

EXHIBIT F



ON-SITE TECHNICAL SERVICES, INC

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 12, 2014

Mr. Mark Domagala
NYSDEC – Region 8
Division of Solid and Hazardous Materials
6274 East Avon-Lima Road
Avon, New York 14414

Re: Hakes C & D Landfill Painted Post, New York – 4th Quarter 2013 Radiological Test Results

Dear Mark:

On behalf of Hakes C & D Landfill, the purpose of this letter is to present results of the fourth quarter 2013 leachate radiological testing. Leachate sampling and analysis for radiological testing is required as detailed in section 2.6.3 of the March 2012 Environmental Monitoring Plan (EMP). The initial radiological sampling of each landfill cell and combined leachate was completed in May 2012. Therefore, the sampling required in the fourth quarter 2013 includes only landfill cells which contain gas well waste. Currently the cells containing gas well waste includes Cells 5 and 6. Leachate samples were collected from Cells 5 and 6 on November 6, 2013 and sent to ALS Environmental in Rochester, New York. A laboratory results summary table that includes maximum detected concentrations (MDC), field sampling forms and the laboratory analytical report are attached.

Please feel free to call myself at 585-593-1824 or Joe Boyles at 585-466-7271 if you have any questions.

Sincerely,

Jonathan E. Brandes, P.G.
Senior Geologist

cc: Joe Boyles, Casella Waste Systems Inc.

Enclosures

Mark Amann, NYSDEC
Richard Clarkson, NYSDEC
Timothy Rice, NYSDEC

Table 1

Fourth Quarter 2013 Leachate Radiological Analytical Results
Hakes C and D Landfill
Painted Post, New York
(pCi/L)

Parameter	Cell 5 Leachate 11/6/2013	Cell 6 Leachate 11/6/2013
Actinium-228	-1.515 ± 31.550 (44.23)	3.731 ± 23.437 (44.29)
Actinium-228, Dissolved	-5.263 ± 52.415 (43.25)	-6.774 ± 88.042 (50.24)
Bismuth-212	-13.743 ± 549.740 (182.3)	-38.698 ± 188.190 (163.9)
Bismuth-212, Dissolved	31.422 ± 63.942 (113.6)	-7.919 ± 316.740 (163.8)
Bismuth-214	186.460 ± 33.504 (19.71)	450.210 ± 63.878 (27.69)
Bismuth-214, Dissolved	50.799 ± 14.979 (15.3)	537.350 ± 70.694 (19.97)
Cesium-134	1.346 ± 23.514 (39.6)	-2.014 ± 35.919 (60.04)
Cesium-134, Dissolved	0.000 ± 13.128 (22.55)	1.349 ± 41.714 (69.61)
Cesium-137	-0.243 ± 5.802 (9.642)	0.271 ± 6.598 (11.92)
Cesium-137, Dissolved	-0.105 ± 7.143 (9.56)	-2.554 ± 13.479 (14.74)
Lead-212	13.493 ± 10.788 (17.79)	57.948 ± 18.576 (27.5)
Lead-212, Dissolved	2.371 ± 8.658 (15.87)	75.475 ± 22.154 (23.09)
Lead-214	188.830 ± 34.085 (21.45)	432.490 ± 59.577 (25.03)
Lead-214, Dissolved	49.889 ± 15.466 (20.4)	563.230 ± 72.309 (24.69)
Potassium-40	16.102 ± 67.685 (140.9)	59.864 ± 86.218 (159.3)
Potassium-40, Dissolved	45.325 ± 76.125 (146)	299.730 ± 96.482 (106.7)
Radium-226	180.910 ± 135.860 (193.4)	61.980 ± 161.570 (284.9)
Radium-226 (EPA 903.1)	2.57 ± 1.71 (0.774)	1.28 ± 1.47 (0.87)
Radium-226, Dissolved	40.459 ± 108.470 (201.6)	1.854 ± 186.260 (328)
Radium-226, Dissolved (EPA 903.1)	0.771 ± 0.945 (1.32)	1.24 ± 0.999 (1.24)
Radium-228	-1.515 ± 31.550 (44.23)	3.731 ± 23.437 (44.29)
Radium-228 (EPA 904.0)	2.29 ± 2.48 (4.47)	1.72 ± 1.30 (2.26)
Radium-228, Dissolved	-5.263 ± 52.415 (43.25)	-6.774 ± 88.042 (50.24)
Radium-228, Dissolved (EPA 904.0)	1.92 ± 0.795 (1.21)	2.71 ± 1.02 (1.5)
Thallium-208	-0.294 ± 7.841 (10.27)	1.912 ± 6.620 (11.87)
Thallium-208, Dissolved	-2.025 ± 20.895 (10.7)	-1.581 ± 16.329 (11.65)
Thorium-232	423.750 ± 3507.300 (6138)	-1637.200 ± 92402.000 (79)
Thorium-232, Dissolved	267.070 ± 2983.200 (5328)	511.900 ± 4679.000 (8051)
Thorium-234	1.122 ± 196.560 (348.2)	-68.843 ± 1176.300 (439)
Thorium-234, Dissolved	-14.922 ± 218.470 (308.7)	-16.941 ± 355.100 (463.6)
Total Uranium	0.689 ± 0.672 (1.09)	0.866 ± 0.531 (0.773)
Total Uranium, Dissolved	1.17 ± 0.597 (0.8)	0.693 ± 0.216 (0.205)
Uranium-235	12.897 ± 40.224 (68.86)	-22.747 ± 79.996 (86.53)
Uranium-235, Dissolved	21.278 ± 35.176 (59.57)	-24.889 ± 93.288 (88.56)
Uranium-238	63.211 ± 109.740 (188.1)	38.315 ± 135.950 (233.3)
Uranium-238, Dissolved	98.808 ± 96.080 (160.1)	-41.734 ± 2030.000 (259.7)

