October 11, 2012

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R12070405  Quote ID: R411 - Alluvial Wells Dewey Burdock
Project Name: Alluvial Wells/Dewey Burdock

Energy Laboratories Inc. Rapid City SD received the following 7 samples for Powertech USA Inc on 7/24/2012 for analysis.

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Client Sample ID</th>
<th>Collect Date</th>
<th>Receive Date</th>
<th>Matrix</th>
<th>Test</th>
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<tbody>
<tr>
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<td>BC-3</td>
<td>07/23/12 11:47</td>
<td>07/24/12</td>
<td>Aqueous</td>
<td>Metals by ICP/ICPMS, Dissolved Alkalinity, Anion - Cation Balance, Conductivity, Mercury, Total Anions by Ion Chromatography, pH, Dissolved Filtration, Digestion, Mercury by CVAA, Gross Alpha, Gross Beta, Radium 226, Dissolved Radium 228, Dissolved Radon 222, Solids, Total Dissolved</td>
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</table>

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

[Signature]

Linda Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2012.10.11 12:12:49 -06:00
Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.
Comments imported for SUBBED Workorder: C12070940
GROSS ALPHABETA ANALYSIS
The solid residue for this sample was outside of SOP recommended limits, but is still within the calibration curve.
End of comments imported for SUBBED Workorder: C12070940

The chloride for the BC-2 was rechecked for verification of result. The recheck value is reported. The recheck was run out of hold.
LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock
Lab ID: R12070405-001
Client Sample ID: BC-3

Report Date: 08/29/12
Collection Date: 07/23/12 11:47
Date Received: 07/24/12

<table>
<thead>
<tr>
<th>Analyses</th>
<th>Result</th>
<th>Units</th>
<th>Qual</th>
<th>RL</th>
<th>QCL</th>
<th>DF</th>
<th>Method</th>
<th>Analysis Date / By</th>
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<tbody>
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<td>Conductivity, Calculated</td>
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<td>Gross Beta MDC</td>
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<td>Radium 226 precision (±)</td>
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<td>Radium 226 MDC</td>
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<tr>
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<td>D5072-92</td>
<td>07/27/12 10:38/elica</td>
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</table>

- See Case Narrative regarding Gross AlphaBeta analysis.

**RADIONUCLIDES - TOTAL**
Radon 222 | 1700 | pCi/L | 1 | D5072-92 | 07/27/12 10:38/elica |

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration. D - RL increased due to sample matrix.
U - Not detected at minimum detectable concentration.
## REPORT

**Laboratory Analytical Report**

**Prepared by**: Rapid City, SD Branch

**Client**: Powertech USA Inc

**Project**: Alluvial Wells/Dewey Burdock

**Lab ID**: R12070405-001

**Client Sample ID**: BC-3

**Report Date**: 08/29/12

**Collection Date**: 07/23/12 11:47

**Date Received**: 07/24/12

**Matrix**: AQUEOUS

---

## Analyses

### Radionuclides - Total

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<th>Result</th>
<th>Units</th>
<th>Qual</th>
<th>RL</th>
<th>DF</th>
<th>Method</th>
<th>Analysis Date / By</th>
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<tbody>
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### Total Metals Analyses

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<tbody>
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### Dissolved Metals Analyses

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<th>RL</th>
<th>DF</th>
<th>Method</th>
<th>Analysis Date / By</th>
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</tbody>
</table>

**Definitions**

- **RL**: Analyte reporting limit.
- **QCL**: Quality control limit.
- **MCL**: Maximum contaminant level.
- **ND**: Not detected at the reporting limit.
- **MOC**: Minimum detectable concentration.
LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock
Lab ID: R12070405-002
Client Sample ID: BC-3 Dup

