



**Inter-Mountain Labs**  
 Sheridan, WY and Gillette, WY

**- CHAIN OF CUSTODY RECORD -**

Page    of     
 # **148588**

*All shaded fields must be completed.*  
 This is a legal document: any misrepresentation may be construed as fraud.

Client Name <b>Power tech</b>		Project Identification <b>Dewey - Burdock</b>		Sampler (Signature/Attestation of Authenticity) <i>Lisa Scheinost</i>		Telephone #	
Report Address <b>P.O. Box 812 Edgemont, SD</b>		Contact Name <b>Lisa Scheinost</b>		<b>ANALYSES / PARAMETERS</b>			
Invoice Address <b>57735 Same as above</b>		Email <b>escheinost@powertechuranium.com</b>					
		Phone <b>605-662-8308</b>		Purchase Order #		Quote #	

ITEM	LAB ID <small>(Lab Use Only)</small>	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS				REMARKS	
1	<b>3210102-001</b>	<b>10-2-12</b>	<b>1019</b>	<b>DC - 2</b>	<b>AQ</b>	<b>6</b>						
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LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
<b>3.0 - C</b>	<i>Lisa Scheinost</i> Lisa Scheinost	<b>10/3/12</b>	<b>11:00</b>	<i>Kathy Bay</i>	<b>10.4.12</b>	<b>12:17</b>

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input checked="" type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water <b>WT</b> Soil SL Solid SD Filter FT Other OT	<input checked="" type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> <b>RUSH - 5 Working Days</b> <input type="checkbox"/> <b>URGENT - &lt; 2 Working Days</b> <b>Rush &amp; Urgent Surcharges will be applied</b>	Compliance Monitoring? Y/N <b>N</b> Program (SDWA, NPDES,...) PWSID / Permit # _____ Chlorinated? Y/N <b>N</b> Sample Disposal: Lab <input checked="" type="checkbox"/> Client	



**Date:** 11/19/2012

**CLIENT:** Powertec Uranium USA Inc.  
**Project:** Dewy-Burdock GW  
**Lab Order:** S1210102

**CASE NARRATIVE**  
**Report ID:** S1210102002  
(Replaces S1210102001)

Sample DC-2 was received on October 4, 2012.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993  
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998  
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition  
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Powertec Uranium USA Inc.  
P.O. Box 812  
Edgemont, SD 57735

**Date Reported:** 11/19/2012  
**Report ID:** S1210102002  
(Replaces S1210102001)

**ProjectName:** Dewy-Burdock GW  
**Lab ID:** S1210102-001  
**ClientSample ID:** DC-2  
**COC:** 148588

**WorkOrder:** S1210102  
**CollectionDate:** 10/2/2012 10:19:00 AM  
**DateReceived:** 10/4/2012 12:17:00 PM  
**FieldSampler:** LS  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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#### Anions/Cations

Alkalinity, Total (As CaCO3)	286	mg/L		5	SM 2320B	10/06/2012 726 KV
Alkalinity, Bicarbonate as HCO3	349	mg/L		5	SM 2320B	10/06/2012 726 KV
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/06/2012 726 KV
Chloride	926	mg/L		1	EPA 300.0	10/06/2012 018 AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	10/06/2012 726 KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	10/08/2012 1014 AMB
Sulfate	2070	mg/L		1	EPA 300.0	10/06/2012 018 AM
Calcium	481	mg/L		1	EPA 200.7	10/05/2012 1834 DG
Magnesium	135	mg/L		1	EPA 200.7	10/05/2012 1834 DG
Potassium	11	mg/L		1	EPA 200.7	10/05/2012 1834 DG
Sodium	832	mg/L		1	EPA 200.7	10/05/2012 1834 DG

#### General Parameters

pH	8.1	s.u.		0.1	SM 4500 H B	10/06/2012 726 KV
Electrical Conductivity	5090	µmhos/cm		5	SM 2510B	10/06/2012 726 KV
Total Dissolved Solids (180)	5080	mg/L		10	SM 2540	10/05/2012 1621 JCG

#### Data Quality

Cation Sum	71.61	meq/L		0.01	SM 1030E	10/09/2012 1122 LJK
Anion Sum	74.99	meq/L		0.01	SM 1030E	10/09/2012 1122 LJK
Cation-Anion Balance (± 5%)	2.30	%		0.01	SM 1030E	10/09/2012 1122 LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	dec. %		0.01	Calculation	10/09/2012 1152 LJK

These results apply only to the samples tested.