Note: Values in parentheses represent maximum detected concentration

Groundwater Suppression and Leachate Sampling Field Form

On-Site Technical Services, Inc.

Project: Hakes C&D Landfill, Painted Post, New York

Date: 11-6-13

Sampling Location: Cell 5 Sample ID: Cell 5-1113 Arrival Time: 1122

Weather Conditions:

Temp 54 °F () Sunny () Partly Cloudy (X) Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 5-10 mph w/ gusts

Location Type

() Groundwater Suppression (X) Leachate () Secondary Leachate () Surface Water/Sediment () Res. Water
() Other _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: NA

Comments: _____

Field Parameters (as appropriate)

Meter: YSI 556 (sn: 0502374AW), Hach 2100P (sn: 12410)

Field Parameters tested in: () Submerged Probe (X) Cup

Note: *Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1140</u>	<u>6.88</u>	<u>5594</u>	<u>69.1</u>	<u>NA</u>	<u>16.46</u>	<u>-6.5</u>

Sample Information

Sample Type: (X) Grab () Composite Sample Location: (X) Discharge Pipe () Pond () Ditch

Location Description/Condition: Riser pipe adjacent to mw-N

Sample Collection Equipment/Method: 5 GAL Buck Sample Time: 1140

Sample Description (clarity/color): Transparent Black Int. Sample Odor (Y) or (N) Explain: leachate odor

Other Observations/Comments: _____

Analysis Requested: _____ Number of Containers: 10

Sampling Completion: Time 1208 Date 11-6-13 Samplers KDYK

Groundwater Suppression and Leachate Sampling Field Form

On-Site Technical Services, Inc.

Project: Hakes C&D Landfill, Painted Post, New York

Date: 11-6-13

Sampling Location: Cell-6 Sample ID: Cell6-1113 Arrival Time: 1213

Weather Conditions:

Temp. 56° F () Sunny Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 5-10 mph w/ Gusts

Location Type

() Groundwater Suppression Leachate () Secondary Leachate () Surface Water/Sediment () Res. Water
() Other _____

Flow and Depth Information (as appropriate)

Depth: NA Estimated Flow: NA

Comments: _____

Field Parameters (as appropriate)

Meter: YSI 556 (sn: 05D2374AW), Hach 2100P (sn: 12410)

Field Parameters tested in: () Submerged Probe Cup

Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1230</u>	<u>6.50</u>	<u>10784</u>	<u>51.1</u>	<u>NA</u>	<u>17.52</u>	<u>-109.7</u>

Sample Information

Sample Type: Grab () Composite Sample Location: Riser Discharge Pipe () Pond () Ditch

Location Description/Condition: Riser pipe next to GSSG Control Panel

Sample Collection Equipment/Method: 5 gal bucket Sample Time: 1230

Sample Description (clarity/color): Transparent/Bkck tint Sample Odor: (Y) or (N) Explain: leachate odor

Other Observations/Comments: _____

Analysis Requested: _____ Number of Containers: 10

Sampling Completion: Time 1251 Date 11-6-13 Samplers K Dye



1565 Jefferson Rd., Bldg 300, Suite 360
Rochester, NY 14623
T: +1 585 288 5380
F: +1 585 288 8475
www.alsglobal.com

December 3, 2013

Mr. Joe Boyles
Casella Waste Systems
Hyland Facility
6653 Herdman Road
Angelica, NY 14709

Re: Hakes C&D Landfill – Leachate
Service Request # R1308385

Dear Mr. Boyles:

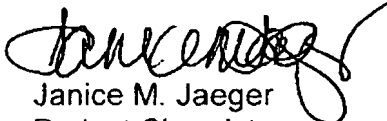
Enclosed is the analytical data report for the above referenced facility. A total of one sample was subcontracted to Pace Analytical for Radiological Testing.

This report consists of one (1) package: the sample data summary package. The summary package has been e-mailed to your attention and to On-Site. A hard copy of the summary package has also been mailed to On-Site. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Thank you for your continued use of our services.

Sincerely,

ALS Environmental


Janice M. Jaeger
Project Chemist

enc.

cc: Mr. Jon Brandes
On-Site
72 Railroad Avenue
Wellsville, NY 14895



ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: **Casella/On-Site**
4376 Manning Ridge Road
Painted Post, NY 14870
Project Manager: **Joe Boyles/Jon Brandes**

CHAIN of CUSTODY

Project: **Hakes C&D Landfill - Leachate**
Telephone No. 585-593-1824
Email: jonb@on-sitchs.com

Method of Shipment

Special Detection Limit/Reporting

PDF to Joe and On-Site.
Hard copy and EDD to On-Site.

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	Total: Gamma Spec (901.1), Ra-226 (903.1), Ra-228 (904.0)	Total: Uranium (908.0)	Dissolved: Gamma Spec (901.1), Ra-226 (903.1), Ra-228 (904.0)	Dissolved: Uranium (908.0)								
			Soil	Water	Air	Other	Yes	No														
Cell 5-1113		10	X				X	11-6-13	1140	X	X	X	X	X								
Cell 6-1113		10	X				X	11-6-13	1230	X	X	X	X	X								
<p>Note: Dissolved analysis requires lab filtering</p>																						

REMARKS

Sample Received Intact: Yes No Temperature received: Ice No ice

Relinquished by (Sign & Print Name) <i>Kevin Oye</i>	Date 11-6-13	Time 1530	Received by (Sign & Print Name)
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory <i>Steve DePa</i>
	Date 11/7/13	Time 0910	

Lab Work No.

R1308385 5
Casella Waste Systems
Hakes C&D Landfill - Leachate



Cooler Receipt and Preservation Check Form

Project/Client Caulla Folder Number _____

Cooler received on 11/2/13 by: AP/KE COURIER: ALS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? ALS/ROC CLIENT
7. Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
8. Temperature of cooler(s) upon receipt: 5.1° 3.1° 1.6° 1.1° 3.0° 3.1°

Is the temperature within 0° - 6° C?: YN BN YN YN YN YN

If No, Explain Below Date/Time Temperatures Taken: 11/2/13 0919

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location Room by AP on 11/2/13 at 0926
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: _____

Cooler Breakdown: Date: 11/2/13 Time: 1617 by: JFS

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES NO		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH									No = Samples were preserved at lab as listed
≤2	HNO ₃	<input checked="" type="checkbox"/>		<u>DD26131C</u>	<u>10/14</u>					
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						PM OK to Adjust:
	Na ₂ S ₂ O ₃	-	-							
	Zn Aceta	-	-							
	HCl	*	*							

*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet

Bottle lot numbers: 121712-277

Other Comments:

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



December 03, 2013

Ms. Janice Jaeger
ALS Environmental Columbia
1565 Jefferson Road
Building 300
Rochester, NY 14623

RE: Project: R1308385
Pace Project No.: 30106949

Dear Ms. Jaeger:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin Ferris

carin.ferris@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: R1308385
Pace Project No.: 30106949

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/TNI Certification #: LA080002

Louisiana/TNI Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE SUMMARY

Project: R1308385
Pace Project No.: 30106949

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30106949001	R1308385-001	Water	11/06/13 11:40	11/08/13 09:55
30106949002	R1308385-002	Water	11/06/13 12:30	11/08/13 09:55
30106949003	R1308385-003	Water	11/06/13 11:40	11/08/13 09:55
30106949004	R1308385-004	Water	11/06/13 12:30	11/08/13 09:55

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: R1308385
 Pace Project No.: 30106949

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30106949001	R1308385-001	EPA 901.1m	MAH	15
		EPA 903.1	SLA	1
		EPA 904.0	MAW	1
		EPA 908.0	LAL	1
30106949002	R1308385-002	EPA 901.1m	MAH	15
		EPA 903.1	SLA	1
		EPA 904.0	MAW	1
		EPA 908.0	LAL	1
30106949003	R1308385-003	EPA 901.1m	MAH	15
		EPA 903.1	SLA	1
		EPA 904.0	MAW	1
		EPA 908.0	LAL	1
30106949004	R1308385-004	EPA 901.1m	MAH	15
		EPA 903.1	SLA	1
		EPA 904.0	MAW	1
		EPA 908.0	LAL	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE

Project: R1308385
Pace Project No.: 30106949

Method: EPA 901.1m
Description: 901.1 Gamma Spec
Client: ALS Environmental Columbia
Date: December 03, 2013

General Information:

4 samples were analyzed for EPA 901.1m. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

- Dissolved fraction
- R1308385-003 (Lab ID: 30106949003)
 - R1308385-004 (Lab ID: 30106949004)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: R1308385
Pace Project No.: 30106949

Method: EPA 903.1
Description: 903.1 Radium 226
Client: ALS Environmental Columbia
Date: December 03, 2013

General Information:

2 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

Project: R1308385
Pace Project No.: 30106949

Method: EPA 903.1
Description: 903.1 Radium 226, Dissolved
Client: ALS Environmental Columbia
Date: December 03, 2013

General Information:

2 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

Dissolved fraction

- R1308385-003 (Lab ID: 30106949003)
- R1308385-004 (Lab ID: 30106949004)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE

Project: R1308385

Pace Project No.: 30106949

Method: EPA 904.0

Description: 904.0 Radium 228

Client: ALS Environmental Columbia

Date: December 03, 2013

General Information:

2 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

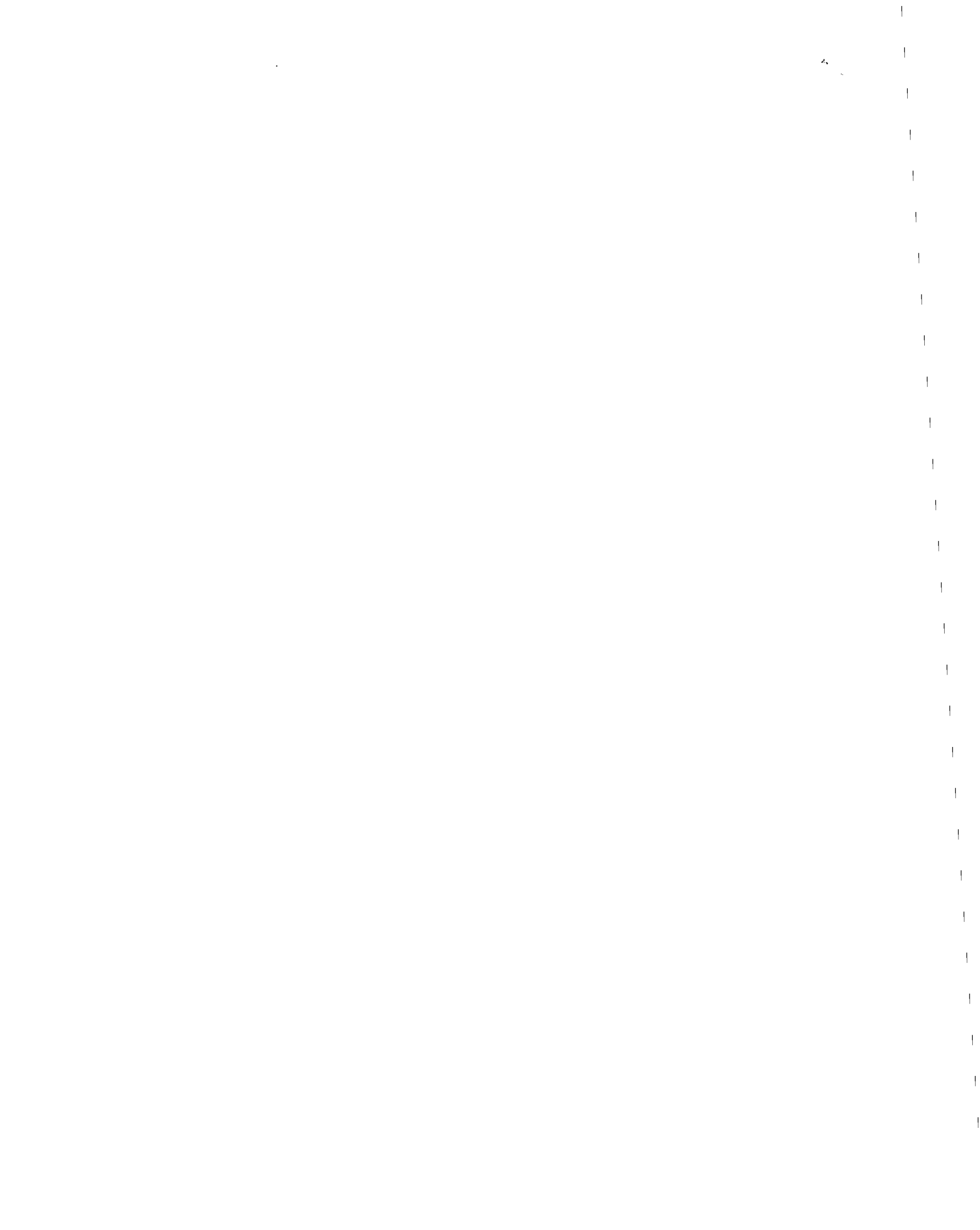
Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..





PROJECT NARRATIVE

Project: R1308385
Pace Project No.: 30106949

Method: EPA 904.0
Description: 904.0 Radium 228, Dissolved
Client: ALS Environmental Columbia
Date: December 03, 2013

General Information:

2 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

Dissolved fraction

- R1308385-003 (Lab ID: 30106949003)
- R1308385-004 (Lab ID: 30106949004)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE

Project: R1308385
Pace Project No.: 30106949

Method: EPA 908.0
Description: 908.0 Total Uranium
Client: ALS Environmental Columbia
Date: December 03, 2013

General Information:

4 samples were analyzed for EPA 908.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

Dissolved fraction

- R1308385-003 (Lab ID: 30106949003)
- R1308385-004 (Lab ID: 30106949004)

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: R1308385
 Pace Project No.: 30106949

Sample: R1308385-001 Lab ID: 30106949001 Collected: 11/06/13 11:40 Received: 11/08/13 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Actinium-228	EPA 901.1m	-1.515 ± 31.550 (44.230)	pCi/L	11/30/13 09:26	14331-83-0	
Bismuth-212	EPA 901.1m	-13.743 ± 549.740 (182.300)	pCi/L	11/30/13 09:26	14913-49-6	
Bismuth-214	EPA 901.1m	186.460 ± 33.504 (19.710)	pCi/L	11/30/13 09:26	14733-03-0	
Cesium-134	EPA 901.1m	1.346 ± 23.514 (39.600)	pCi/L	11/30/13 09:26	13967-70-9	
Cesium-137	EPA 901.1m	-0.243 ± 5.802 (9.642)	pCi/L	11/30/13 09:26	10045-97-3	
Lead-212	EPA 901.1m	13.493 ± 10.788 (17.790)	pCi/L	11/30/13 09:26	15092-94-1	
Lead-214	EPA 901.1m	188.830 ± 34.085 (21.450)	pCi/L	11/30/13 09:26	15067-28-4	
Potassium-40	EPA 901.1m	16.102 ± 67.685 (140.900)	pCi/L	11/30/13 09:26	13966-00-2	
Radium-226	EPA 901.1m	180.910 ± 135.860 (193.400)	pCi/L	11/30/13 09:26	13982-63-3	
Radium-228	EPA 901.1m	-1.515 ± 31.550 (44.230)	pCi/L	11/30/13 09:26	15262-20-1	
Thallium-208	EPA 901.1m	-0.294 ± 7.841 (10.270)	pCi/L	11/30/13 09:26	14913-50-9	
Thorium-232	EPA 901.1m	423.750 ± 3507.300 (6138.000)	pCi/L	11/30/13 09:26	7440-29-1	
Thorium-234	EPA 901.1m	1.122 ± 196.560 (348.200)	pCi/L	11/30/13 09:26	15065-10-8	
Uranium-235	EPA 901.1m	12.897 ± 40.224 (68.860)	pCi/L	11/30/13 09:26	15117-96-1	
Uranium-238	EPA 901.1m	63.211 ± 109.740 (188.100)	pCi/L	11/30/13 09:26		
Radium-226	EPA 903.1	2.57 ± 1.71 (0.774)	pCi/L	11/19/13 13:22	13982-63-3	
Radium-228	EPA 904.0	2.29 ± 2.48 (4.47)	pCi/L	11/20/13 16:23	15262-20-1	
Total Uranium	EPA 908.0	0.689 ± 0.672 (1.09)	pCi/L	11/16/13 11:34	7440-61-1	

Sample: R1308385-002 Lab ID: 30106949002 Collected: 11/06/13 12:30 Received: 11/08/13 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Actinium-228	EPA 901.1m	3.731 ± 23.437 (44.290)	pCi/L	11/27/13 14:53	14331-83-0	
Bismuth-212	EPA 901.1m	-38.698 ± 188.190 (163.900)	pCi/L	11/27/13 14:53	14913-49-6	
Bismuth-214	EPA 901.1m	450.210 ± 63.878 (27.690)	pCi/L	11/27/13 14:53	14733-03-0	
Cesium-134	EPA 901.1m	-2.014 ± 35.919 (60.040)	pCi/L	11/27/13 14:53	13967-70-9	
Cesium-137	EPA 901.1m	0.271 ± 6.598 (11.920)	pCi/L	11/27/13 14:53	10045-97-3	
Lead-212	EPA 901.1m	57.948 ± 18.576 (27.500)	pCi/L	11/27/13 14:53	15092-94-1	
Lead-214	EPA 901.1m	432.490 ± 59.577 (25.030)	pCi/L	11/27/13 14:53	15067-28-4	
Potassium-40	EPA 901.1m	59.864 ± 86.218 (159.300)	pCi/L	11/27/13 14:53	13966-00-2	
Radium-226	EPA 901.1m	61.980 ± 161.570 (284.900)	pCi/L	11/27/13 14:53	13982-63-3	
Radium-228	EPA 901.1m	3.731 ± 23.437 (44.290)	pCi/L	11/27/13 14:53	15262-20-1	
Thallium-208	EPA 901.1m	1.912 ± 6.620 (11.870)	pCi/L	11/27/13 14:53	14913-50-9	
Thorium-232	EPA 901.1m	-1637.200 ± 92402.000 (7921.000)	pCi/L	11/27/13 14:53	7440-29-1	
Thorium-234	EPA 901.1m	-68.843 ± 1176.300 (439.000)	pCi/L	11/27/13 14:53	15065-10-8	
Uranium-235	EPA 901.1m	-22.747 ± 79.996 (86.530)	pCi/L	11/27/13 14:53	15117-96-1	
Uranium-238	EPA 901.1m	38.315 ± 135.950 (233.300)	pCi/L	11/27/13 14:53		
Radium-226	EPA 903.1	1.28 ± 1.47 (0.870)	pCi/L	11/19/13 13:37	13982-63-3	
Radium-228	EPA 904.0	1.72 ± 1.30 (2.26)	pCi/L	11/20/13 14:35	15262-20-1	
Total Uranium	EPA 908.0	0.866 ± 0.531 (0.773)	pCi/L	11/16/13 11:34	7440-61-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.

ANALYTICAL RESULTS

Project: R1308385
Pace Project No.: 30106949

Sample: R1308385-003 Lab ID: 30106949003 Collected: 11/06/13 11:40 Received: 11/08/13 09:55 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Dissolved fraction

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Actinium-228	EPA 901.1m	-5.263 ± 52.415 (43.250)	pCi/L	12/02/13 10:36	14331-83-0	
Bismuth-212	EPA 901.1m	31.422 ± 63.942 (113.600)	pCi/L	12/02/13 10:36	14913-49-6	
Bismuth-214	EPA 901.1m	50.799 ± 14.979 (15.300)	pCi/L	12/02/13 10:36	14733-03-0	
Cesium-134	EPA 901.1m	0.000 ± 13.128 (22.550)	pCi/L	12/02/13 10:36	13967-70-9	
Cesium-137	EPA 901.1m	-0.105 ± 7.143 (9.560)	pCi/L	12/02/13 10:36	10045-97-3	
Lead-212	EPA 901.1m	2.371 ± 8.658 (15.870)	pCi/L	12/02/13 10:36	15092-94-1	
Lead-214	EPA 901.1m	49.889 ± 15.466 (20.400)	pCi/L	12/02/13 10:36	15067-28-4	
Potassium-40	EPA 901.1m	45.325 ± 76.125 (146.000)	pCi/L	12/02/13 10:36	13966-00-2	
Radium-226	EPA 901.1m	40.459 ± 108.470 (201.600)	pCi/L	12/02/13 10:36	13982-63-3	
Radium-228	EPA 901.1m	-5.263 ± 52.415 (43.250)	pCi/L	12/02/13 10:36	15262-20-1	
Thallium-208	EPA 901.1m	-2.025 ± 20.895 (10.700)	pCi/L	12/02/13 10:36	14913-50-9	
Thorium-232	EPA 901.1m	267.070 ± 2983.200 (5328.000)	pCi/L	12/02/13 10:36	7440-29-1	
Thorium-234	EPA 901.1m	-14.922 ± 218.470 (308.700)	pCi/L	12/02/13 10:36	15065-10-8	
Uranium-235	EPA 901.1m	21.278 ± 35.176 (59.570)	pCi/L	12/02/13 10:36	15117-96-1	
Uranium-238	EPA 901.1m	98.808 ± 96.080 (160.100)	pCi/L	12/02/13 10:36		
Radium-226, Dissolved	EPA 903.1	0.771 ± 0.945 (1.32)	pCi/L	11/15/13 13:38	13982-63-3	
Radium-228, Dissolved	EPA 904.0	1.92 ± 0.795 (1.21)	pCi/L	11/15/13 15:18	15262-20-1	
Total Uranium	EPA 908.0	1.17 ± 0.597 (0.800)	pCi/L	11/16/13 11:34	7440-61-1	

Sample: R1308385-004 Lab ID: 30106949004 Collected: 11/06/13 12:30 Received: 11/08/13 09:55 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Dissolved fraction

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Actinium-228	EPA 901.1m	-6.774 ± 88.042 (50.240)	pCi/L	12/02/13 11:38	14331-83-0	
Bismuth-212	EPA 901.1m	-7.919 ± 316.740 (163.800)	pCi/L	12/02/13 11:38	14913-49-6	
Bismuth-214	EPA 901.1m	537.350 ± 70.694 (19.970)	pCi/L	12/02/13 11:38	14733-03-0	
Cesium-134	EPA 901.1m	1.349 ± 41.714 (69.610)	pCi/L	12/02/13 11:38	13967-70-9	
Cesium-137	EPA 901.1m	-2.554 ± 13.479 (14.740)	pCi/L	12/02/13 11:38	10045-97-3	
Lead-212	EPA 901.1m	75.475 ± 22.154 (23.090)	pCi/L	12/02/13 11:38	15092-94-1	
Lead-214	EPA 901.1m	563.230 ± 72.309 (24.690)	pCi/L	12/02/13 11:38	15067-28-4	
Potassium-40	EPA 901.1m	299.730 ± 96.482 (106.700)	pCi/L	12/02/13 11:38	13966-00-2	
Radium-226	EPA 901.1m	1.854 ± 186.260 (328.000)	pCi/L	12/02/13 11:38	13982-63-3	
Radium-228	EPA 901.1m	-6.774 ± 88.042 (50.240)	pCi/L	12/02/13 11:38	15262-20-1	
Thallium-208	EPA 901.1m	-1.581 ± 16.329 (11.650)	pCi/L	12/02/13 11:38	14913-50-9	
Thorium-232	EPA 901.1m	511.900 ± 4679.000 (8051.000)	pCi/L	12/02/13 11:38	7440-29-1	
Thorium-234	EPA 901.1m	-16.941 ± 355.100 (463.600)	pCi/L	12/02/13 11:38	15065-10-8	
Uranium-235	EPA 901.1m	-24.889 ± 93.288 (88.560)	pCi/L	12/02/13 11:38	15117-96-1	
Uranium-238	EPA 901.1m	-41.734 ± 2030.000 (259.700)	pCi/L	12/02/13 11:38		
Radium-226, Dissolved	EPA 903.1	1.24 ± 0.999 (1.24)	pCi/L	11/15/13 12:57	13982-63-3	
Radium-228, Dissolved	EPA 904.0	2.71 ± 1.02 (1.50)	pCi/L	11/15/13 16:32	15262-20-1	
Total Uranium	EPA 908.0	0.693 ± 0.216 (0.205)	pCi/L	11/16/13 11:34	7440-61-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: R1308385
Pace Project No.: 30106949

QC Batch: RADC/17708 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226, Dissolved
Associated Lab Samples: 30106949003, 30106949004

METHOD BLANK: 655931 Matrix: Water
Associated Lab Samples: 30106949003, 30106949004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226, Dissolved	-0.087 ± 0.395 (0.932)	pCi/L	11/15/13 12:46	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..





QUALITY CONTROL DATA

Project: R1308385
Pace Project No.: 30106949

QC Batch: RADC/17709 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30106949001, 30106949002

METHOD BLANK: 655932 Matrix: Water
Associated Lab Samples: 30106949001, 30106949002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.045 ± 0.233 (0.539)	pCi/L	11/19/13 13:22	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: R1308385
 Pace Project No.: 30106949

QC Batch: RADC/17776 Analysis Method: EPA 901.1m
 QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
 Associated Lab Samples: 30106949001, 30106949002, 30106949003, 30106949004

METHOD BLANK: 657652 Matrix: Water
 Associated Lab Samples: 30106949001, 30106949002, 30106949003, 30106949004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Actinium-228	-0.012 ± 16.104 (33.830)	pCi/L	11/14/13 15:02	
Bismuth-212	-8.981 ± 2089.800 (130.500)	pCi/L	11/14/13 15:02	
Bismuth-214	54.548 ± 18.556 (19.710)	pCi/L	11/14/13 15:02	
Cesium-134	-2.729 ± 7.989 (11.090)	pCi/L	11/14/13 15:02	
Cesium-137	-2.459 ± 6.529 (11.330)	pCi/L	11/14/13 15:02	
Lead-212	0.240 ± 7.314 (14.130)	pCi/L	11/14/13 15:02	
Lead-214	26.162 ± 12.572 (19.430)	pCi/L	11/14/13 15:02	
Potassium-40	-16.271 ± 84.402 (120.300)	pCi/L	11/14/13 15:02	
Radium-226	-30.461 ± 150.260 (182.200)	pCi/L	11/14/13 15:02	
Radium-228	-0.012 ± 16.104 (33.830)	pCi/L	11/14/13 15:02	
Thallium-208	-3.649 ± 48.852 (9.367)	pCi/L	11/14/13 15:02	
Thorium-232	-1288.400 ± 51536.000 (4917.000)	pCi/L	11/14/13 15:02	
Thorium-234	-27.481 ± 233.900 (239.500)	pCi/L	11/14/13 15:02	
Uranium-235	0.788 ± 26.430 (49.130)	pCi/L	11/14/13 15:02	
Uranium-238	14.907 ± 76.930 (141.100)	pCi/L	11/14/13 15:02	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: R1308385
Pace Project No.: 30106949

QC Batch: RADC/17710 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228, Dissolved
Associated Lab Samples: 30106949003, 30106949004

METHOD BLANK: 655933 Matrix: Water
Associated Lab Samples: 30106949003, 30106949004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228, Dissolved	0.0800 ± 0.271 (0.580)	pCi/L	11/15/13 15:34	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: R1308385
Pace Project No.: 30106949

QC Batch: RADC/17713 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30106949001, 30106949002

METHOD BLANK: 655936 Matrix: Water
Associated Lab Samples: 30106949001, 30106949002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.253 ± 0.319 (0.676)	pCi/L	11/20/13 12:31	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: R1308385
Pace Project No.: 30106949

QC Batch: RADC/17757 Analysis Method: EPA 908.0
QC Batch Method: EPA 908.0 Analysis Description: 908.0 Total Uranium
Associated Lab Samples: 30106949001, 30106949002, 30106949003, 30106949004

METHOD BLANK: 657449 Matrix: Water
Associated Lab Samples: 30106949001, 30106949002, 30106949003, 30106949004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Total Uranium	0.222 ± 0.219 (0.355)	pCi/L	11/15/13 17:35	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALIFIERS

Project: R1308385
Pace Project No.: 30106949

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ALS Environmental Chain of Custody

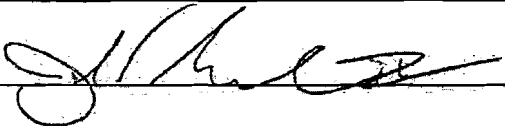
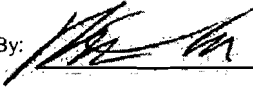
1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Janice Jaeger

Project Number: R1308385
Project Manager: Janice Jaeger

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	Radium 226 903.1	Radium 228 904.0	Gamma Spec by 901.1	Uranium by 908.0
				Date	Time					
R1308385-001	CELL5-1113		Water	11/6/13	1140	Pace PA	X	X	X	X 001
R1308385-002	CELL6-1113		Water	11/6/13	1230	Pace PA	X	X	X	X 002
R1308385-003	CELL5-1113 Dissolved		Water	11/6/13	1140	Pace PA	X	X	X	X 83
R1308385-004	CELL6-1113 Dissolved		Water	11/6/13	1230	Pace PA	X	X	X	X 84

Special Instructions/Comments Dissolved samples need in lab filter excel EDD H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements <input type="checkbox"/> RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: <u>11/21/13</u>	Report Requirements <input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data PQL/MDL/J <u>N</u> EDD <u>Y</u>	Invoice Information PO# R1308385 Bill to
--	--	---	--

Relinquished By:  Received By:  11-8-13 0955 Airbill Number: _____

Page 20 of 22



Sample Condition Upon Receipt

RAC

Client Name: ALS

Project # 30106449

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 55308488 3145

Optional:
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 5 7 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temperature 2.6, 2.1 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 8°C

Date and Initials of person examining contents: RAC 11-8-13

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11 <u>RAC 11-8-13</u>
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Includes date/time/ID/Analysis: Matrix	<u>WT</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Cell 6-11B and Cell 5-11B 3 ML H₂O</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added to each bottle 1120 11-8-13</u> <u>(samples 001 & 002)</u>
exceptions: VOA, coliform, TOC, O&G, WL-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>RAC</u> Lot # of added preservative <u>DL13-1051</u>
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carroll Dennis

Date: 11/8/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Project Number: AS 20120419
 Client Name: _____

001	MT	Item No.
002	↓	Matrix Code
003	↑	Glass Jar (120 / 250 / 500 / 1L)
004	↑	Soil kit (2 SB, 1M, soil jar)
		Chemistry (250 / 500 / 1L)
		Organics (1L)
		Nutrient (250 / 500)
		Phenolics (250 ml)
		TOC (40 ml / 250 ml)
		TOX (250 ml)
		Total Metals
		Dissolved Metals preserved Y N
		O & G (1L)
		TPH (1L)
		VOA (40 ml 30 ml)
		Cyanide (250 ml)
		Sulfide (500 ml)
		Bacteria (120 ml)
		Wipes / swipe/ smear/ filter
		Radchem Nalgene (125 / 250 / 500 / 1L)
		Radchem Nalgene (1/2 gal. / 1 gal.L)
		Cubitainer (500 ml / 4L)
		Ziploc
		Other
		Other