<table>
<thead>
<tr>
<th>Analyses</th>
<th>Result</th>
<th>Units</th>
<th>Qual</th>
<th>RL</th>
<th>MCL/QCL</th>
<th>DF</th>
<th>Method</th>
<th>Analysis Date / By</th>
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<tbody>
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<tr>
<td>Conductivity @ 25 C</td>
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<td>su</td>
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<td>A4500-H</td>
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Report Definitions:
- RL - Analyte reporting limit.
- MCL - Maximum contaminant level.
- QCL - Quality control limit.
- ND - Not detected at the reporting limit.
- D - RL increased due to sample matrix.
- MDC - Minimum detectable concentration.
**LABORATORY ANALYTICAL REPORT**

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Lab ID:** R12070405-002  
**Client Sample ID:** BC-3 Dup

---

**Analyses** | **Result** | **Units** | **Qual** | **RL** | **QCL** | **DF** | **Method** | **Analysis Date / By**
--- | --- | --- | --- | --- | --- | --- | --- | ---

**RADIONUCLIDES - TOTAL**

Radon 222 MDC | 245 | pCi/L | 1 | D5072-92 | 07/27/12 10:38/eli-c

**TOTAL METALS ANALYSES**

Mercury | ND | mg/L | 0.0001 | 1 | E245.1 | 07/27/12 14:27/eli-c

**DISSOLVED METALS ANALYSES**

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<th>Method</th>
<th>Analysis Date / By</th>
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**Report Definitions:**
- **RL** - Analyte reporting limit.
- **QCL** - Quality control limit.
- **MCL** - Maximum contaminant level.
- **ND** - Not detected at the reporting limit.

**Matrix:** AQUEOUS
LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock
Lab ID: R12070405-003
Client Sample ID: BC-1

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Report Definitions:
- RL - Analyte reporting limit.
- MCL - Maximum contaminant level.
- QCL - Quality control limit.
- ND - Not detected at the reporting limit.
- MDC - Minimum detectable concentration.
- U - Not detected at minimum detectable concentration.
- D - RL increased due to sample matrix.

Page 7 of 37
## LABORATORY ANALYTICAL REPORT

**Prepared by:** Rapid City, SD Branch

**Client:** Powertech USA Inc

**Project:** Alluvial Wells/Dewey Burdock

**Lab ID:** R12070405-003

**Client Sample ID:** BC-1

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### Analyses

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Report Definitions:
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- MCL - Maximum contaminant level.
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**LABORATORY ANALYTICAL REPORT**

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Project: Alluvial Wells/Dewey Burdock

Lab ID: R12070405-004

Client Sample ID: BC-2

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**Analyses**

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Report Definitions:
- RL - Analyte reporting limit.
- MCL - Maximum contaminant level.
- QCL - Quality control limit.
- ND - Not detected at the reporting limit.
- D - RL increased due to sample matrix.
- U - Not detected at minimum detectable concentration.
- H - Analysis performed past recommended holding time.
- MDC - Minimum detectable concentration.
**LABORATORY ANALYTICAL REPORT**

**Prepared by Rapid City, SD Branch**

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Lab ID:** R12070405-004  
**Client Sample ID:** BC-2

**Analyses**

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<th>RL</th>
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**Report Definitions:**  
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LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 09/29/12
Project: Alluvial Wells/Dewey Burdock
Collection Date: 07/23/12 16:30
Lab ID: R12070405-005
Date Received: 07/24/12
Client Sample ID: DC-2

Matrix: AQUEOUS

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QCL - Quality control limit.
MDC - Minimum detectable concentration.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration.
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# LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc  
Project: Alluvial Wells/Dewey Burdock  
Lab ID: R12070405-005  
Client Sample ID: DC-2  

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Report Definitions:  
- RL - Analyte reporting limit.  
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- ND - Not detected at the reporting limit.  
- MDC - Minimum detectable concentration.  
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### LABORATORY ANALYTICAL REPORT

**Prepared by Rapid City, SD Branch**

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Lab ID:** R12070405-006  
**Client Sample ID:** DC-1  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Collection Date:** 07/24/12 08:00  
**Date Received:** 07/24/12  
**Matrix:** AQUEOUS

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Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock
Lab ID: R12070405-006
Client Sample ID: DC-1

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Report Definitions:
- RL - Analyte reporting limit.
- QCL - Quality control limit.
- MCL - Maximum contaminant level.
- ND - No detected at the reporting limit.
- MDC - Minimum detectable concentration.
- D - RL increased due to sample matrix.
LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock
Lab ID: R12070405-007
Client Sample ID: DC-4

Analyzed by Rapid City, SD Branch

LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock
Lab ID: R12070405-007
Client Sample ID: DC-4

Analyzed by Rapid City, SD Branch

Physical Parameters

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Nutrient Parameters

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Radionuclides - Dissolved

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Radionuclides - Total

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Report

RL - Analyte reporting limit.
MCL - Maximum contaminant level.
QCL - Quality control limit.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration.
**LABORATORY ANALYTICAL REPORT**

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Lab ID:** R12070405-007  
**Client Sample ID:** DC-4  
**Prepared by:** Rapid City, SD Branch  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Collection Date:** 07/24/12 09:07  
**Date Received:** 07/24/12  
**Matrix:** AQUEOUS

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Qualifiers:
- RL - Analyte reporting limit.
- ND - Not detected at the reporting limit.
- MDC - Minimum detectable concentration
Client: Pedertech USA Inc  
Project: Alluvial Wells/Dewey Burdock

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Qualifiers:  
RL - Analyte reporting limit.  
ND - Not detected at the reporting limit.  
MDC - Minimum detectable concentration
# QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Report Date:** 08/29/12  
**Work Order:** R12070405

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**Qualifiers:**
- RL - Analyte reporting limit.
- ND - Not detected at the reporting limit.
- MDC - Minimum detectable concentration
### QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405  

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**Analytical Run:** PH_COND2-R_120724A  
**Batch:** 120724_1_PH-W  
**Run:** PH_COND2-R_120724A  
**Date:** 07/24/12 17:20

**Method:** A4500-H B  
**Sample ID:** R12070405-004ADUP  
**Sample Duplicate**  
**pH**  
**Result:** 7.11  
**Units:** su  
**RPD:** 0.6  
**RPDLimit:** 3

---

**Qualifiers:**  
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MDC - Minimum detectable concentration  
ND - Not detected at the reporting limit.
## QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock

### Method Details
- **Method:** 05072-92  
- **Sample ID:** R12070405-007D  
- **Sample Duplicate:** 3  
- **Run:** SUB-C162524  
- **Batch:** C_R162524  
- **Date:** 07/27/12 10:38

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### Qualifiers:
- **RL** - Analyte reporting limit.
- **MDC** - Minimum detectable concentration
- **ND** - Not detected at the reporting limit.
# QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405

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| Sample ID: ICSA | 12    | Interference Check Sample A |       |    |      |           |            |     |          |      |
| Barium          | 0.00049 | mg/L   | 0.10  |    |      |           |            |     |          |      |
| Boron           | -0.018 | mg/L   | 0.10  |    |      |           |            |     |          |      |
| Cadmium         | 0.0063 | mg/L   | 0.010 |    |      |           |            |     |          |      |
| Calcium         | 460   | mg/L   | 0.50  | 93 | 80   | 120       |            |     |          |      |
| Chromium        | 0.00021 | mg/L  | 0.050 |    |      |           |            |     |          |      |
| Iron            | 180   | mg/L   | 0.030 | 88 | 80   | 120       |            |     |          |      |
| Magnesium       | 500   | mg/L   | 0.50  | 101| 80   | 120       |            |     |          |      |
| Manganese       | 0.017 | mg/L   | 0.010 |    |      |           |            |     |          |      |
| Nickel          | 0.00063 | mg/L  | 0.050 |    |      |           |            |     |          |      |
| Potassium       | -0.031 | mg/L   | 0.50  |    |      |           |            |     |          |      |
| Sodium          | 0.33  | mg/L   | 0.50  |    |      |           |            |     |          |      |
| Zinc            | -0.013 | mg/L   | 0.010 |    |      |           |            |     |          |      |

| Sample ID: ICSAB | 12    | Interference Check Sample AB |       |    |      |           |            |     |          |      |
| Barium          | 0.46  | mg/L   | 0.10  | 93 | 80   | 120       |            |     |          |      |
| Boron           | -0.022 | mg/L  | 0.10  |    |      |           |            |     |          |      |
| Cadmium         | 0.85  | mg/L   | 0.010 | 85 | 80   | 120       |            |     |          |      |
| Calcium         | 470   | mg/L   | 0.50  | 93 | 80   | 120       |            |     |          |      |
| Chromium        | 0.43  | mg/L   | 0.050 | 85 | 80   | 120       |            |     |          |      |
| Iron            | 180   | mg/L   | 0.030 | 88 | 80   | 120       |            |     |          |      |
| Magnesium       | 500   | mg/L   | 0.50  | 101| 80   | 120       |            |     |          |      |
| Manganese       | 0.45  | mg/L   | 0.010 | 90 | 80   | 120       |            |     |          |      |
| Nickel          | 0.86  | mg/L   | 0.050 | 86 | 80   | 120       |            |     |          |      |
| Potassium       | -0.038 | mg/L  | 0.50  |    |      |           |            |     |          |      |
| Sodium          | 0.37  | mg/L   | 0.50  |    |      |           |            |     |          |      |
| Zinc            | 0.82  | mg/L   | 0.010 | 82 | 80   | 120       |            |     |          |      |

| Method: E200.7 |       |        |       |    |      |           |            |     |          |      |
| Sample ID: MB-120727A | 12 | Method Blank | Run: SUB-C162484 | 07/27/12 12:38 | 0.0002 | mg/L |        |        |          |      |

**Qualifiers:**
- **RL** - Analyte reporting limit.
- **MDC** - Minimum detectable concentration
- **ND** - Not detected at the reporting limit.
- **S** - Spike recovery outside of advisory limits.
### QA/QC Summary Report

Client: Powertech USA Inc  
Project: Alluvial Wells/Dewey Burdock  
Work Order: R12070405

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| **Sample ID:** LFB-120727A | 12 Laboratory Fortified Blank | Run: SUB-C162484 | 07/27/12 12:41 |
| Barium        | 0.96 mg/L | 0.10 | 96 | 85 | 115 |
| Boron         | 0.92 mg/L | 0.10 | 92 | 85 | 115 |
| Cadmium       | 0.95 mg/L | 0.010 | 95 | 85 | 115 |
| Calcium       | 52 mg/L   | 0.50 | 104 | 85 | 115 |
| Chromium      | 0.90 mg/L | 0.050 | 90 | 85 | 115 |
| Iron          | 1.00 mg/L | 0.030 | 100 | 85 | 115 |
| Magnesium     | 48 mg/L   | 0.50 | 96 | 85 | 115 |
| Manganese     | 0.91 mg/L | 0.010 | 91 | 85 | 115 |
| Nickel        | 0.97 mg/L | 0.050 | 97 | 85 | 115 |
| Potassium     | 45 mg/L   | 0.50 | 90 | 85 | 115 |
| Sodium        | 49 mg/L   | 0.50 | 97 | 85 | 115 |
| Zinc          | 0.90 mg/L | 0.010 | 90 | 85 | 115 |

| **Sample ID:** C12070943-001BMS2 | 12 Sample Matrix Spike | Run: SUB-C162484 | 07/27/12 13:36 |
| Barium        | 1.02 mg/L | 0.050 | 97 | 70 | 130 |
| Boron         | 0.954 mg/L | 0.050 | 91 | 70 | 130 |
| Cadmium       | 0.962 mg/L | 0.010 | 94 | 70 | 130 |
| Chromium      | 0.920 mg/L | 0.0050 | 90 | 70 | 130 |
| Iron          | 1.31 mg/L | 0.030 | 99 | 70 | 130 |
| Manganese     | 0.973 mg/L | 0.010 | 90 | 70 | 130 |
| Nickel        | 0.983 mg/L | 0.0050 | 96 | 70 | 130 |
| Zinc          | 0.924 mg/L | 0.010 | 91 | 70 | 130 |
| Calcium       | 80.4 mg/L | 1.0 | 104 | 70 | 130 |
| Magnesium     | 53.4 mg/L | 1.0 | 97 | 70 | 130 |
| Potassium     | 50.4 mg/L | 1.0 | 95 | 70 | 130 |
| Sodium        | 77.1 mg/L | 1.0 | 100 | 70 | 130 |

| **Sample ID:** C12070943-001BMS2 | 12 Sample Matrix Spike Duplicate | Run: SUB-C162484 | 07/27/12 13:40 |
| Barium        | 1.03 mg/L | 0.050 | 97 | 70 | 130 | 0.6 | 20 |
| Boron         | 0.946 mg/L | 0.050 | 91 | 70 | 130 | 0.9 | 20 |
| Cadmium       | 0.962 mg/L | 0.010 | 94 | 70 | 130 | 0.0 | 20 |
| Chromium      | 0.913 mg/L | 0.0050 | 90 | 70 | 130 | 0.7 | 20 |
| Iron          | 1.32 mg/L | 0.030 | 100 | 70 | 130 | 0.8 | 20 |

**Qualifiers:**

- RL - Analyte reporting limit.
- ND - Not detected at the reporting limit.
- MDC - Minimum detectable concentration
QA/QC Summary Report
Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock

Revised Date: 10/11/12
Report Date: 08/29/12
Work Order: R12070405

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<th>%REC</th>
<th>Low Limit</th>
<th>High Limit</th>
<th>RPD</th>
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<th>Qual</th>
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<td>Batch: C_R162484</td>
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<td>0.0010</td>
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<td>Nickel</td>
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<td>Zinc</td>
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<td>mg/L</td>
<td>1.0</td>
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<td>70</td>
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<td>Sodium</td>
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<td>mg/L</td>
<td>1.0</td>
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<td>101</td>
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<td>130</td>
<td>0.8</td>
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Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
### QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Report Date:** 08/29/12  
**Work Order:** R12070405  
**Revised Date:** 10/11/12

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<th>Count</th>
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<th>RL</th>
<th>%REC</th>
<th>Low Limit</th>
<th>High Limit</th>
<th>RPD</th>
<th>RPDLimit</th>
<th>Qual</th>
</tr>
</thead>
</table>
| **Method:** E200.7  
**Sample ID:** ICV  
5 Initial Calibration Verification Standard  
Boron 1.0 mg/L  
Calcium 51 mg/L  
Magnesium 52 mg/L  
Potassium 52 mg/L  
Sodium 52 mg/L | 0.10 | 102 | 95 | 105 |
| **Sample ID:** ICSA  
5 Interference Check Sample A  
Boron 0.053 mg/L  
Calcium 500 mg/L  
Magnesium 520 mg/L  
Potassium ND mg/L  
Sodium -0.14 mg/L | 0.10 | 101 | 80 | 120 |
| **Sample ID:** ICSAB  
5 Interference Check Sample AB  
Boron 0.048 mg/L  
Calcium 500 mg/L  
Magnesium 510 mg/L  
Potassium -0.00040 mg/L  
Sodium -0.19 mg/L | 0.10 | 100 | 80 | 120 |
| **Method:** E200.7  
**Sample ID:** MB-120809A  
5 Method Blank Run: SUB-C163079  
Boron ND mg/L  
Calcium ND mg/L  
Magnesium ND mg/L  
Potassium ND mg/L  
Sodium ND mg/L | 0.02 | |
| **Sample ID:** LFB-120809A  
5 Laboratory Fortified Blank Run: SUB-C163079  
Boron 0.92 mg/L  
Calcium 49 mg/L  
Magnesium 48 mg/L  
Potassium 44 mg/L  
Sodium 49 mg/L | 0.10 | 92 | 85 | 115 |
| **Sample ID:** MB-6545  
5 Sample Matrix Spike Run: SUB-C163079  
Boron 0.945 mg/L  
Calcium 51.2 mg/L  
Magnesium 49.7 mg/L  
Potassium 46.1 mg/L  
Sodium 50.9 mg/L | 0.050 | 93 | 70 | 130 |
| **Sample ID:** MB-6545  
5 Sample Matrix Spike Duplicate Run: SUB-C163079  
Boron 0.954 mg/L  
Calcium 50.2 mg/L  
Magnesium 49.3 mg/L | 0.050 | 94 | 70 | 130 |

**Qualifiers:**
- **RL:** Analyte reporting limit.  
- **ND:** Not detected at the reporting limit.  
- **MDC:** Minimum detectable concentration.
# QA/QC Summary Report

**Prepared by:** Rapid City, SD Branch  
**Report Date:** 08/29/12  
**Work Order:** R12070405

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Revised Date:** 10/11/12

## Analyte Count Result Units RL %REC Low Limit High Limit RPD RPDLimit Qual

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<th>RL</th>
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<td>MB-6545</td>
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<td>Potassium 46.0 mg/L</td>
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<td>70</td>
<td>130</td>
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<tr>
<td>E200.7</td>
<td>MB-6545</td>
<td>5</td>
<td>Sodium 50.8 mg/L</td>
<td>1.0</td>
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<td>70</td>
<td>130</td>
<td>0.3</td>
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**Analytical Run:** SUB-C163079  
**Run:** SUB-C163079  
**Date:** 08/09/12 14:47

**Method:** E200.7  
**Sample ID:** ICV  
**Count:** 4  
**Result:** Initial Calibration Verification Standard  
**Run:** SUB-C163260  
**Date:** 08/14/12 12:35

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<th>Magnesium</th>
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<td>51 mg/L</td>
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<td>51 mg/L</td>
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<td>102</td>
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**Method:** E200.7  
**Sample ID:** ICSA  
**Count:** 4  
**Result:** Interference Check Sample A  
**Run:** SUB-C163260  
**Date:** 08/14/12 13:16

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<td>520 mg/L</td>
<td>0.0024 mg/L</td>
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<td>104</td>
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<td>80</td>
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**Method:** E200.7  
**Sample ID:** ICSAB  
**Count:** 4  
**Result:** Interference Check Sample AB  
**Run:** SUB-C163260  
**Date:** 08/14/12 13:20

<table>
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<th>Calcium</th>
<th>Magnesium</th>
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<tr>
<td>510 mg/L</td>
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<td>0.0018 mg/L</td>
<td>-0.12 mg/L</td>
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<td>0.50</td>
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<tr>
<td>103</td>
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**Method:** E200.7  
**Sample ID:** MB-120814A  
**Count:** 4  
**Result:** Method Blank  
**Run:** SUB-C163260  
**Date:** 08/14/12 13:40

<table>
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<tbody>
<tr>
<td>ND mg/L</td>
<td>ND mg/L</td>
<td>ND mg/L</td>
<td>ND mg/L</td>
</tr>
<tr>
<td>0.06</td>
<td>0.03</td>
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**Method:** E200.7  
**Sample ID:** LFB-120814A  
**Count:** 4  
**Result:** Laboratory Fortified Blank  
**Run:** SUB-C163260  
**Date:** 08/14/12 13:44

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<td>97</td>
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**Method:** E200.7  
**Sample ID:** C12080477-002BMS2  
**Count:** 4  
**Result:** Sample Matrix Spike  
**Run:** SUB-C163260  
**Date:** 08/14/12 18:50

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**Method:** E200.7  
**Sample ID:** C12080477-002BMS2  
**Count:** 4  
**Result:** Sample Matrix Spike Duplicate  
**Run:** SUB-C163260  
**Date:** 08/14/12 18:54

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<tr>
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**Qualifiers:**  
RL - Analyte reporting limit.  
ND - Not detected at the reporting limit.  
MDC - Minimum detectable concentration
### QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock

**Report Date:** 08/29/12  
**Work Order:** R12070405

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<th>RPD</th>
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<td>Calcium Initial Calibration Verification Standard</td>
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<td>Calcium Method Blank</td>
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**Method:** E200.7  
**Batch:** C_R163320

**Analytical Run:** SUB-C163320  
**Report Date:** 10/11/12

---

**Qualifiers:**
- **RL** - Analyte reporting limit.
- **ND** - Not detected at the reporting limit.
- **A** - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
- **MDC** - Minimum detectable concentration.
# QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Prepared by:** Rapid City, SD Branch  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405

## Analytical Exes/1811's Sincs “52

Helena, MT 877-472-0711 • Billings, MT 888-235-0515 • Casper, WY 888-686-7175 • Rapid City, SD 888-672-1225 • College Station, IX 888-690-2218

---

## QA/QC Summary Report

**Prepared by:** Rapid City, SD Branch  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405

**QA/QC Summary Report**

### Client: Powertech USA Inc

**Report Date:** 08/29/12

**Project:** Alluvial Wells/Dewey Burdock

**Analyte Count Result Units RL %REC Low Limit High Limit RPO RPOLimit Qual**

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<th>RL</th>
<th>%REC</th>
<th>Low Limit</th>
<th>High Limit</th>
<th>RPD</th>
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<td></td>
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</tr>
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<td>Barium</td>
<td>0.0493</td>
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<td>0.0010</td>
<td>99</td>
<td>90</td>
<td>110</td>
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<td>Cadmium</td>
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<td>0.0010</td>
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<td>90</td>
<td>110</td>
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### Method: E200.8

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**15 Method Blank**  
**Run: SUB-C162824**  
**08/03/12 21:50**

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**15 Laboratory Fortified Blank**  
**Run: SUB-C162824**  
**08/03/12 21:54**

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## Qualifiers:

- **RL** - Analyte reporting limit.
- **MOC** - Minimum detectable concentration
- **ND** - Not detected at the reporting limit.
# QA/QC Summary Report
Prepared by Rapid City, SD Branch

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Report Date:** 08/29/12  
**Work Order:** R12070405  
**Revised Date:** 10/11/12

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**Qualifiers:**  
RL - Analyte reporting limit.  
ND - Not detected at the reporting limit.  
MDC - Minimum detectable concentration
### QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock

**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405

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**Qualifiers:**
- **RL** - Analyte reporting limit.
- **MDC** - Minimum detectable concentration.
- **ND** - Not detected at the reporting limit.

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Page 30 of 37
**QA/QC Summary Report**

*Prepared by Rapid City, SD Branch*

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock

### Analyte Count Result Units RL %REC Low Limit High Limit RPD RPD Limit Qual

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**Qualifiers:**
- RL - Analyte reporting limit.
- MDC - Minimum detectable concentration.
- ND - Not detected at the reporting limit.
- S - Spike recovery outside of advisory limits.
### Client: Powertech USA Inc
Project: Alluvial Wells/Dewey Burdock

#### QA/QC Summary Report
Prepared by Rapid City, SD Branch

**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405

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#### Qualifiers:

- **RL** - Analyte reporting limit.
- **MDC** - Minimum detectable concentration.
- **ND** - Not detected at the reporting limit.

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Page 32 of 37
Client: PowerTech USA Inc
Project: Alluvial Wells/Dewey Burdock

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Qualifier:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.
U - Not detected at minimum detectable concentration.
### Analytical Method: E900.0

**Sample ID: Th230-GrAB-1323**
- **Laboratory Control Sample**
- **Gross Alpha**: 194 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

**Sample ID: Cs137-GrAB-1323**
- **Laboratory Control Sample**
- **Gross Beta**: 172 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

**Sample ID: MB-GrAB-1323**
- **Method Blank**
- **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

**Sample ID: R12070405-001E**
- **Sample Matrix Spike**
  - **Gross Alpha**: 540 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

- **Sample Matrix Spike Duplicate**
  - **Gross Alpha**: 490 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

- **Sample Matrix Spike**
  - **Gross Beta**: 720 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

- **Sample Matrix Spike Duplicate**
  - **Gross Beta**: 770 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

**Sample ID: R12070405-007E**
- **Sample Duplicate**
  - **Gross Alpha**: -5.3 pCi/L
  - **Run**: SUB-C162978
  - **Date & Time**: 08/07/12 17:23

### Qualifiers:
- **RL**: Analyte reporting limit.
- **MDC**: Minimum detectable concentration.
- **ND**: Not detected at the reporting limit.
- **U**: Not detected at minimum detectable concentration.
- **S**: Spike recovery outside of advisory limits.
- **U**: Not reacted at minimum detectable concentration.

---

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Prepared by:** Rapid City, SD Branch  
**Revised Date:** 10/11/12  
**Report Date:** 08/29/12  
**Work Order:** R12070405  
**Page:** 34 of 37
## QA/QC Summary Report

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Prepared by:** Rapid City, SD Branch  
**Report Date:** 08/29/12  
**Work Order:** R12070405  
**Revised Date:** 10/11/12

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**Method:** E903.0  
**Sample ID:** C_RA226-6138  
**Batch:** C_RA226-6138

### Qualifiers:
- **RL** - Analyte reporting limit.  
- **MDC** - Minimum detectable concentration  
- **ND** - Not detected at the reporting limit.  
- **U** - Not detected at minimum detectable concentration

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**QA/QC Summary Report**  
Prepared by Rapid City, SD Branch

**Client:** Powertech USA Inc  
**Project:** Alluvial Wells/Dewey Burdock  
**Report Date:** 08/29/12  
**Work Order:** R12070405

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<tr>
<td>Radium 228</td>
<td>10.7</td>
<td>pCi/L</td>
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</tbody>
</table>

**Qualifiers:**

- **RL** - Analyte reporting limit.  
- **MDC** - Minimum detectable concentration.  
- **ND** - Not detected at the reporting limit.  
- **U** - Not detected at minimum detectable concentration.
### Chain of Custody and Analytical Request Record

**PLEASE PRINT** (Provide as much information as possible.)

**Company Name:**

Scott Environmental

**Report Mail Address:**

PowerTech Inc.

**Invoice Address:**

PowerTech Inc.

**Contact Name:**

Alla Scott

**Phone/Fax:**

073-4459

**Sample Origin:**


e.

**EPA/State Compliance:**

Yes [ ]

No [ ]

**Sampler:**

(Please Print)

**Sample Type**:

Air, Water, Soils, Solids, Vegetation, Biocasscy, Other

**Sample Matrix**:

Water

**Sample ID**:

('Name, Location, Interval, etc.)

Collection Date

Collection Time

1

BC-3

7-23-12

11:47

2

BC-3 Dup

7-23-12

11:55

3

BC-1

7-23-12

13:33

4

BC-2

7-23-12

14:34

5

7O8

7-23-12

15:13

6

OC-2

7-23-12

16:30

7

PC-1

7-24-12

8:00

8

OC-4

7-24-12

9:07

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All subcontract data will be clearly notated on your analytical report.

Visit our website at www.energytech.com for additional information, downloadable fee schedule, forms, and links.

**Custody Record MUST be Signed**

Reinstituted by (print):

Alla Scott

Date/Time:

07/24/12 14:35

Signature:

Alla Scott

Received by (print):

Date/Time:

Signature:

Sample Disposal:

Return to Client

Lab Disposal: