  
**Batch Number:** 9068  
**Laboratory Code:** SCA

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Report Identification Number: S9068_9069

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**Report Identification Number:** S8088_9089

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### Quality Control Samples

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# Radioanalytical Results

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9066_9089

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**Report Identification Number:** S9068_9059

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

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| Chain-of-Custody Number: | |
| Matrix: | Water |

| Collection Date: | 5/27/2009 11:45:00 AM |
| Batch Number: | 9089 |
| Date Received: | 5/28/2009 8:45:00 |
| Laboratory Code: | SCA |

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: SS088_9089

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| Laboratory Code: SCA  | Laboratory Code: SCA |

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Radioanalytical Results

Report Identification Number: S9088_9089

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Quality Control Samples

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Report Identification Number: S9086_9089

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**Quality Control Samples**

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# Radioanalytical Results

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

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Radioanalytical Results

Report identification Number: S9068_9089

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- **Batch Number:** 9069
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# Radioanalytical Results

Report Identification Number: S9089_9089

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**Report Identification Number:** S9057_9115

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### Radioanalytical Results

**Report Identification Number:** S9067_9115

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**Batch Number:** 9086

**Date Received:** 5/27/2009 11:18:00

**Laboratory Code:** SCA

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<th>Total Error (pCi/L)</th>
<th>MDA (pCi/L)</th>
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Quality Control Samples

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<th>Preparation Blank (PB)</th>
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## Radioanalytical Results

**Project Name:** OTIE - TN&A  
**Site Sample ID:** CP-0905026  
**Other Sample ID:**  
**Chain-of-Custody Number:**  
**Matrix:** Water  
**Collection Date:** 5/26/2009 10:15:00 AM  
**Date Received:** 5/27/2009 11:15:00  
**Batch Number:** 6085  
**Laboratory Code:** SCA

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### Quality Control Samples

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

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Quality Control Samples

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## Radioanalytical Results

Report Identification Number: S9057_9115

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# Radioanalytical Results

Report Identification Number: S9067_9115

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## Quality Control Samples

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Radioanalytical Results

Report Identification Number: S9067_9115

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Quality Control Samples

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### Radioanalytical Results

**Report Identification Number:** S9067_9115

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### Quality Control Samples

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

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Quality Control Samples

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9087_5115

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Quality Control Samples

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Radioanalytical Results

Report Identification Number: S9067_9115

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Quality Control Samples

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GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

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Quality Control Samples

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## ANALYTICAL RESULTS

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<td>Comments:</td>
<td>The LCS recovery for batch 2439 (affecting samples 3010643001 through 3010643020) was biased high and above the default acceptance criteria for batch LCS recovery. The precision between the LCS and LCSD was acceptable. The high LCS may indicate a bias in the sample results. Additionally, several samples had suspended solids and dissolved silica, which may bias the uranium results low. Data is being provided, and re-analysis utilizing other more sensitive methods needs to be determined by the client.</td>
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<table>
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Date: 06/18/2009 04:08 PM

REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

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## ANALYTICAL RESULTS

### Sample: CP-0905027

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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample: CP-0905028</th>
<th>Lab ID: 3010643028</th>
<th>Collected: 05/27/09 13:15</th>
<th>Received: 05/29/09 09:30</th>
<th>Matrix: Water</th>
<th>Parameters</th>
<th>Method</th>
<th>Act ± Unc (MDC)</th>
<th>Units</th>
<th>Analyzed</th>
<th>CAS No.</th>
<th>Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWS:</td>
<td>Site ID:</td>
<td></td>
<td></td>
<td></td>
<td>Total Uranium</td>
<td>EPA 908.0</td>
<td>0.225 ± 0.296 (0.608)</td>
<td>pCi/L</td>
<td>06/16/09 12:23</td>
<td>7440-61-1</td>
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</table>
# Radioanalytical Results

Report Identification Number: S9067_9115

<table>
<thead>
<tr>
<th>Method Number</th>
<th>Radionuclide</th>
<th>Sample ID</th>
<th>Analysis Date/Time</th>
<th>Activity (pCi/L)</th>
<th>2σ Counting Error (pCi/L)</th>
<th>Total Error (pCi/L)</th>
<th>MDA (pCi/L)</th>
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<tbody>
<tr>
<td>EPA 800.0</td>
<td>ALPHA</td>
<td>OTI09-9067-15</td>
<td>09/21/09 08:44</td>
<td>0.046</td>
<td>0.773</td>
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<td>EPA 800.0</td>
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<td>OTI09-9067-15B</td>
<td>09/26/09 13:32</td>
<td>0.590</td>
<td>0.880</td>
<td>0.703</td>
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<td>EPA 903.1</td>
<td>RA-226</td>
<td>OTI09-9067-15</td>
<td>09/04/09 16:58</td>
<td>0.063</td>
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<td>EPA 904.0</td>
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<td>0.614</td>
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### Quality Control Samples

<table>
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<tr>
<th>Radionuclide</th>
<th>Laboratory Control (LC)</th>
<th>Laboratory Duplicate (LD)</th>
<th>Matrix Spike (MS)</th>
<th>Preparation Blank (PB)</th>
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<tbody>
<tr>
<td>Alpha</td>
<td>SCAQC-9067-LC1</td>
<td>SCAQC-9067-LD1</td>
<td>SCAQC-9067-MS1</td>
<td>SCAQC-9067-PB1</td>
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<td>SCAQC-9067-LD1</td>
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<td>SCAQC-9067-PB1B</td>
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<tr>
<td>Ra</td>
<td>SCAQC-9067-LC1</td>
<td>SCAQC-9067-LD1</td>
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<td>SCAQC-9067-PB</td>
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</tbody>
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