#### RL - Reporting Limit

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	C Calculated Value	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions
	S Spike Recovery outside accepted recovery limits	

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Powertec Uranium USA Inc.  
P.O. Box 812  
Edgemont, SD 57735

**Date Reported:** 11/19/2012  
**Report ID:** S1210102002  
(Replaces S1210102001)

**ProjectName:** Dewy-Burdock GW  
**Lab ID:** S1210102-001  
**ClientSample ID:** DC-2  
**COC:** 148588

**WorkOrder:** S1210102  
**CollectionDate:** 10/2/2012 10:19:00 AM  
**DateReceived:** 10/4/2012 12:17:00 PM  
**FieldSampler:** LS  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Arsenic	0.001	mg/L		0.001	EPA 200.8	10/04/2012 1742	MS
Barium	0.018	mg/L		0.005	EPA 200.8	10/04/2012 1742	MS
Boron	0.3	mg/L		0.1	EPA 200.7	10/05/2012 1834	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	10/04/2012 1742	MS
Chromium	ND	mg/L		0.01	EPA 200.7	10/05/2012 1834	DG
Copper	0.006	mg/L		0.005	EPA 200.8	10/04/2012 1742	MS
Iron	3.49	mg/L		0.05	EPA 200.7	10/05/2012 1834	DG
Lead	ND	mg/L		0.001	EPA 200.8	10/04/2012 1742	MS
Manganese	2.93	mg/L		0.001	EPA 200.7	10/05/2012 1834	DG
Molybdenum	0.004	mg/L		0.001	EPA 200.8	10/04/2012 1742	MS
Nickel	ND	mg/L		0.01	EPA 200.7	10/05/2012 1834	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	10/04/2012 1742	MS
Silver	ND	mg/L		0.003	EPA 200.8	10/04/2012 1742	MS
Uranium	0.0077	mg/L		0.0003	EPA 200.8	10/04/2012 1742	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	10/04/2012 1742	MS
Zinc	ND	mg/L		0.01	EPA 200.7	10/05/2012 1834	DG
<b>Metals - Total</b>							
Mercury	ND	mg/L		0.001	EPA 245.1	10/05/2012 1243	CS
<b>Radionuclides - Dissolved</b>							
Gross Alpha	22.2	pCi/L		11	SM 7110B	11/01/2012 1649	SH
Gross Alpha Precision (±)	8.0	pCi/L			SM 7110B	11/01/2012 1649	SH
Gross Beta	ND	pCi/L		19	SM 7110B	11/01/2012 1649	SH
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	11/01/2012 1649	SH
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	10/30/2012 943	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/30/2012 943	MB
Radium 228	ND	pCi/L		1	Ga-Tech	11/10/2012 1832	MK
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	11/10/2012 1832	MK
<b>Radionuclides - Total</b>							
Radon 222	662	pCi/L		50	ASTM D5072-09	10/04/2012 1946	WN
Radon 222 Precision (±)	24	pCi/L			ASTM D5072-09	10/04/2012 1946	WN

These results apply only to the samples tested.

#### RL - Reporting Limit

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Powertec Uranium USA Inc.  
**Work Order:** S1210102  
**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
**Report ID:** S1210102002  
 (Replaces S1210102001)

**Alkalinity**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/05/12 14:59	Alkalinity, Total (As CaCO3)	ND	5					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/05/12 14:46	Alkalinity, Total (As CaCO3)	575	5	601		95.8	90 - 110	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001AD	10/06/12 7:37	Alkalinity, Bicarbonate as HCO3	329	5	349	5.62		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	270	5	286	5.62		20	

**Conductivity**Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/05/12 14:59	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/05/12 14:46	Electrical Conductivity	1060	5	1120		94.9	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 88014	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001AD	10/06/12 7:37	Electrical Conductivity	5070	5	5090	0.393		20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Powertec Uranium USA Inc.  
**Work Order:** S1210102  
**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
**Report ID:** S1210102002  
 (Replaces S1210102001)

**Dissolved Metals by ICP - EPA 200.7 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 88002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/05/12 11:35	Boron	ND	0.1					
		Chromium	ND	0.01					
		Iron	ND	0.05					
		Manganese	ND	0.02					
		Nickel	ND	0.01					
		Zinc	ND	0.01					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 88002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	10/05/12 11:38	Boron	1.0	0.1	1		103	85 - 115	
		Chromium	1.06	0.01	1		106	85 - 115	
		Iron	1.02	0.05	1		102	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.04	0.01	1		104	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 88002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210098-001CS	10/05/12 18:20	Boron	0.6	0.1	0.5	ND	97.0	70 - 130	
		Chromium	0.52	0.01	0.5	ND	104	70 - 130	
		Iron	1.38	0.05	0.5	1.01	73.4	70 - 130	
		Manganese	0.72	0.02	0.5	0.26	91.0	70 - 130	
		Nickel	0.47	0.01	0.5	ND	93.3	70 - 130	
		Zinc	0.48	0.01	0.5	ND	96.4	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 88002	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1210098-001CSD	10/05/12 18:22	Boron	0.6	0.1	0.6	0.553	96.4	20	
		Chromium	0.50	0.01	0.52	3.38	101	20	
		Iron	1.39	0.05	1.38	1.04	76.2	20	
		Manganese	0.72	0.02	0.72	0.320	90.6	20	
		Nickel	0.46	0.01	0.47	1.39	92.0	20	
		Zinc	0.48	0.01	0.48	1.33	95.1	20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Powertec Uranium USA Inc.  
**Work Order:** S1210102  
**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
**Report ID:** S1210102002  
(Replaces S1210102001)

**Dissolved Metals by ICP - EPA 200.7 - Water**

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 88002	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210097-001CD	10/05/12 18:15	Boron	0.1	0.1	0.1	0.252		20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			20	
		Nickel	ND	0.01	ND			20	
		Zinc	ND	0.01	ND			20	

**Dissolved Metals by ICPMS EPA 200.8 - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 87963	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK	10/04/12 12:41	Arsenic	ND	0.005					
		Barium	ND	0.1					
		Cadmium	ND	0.002					
		Copper	ND	0.01					
		Lead	ND	0.02					
		Molybdenum	ND	0.02					
		Selenium	ND	0.005					
		Silver	ND	0.003					
		Uranium	ND	0.001					
		Vanadium	ND	0.02					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 87963	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/04/12 12:36	Arsenic	0.100	0.005	0.1		100	85 - 115	
		Barium	ND	0.1	0.1		93.6	85 - 115	
		Cadmium	0.099	0.002	0.1		99.2	85 - 115	
		Copper	0.10	0.01	0.1		102	85 - 115	
		Lead	0.10	0.02	0.1		98.0	85 - 115	
		Molybdenum	0.10	0.02	0.1		96.6	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Silver	0.104	0.003	0.1		104	85 - 115	
		Uranium	0.098	0.001	0.1		98.1	85 - 115	
		Vanadium	0.10	0.02	0.1		102	85 - 115	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Powertec Uranium USA Inc.  
**Work Order:** S1210102  
**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
**Report ID:** S1210102002  
 (Replaces S1210102001)

**Dissolved Metals by ICPMS EPA 200.8 - Water**

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 87963	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210096-001CS	10/04/12 17:08	Arsenic	1.10	0.005	1.1	ND	99.8	70 - 130	
		Barium	1.0	0.1	1.1	ND	91.5	70 - 130	
		Cadmium	1.07	0.002	1.1	ND	97.7	70 - 130	
		Copper	1.11	0.01	1.1	ND	100	70 - 130	
		Lead	1.04	0.02	1.1	ND	94.8	70 - 130	
		Molybdenum	1.21	0.02	1.1	0.12	98.9	70 - 130	
		Selenium	1.11	0.005	1.1	ND	101	70 - 130	
		Uranium	1.94	0.001	1.1	0.900	94.5	70 - 130	
		Vanadium	1.16	0.02	1.1	ND	106	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 87963	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1210096-001CMSD	10/04/12 17:13	Arsenic	1.09	0.005	1.10	0.508	99.3	20	
		Barium	1.0	0.1	1.0	0.778	90.8	20	
		Cadmium	1.08	0.002	1.07	0.829	98.5	20	
		Copper	1.13	0.01	1.11	2.24	103	20	
		Lead	1.06	0.02	1.04	1.27	96.0	20	
		Molybdenum	1.20	0.02	1.21	0.540	98.3	20	
		Selenium	1.11	0.005	1.11	0.473	100	20	
		Uranium	1.92	0.001	1.94	0.865	93.0	20	
		Vanadium	1.12	0.02	1.16	3.74	102	20	

**Fluoride by SM 4500**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/05/12 14:59	Fluoride	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/05/12 14:46	Fluoride	2.9	0.1	2.96		97.2	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210096-001ASPK	10/06/12 6:33	Fluoride	2.4	0.1	2.5	0.3	84.7	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 88014	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001AD	10/06/12 7:37	Fluoride	0.4	0.1	0.4	2.08		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Powertec Uranium USA Inc.  
**Work Order:** S1210102  
**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
**Report ID:** S1210102002  
 (Replaces S1210102001)

**Gross Alpha, Beta by SM 7110B**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 89248	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-298	11/01/12 1:09	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 89248	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-298	11/01/12 1:09	Gross Alpha (Dissolved)	84	2	70		119	83 - 133	
		Gross Beta (Dissolved)	139	3	126		111	88 - 115	

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 89248	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210224-001FMS	11/01/12 16:49	Gross Alpha (Dissolved)	142	2	140	3	99.8	48 - 153	
		Gross Beta (Dissolved)	271	4	251	5	106	60 - 140	

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 89248	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210181-002EDUP	11/02/12 8:16	Gross Alpha (Dissolved)	48	3	42	15.1		20	
		Gross Beta (Dissolved)	44	4	42	6.38		20	

**Anions by ION Chromatography**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 88025	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/05/12 12:56	Chloride	ND	1					
		Sulfate	ND	1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 88025	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	10/05/12 12:29	Chloride	30	1	30		98.7	90 - 110	
		Sulfate	144	1	150		96.0	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 88025	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210107-002ASPK	10/06/12 1:11	Chloride	125	1	80	40	106	80 - 120	
		Sulfate	1020	1	640	317	111	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 88025	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210107-002A	10/06/12 0:58	Chloride	39	1	40	0.655		20	
		Sulfate	317	1	317	0.277		20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Powertec Uranium USA Inc.  
**Work Order:** S1210102  
**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
**Report ID:** S1210102002  
 (Replaces S1210102001)

**Cations by ICP (Method 200.7)**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 87997	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/05/12 11:35	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 87997	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	10/05/12 11:40	Calcium	41	1	40		103	85 - 115	
		Magnesium	41	1	40		103	85 - 115	
		Potassium	42	1	40		104	85 - 115	
		Sodium	40	1	40		99.5	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 87997	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210095-001AS	10/05/12 17:49	Calcium	163	1	150	9	103	70 - 130	
		Magnesium	156	1	150	2	103	70 - 130	
		Potassium	160	1	150	2	106	70 - 130	
		Sodium	270	1	150	103	111	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 87997	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1210095-001ASD	10/05/12 17:52	Calcium	164	1	163	0.262	103	20	
		Magnesium	156	1	156	0.0269	103	20	
		Potassium	160	1	160	0.0681	106	20	
		Sodium	270	1	270	0.0437	111	20	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 87997	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210097-001AD	10/05/12 18:15	Calcium	34	1	35	0.221		20	
		Magnesium	14	1	14	0.157		20	
		Potassium	8	1	8	0.0288		20	
		Sodium	37	1	37	0.157		20	

**Qualifiers:**

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits		



### ANALYTICAL QC SUMMARY REPORT

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(Replaces S1210102001)

**Nitrogen, Nitrate-Nitrite (as N)**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 88030	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/08/12 9:02	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 88030	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	10/08/12 9:05	Nitrogen, Nitrate-Nitrite (as N)	18.7	0.1	19.3		96.8	90 - 110	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 88030	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210062-006C	10/08/12 9:24	Nitrogen, Nitrate-Nitrite (as N)	4.1	0.1	5	ND	81.1	80 - 120	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 88030	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001C	10/08/12 10:15	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND			20	

**Radium 228 by Ga/Tech**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 89500	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-6551	11/08/12 21:17	Radium 228 (Dissolved)	ND	1					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 89500	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-6551	11/09/12 0:18	Radium 228 (Dissolved)	34	1	46.3		74.0	63.8 - 119	

Sample Type **LCSD** Units: pCi/L

Sample ID	RunNo: 89500	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
LCSD-6551	11/09/12 3:19	Radium 228 (Dissolved)	37	1	34	8.36	80.2	20	

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 89500	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TAP WATER MS-6651	11/09/12 9:21	Radium 228 (Dissolved)	31	1	46.3	ND	66.0	52.4 - 145	

Sample Type **MSD** Units: pCi/L

Sample ID	RunNo: 89500	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD-	11/09/12 12:22	Radium 228 (Dissolved)	35	1	31	14.7	75.7	30	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Powertec Uranium USA Inc.  
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(Replaces S1210102001)

**Radium 226 in Water - Dissolved**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 89076	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-298	10/30/12 19:54	Radium 226 (Dissolved)	ND	0.2					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 89076	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-298	10/30/12 9:43	Radium 226 (Dissolved)	5.1	0.2	5		102	62.5 - 125	

Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 89076	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210085-003FMS	10/30/12 19:54	Radium 226 (Dissolved)	5.0	0.2	5	ND	100	41.6 - 146	

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 89076	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210085-002FDUP	10/30/12 19:54	Radium 226 (Dissolved)	0.2	0.2	ND			20	

**Radon 222 in Water ASTM D5072-09**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 88095	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-6478	10/04/12 16:48	Radon-222	ND	50					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 88095	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-6478	10/04/12 16:48	Radon-222	18700	50	18500		101	70 - 130	

Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 88095	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001AD	10/04/12 20:21	Radon-222	640	50	660	3.24		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Powertec Uranium USA Inc.  
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**Project:** Dewy-Burdock GW

**Date:** 11/19/2012  
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 (Replaces S1210102001)

**Solids By SM 2540**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 88069	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	10/05/12 16:02	Total Dissolved Solids (180)	ND	10					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 88069	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	10/05/12 16:03	Total Dissolved Solids (180)	230	10	226		100	90 - 110	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 88069	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210095-003A	10/05/12 16:14	Total Dissolved Solids (180)	370	10	400	7.00		20	

**Total Mercury by EPA 245.1 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 87988	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	10/05/12 10:00	Mercury	ND	0.001					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 87988	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/05/12 9:58	Mercury	0.002	0.001	0.002		101	85 - 115	

Sample Type **MS** Units: mg/L

Sample ID	RunNo: 87988	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1210102-001E	10/05/12 12:46	Mercury	0.002	0.001	0.00244	ND	102	70 - 130	

Sample Type **MSD** Units: mg/L

Sample ID	RunNo: 87988	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1210102-001E	10/05/12 12:48	Mercury	0.002	0.001	0.002	0.565	101	20	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 87988	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001E	10/05/12 12:44	Mercury	ND	0.001	ND			20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Powertec Uranium USA Inc.

**Date:** 11/19/2012

**Work Order:** S1210102

**Report ID:** S1210102002

**Project:** Dewy-Burdock GW

(Replaces S1210102001)

**pH Water**

Sample Type **LCS** Units: s.u.

Sample ID	RunNo: 88014	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/05/12 14:46	pH	8.7	0.1	8.48		102	90 - 110	

Sample Type **DUP** Units: s.u.

Sample ID	RunNo: 88014	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1210102-001AD	10/06/12 7:37	pH	8.1	0.1	8.1	0.196		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits