

WESTON SOLUTIONS, INC.

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The Trusted Integrator for Sustainable Solutions

December 13, 2016

Mr. Andrew Fessler, Work Assignment Manager U.S. Environmental Protection Agency 290 Broadway - 18th Floor New York, NY 10007-1866

Document Control No.: W0428.1A.01189

Subject: Sampling Trip Report

TDD No.: 0004/1611-05, Canadian Radium & Uranium Corp.

Contract No.: EP-S8-13-01 (Region 8 START IV)

Dear Mr. Fessler:

Weston Solutions, Inc. (WESTON®) is pleased to submit the Sampling Trip Report for aqueous samples associated with the Canadian Radium & Uranium Corp. Site Reassessment in Mount Kisco, New York. The Region 2 Site Assessment Team collected water supply well samples from wells located within or just beyond an approximate 1-mile radius of the site on December 6, 2016. If you have any questions, please contact me at (732) 417-5814.

Very truly yours,

WESTON SOLUTIONS, INC.

Denise Breen

Associate Project Scientist

enclosure

cc: C. Romano, EPA (w/o enclosure)

G. Gilliland, WESTON

Site file

DCN: W0428.1A.01189

SAMPLING TRIP REPORT

SITE NAME: Canadian Radium & Uranium Corp.

> DCN: W0428.1A.01189 W.O.: 20408.012.004.0428.00

EPA ID NO.: NYD987001468

SAMPLING DATE: December 6, 2016

1. Site Location: Refer to Figure 1

2. Refer to Figures 2A, 2B, and 2C Sample Locations:

3. Sample Descriptions: Refer to Table 1

4. Laboratory Receiving Samples:

Analyses	Name and Address of Laboratory
Gamma-Emitting Radioisotopes, Gross	National Analytical Radiation Environmental
Alpha and Beta, Radium-226, Isotopic	Laboratory (NAREL)
Uranium, and Isotopic Thorium	540 South Morris Avenue
	Montgomery, AL 36115

5. Sample Dispatch Data:

• Seven aqueous samples for low concentration Gamma-Emitting Radioisotopes, Gross Alpha and Beta, Radium-226, Isotopic Uranium, and Isotopic Thorium analyses were shipped to the NAREL laboratory on 12/6/16 at 17:00 hours via Federal Express (FedEx) Air Waybill No. 8106-1596-1443.

6. On-Site Personnel:

Name Denise Breen	Company Weston Solutions, Inc. (WESTON®)	Duties on Site Field Lead, Site Health and Safety Coordinator, Sample Management Officer
Caroline Tuero	WESTON	Sampler, GPS Data Collector, Sample Management Officer
Andrew Fessler	U.S. Environmental Protection Agency (EPA)	EPA Oversight

DCN: W0428.1A.01189

7. Additional Comments:

On December 6, 2016, WESTON personnel collected aqueous samples from water supply wells located within or just beyond an approximate 1-mile radius of the Canadian Radium & Uranium Corp. site. WESTON collected a total of seven water supply well samples (including one environmental field duplicate) in support of the Canadian Radium & Uranium Corp. site reassessment, assigned under EPA Contract EP-S8-13-01 [Region 8 Superfund Technical Assessment and Response Team IV (START IV)].

The wells were purged for at least 15 minutes before sampling. Two wells that had water holding tanks associated with the wells (i.e., sample locations 0428-WSW05 and 0428-WSW07) were purged for at least 30 minutes before sampling. Additionally, water quality readings were monitored using a YSI 650 MDS water quality meter to confirm stabilized well conditions. At each water supply well, WESTON collected raw groundwater samples (i.e., prior to water treatment) from sampling spigots as close as possible to the wellhead. WESTON collected samples directly into the sample containers. Due to the limited access of the sampling spigot at sample location 0428-WSW05, Mr. Rich Kane, the environmental consultant for the well operations at the location, assisted WESTON in collecting the sample. One sample was collected with additional volume for laboratory Quality Assurance/Quality Control (QA/QC) purposes.

WESTON logged sample locations electronically using GPS equipment and performed post-processing differential correction of the GPS data in accordance with EPA Region 2 GPS standard operating procedures (SOPs). The processed GPS data for all samples have been transferred to the Sample Location Map (Figure 2) using a Geographic Information System.

All samples were collected from locations associated with the Canadian Radium & Uranium Corp. site (Task 0428) under the Region 8 START IV contract. All samples were submitted to the NAREL laboratory for analyses of Gamma-Emitting Radioisotopes, Gross Alpha and Beta, Radium-226, Isotopic Uranium, and Isotopic Thorium. The samples were shipped to the lab via FedEx. The Chain of Custody Record and associated Air Waybill are presented in Attachment 1. The field logbook notes, water quality logs, and photograph log are presented in Attachments 2, 3, and 4, respectively.

8.	Report Prepared by:	Denise Breen	Date:	12/13/2016
9.	Report Approved by:	Gendel Gelles Gerald V. Gilliland, P.G.	Date:	12/13/2016

Table 1 Sample Descriptions Canadian Radium & Uranium Corp. Mount Kisco, New York

SAMPLE NUMBER	DATE	TIME	COMMENTS
0428-WSW01	12/6/16	09:35	Aqueous sample collected from the Ramleh Water Works Corp. Inc. public water supply system (PWSID NY5922912) Well 1, one of two active water supply wells that serve the Deer Ridge residential community at this location.
0428-WSW02	12/6/16	10:00	Aqueous sample collected from the Ramleh Water Works Corp. Inc. public water supply system (PWSID NY5922912) Well 2, one of two active water supply wells that serve the Deer Ridge residential community at this location.
0428-WSW03	12/6/16	08:45	Aqueous sample collected from the 796 Bedford Road Apartments public water supply system (PWSID NY5930069) Well 1, one of two active water supply wells that serve the residential community at this location.
0428-WSW04	12/6/16	08:15	Aqueous sample collected from the 796 Bedford Road Apartments public water supply system (PWSID NY5930069) Well 2, one of two active water supply wells that serve the residential community at this location.
0428-WSW05	12/6/16	11:11	Aqueous sample collected from the Northern Westch Prof. Pk.101 public water supply system (PWSID NY5922308) well, an active water supply well that serves the professional building at 101 South Bedford Road.
0428-WSW06	12/6/16	10:02	Duplicate of 0428-WSW02 for QA/QC purposes.
0428-WSW07 (Lab QC)	12/6/16	13:18	Aqueous sample collected from the Northern Westchester 103-105 public water supply system (PWSID NY5930006) well, an active water supply well that serves the professional buildings at 103 and 105 South Bedford Road. Double volume for laboratory quality control (QC) purposes.

FIGURE 1 SAMPLE LOCATION MAP

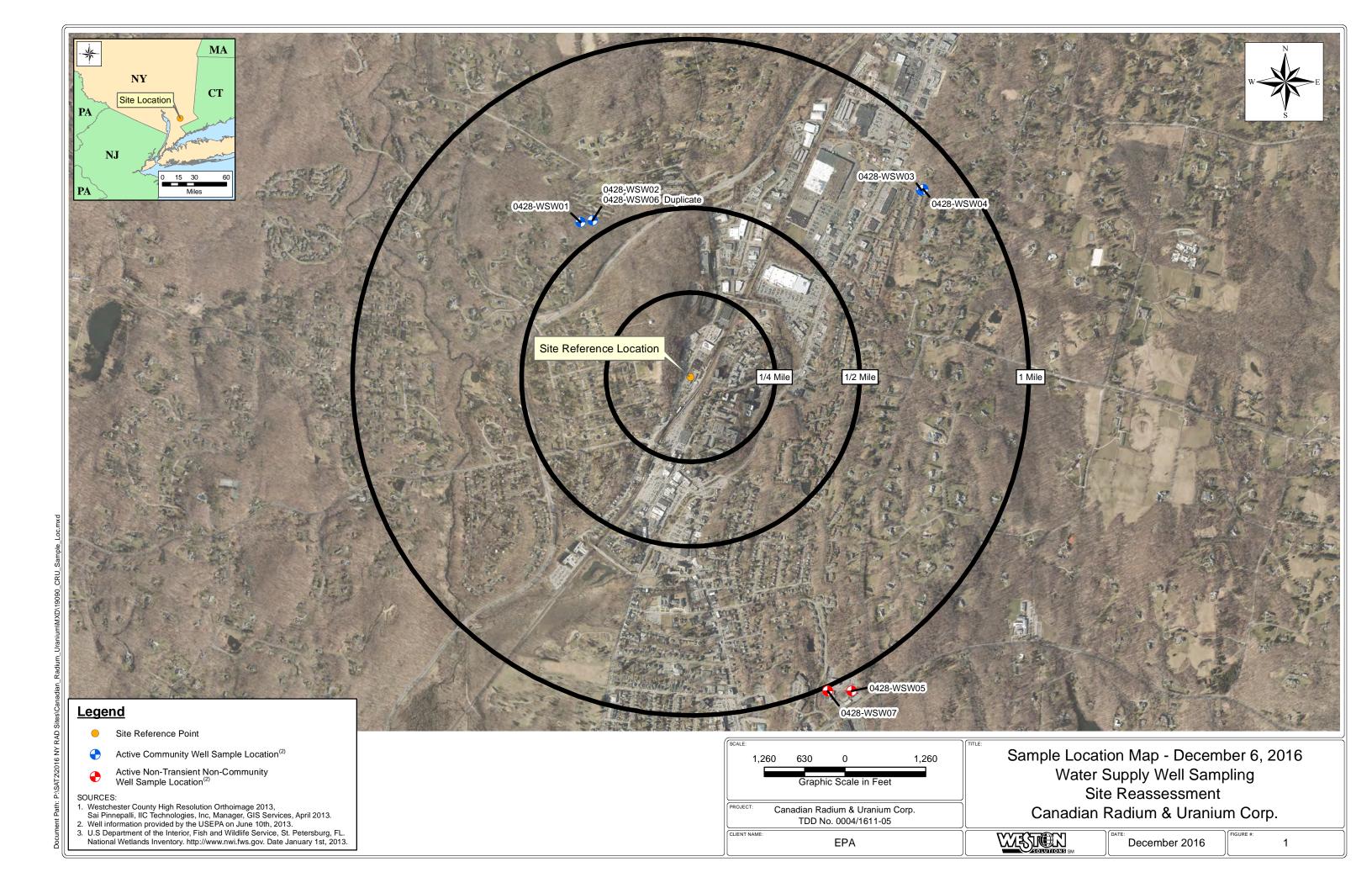


FIGURE 2A SAMPLE LOCATION MAP



December 2016

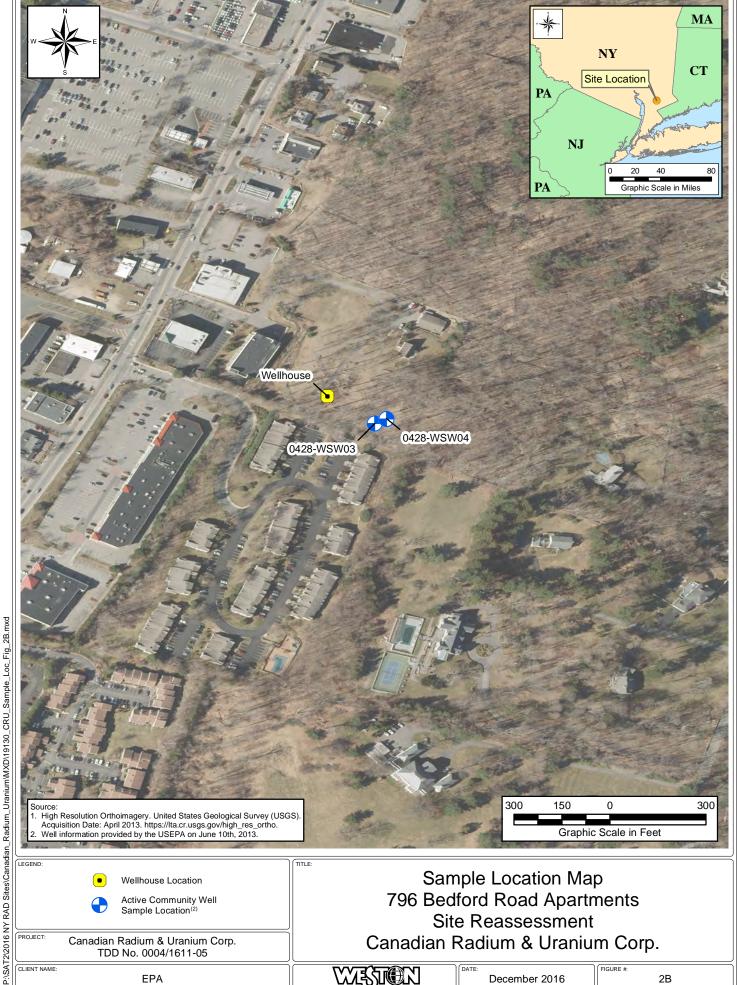
2A

P:\SAT2\2016 NY RAD Sites\Canadian_Radium_Uranium\MXD\19129_CRU_Sample_Loc_Fig_2A.mxd

CLIENT NAME:

EPA

FIGURE 2B SAMPLE LOCATION MAP



December 2016

2B

EPA

FIGURE 2C SAMPLE LOCATION MAP



P:\SAT2\2016 NY RAD Sites\Canadian_Radium_Uranium\MXD\19131_CRU_Sample_Loc_Fig_2C.mxd

PROJECT: Canadian Radium & Uranium Corp.
TDD No. 0004/1611-05

CLIENT NAME:

Active Non-Transient Non-Community

EPA

Well Sample Location(2)

Sample Location Map
Northern Westch Professional Park
Site Reassessment
Canadian Radium & Uranium Corp.

December 2016

FIGURE #:

2C

ATTACHMENT 1 CHAIN OF CUSTODY RECORD AND AIR WAYBILL

Page 1 of 1

USEPA

DateShipped: 12/6/2016 CarrierName: FedEx AirbillNo: 8106 1596 1443

CHAIN OF CUSTODY RECORD

Site #: 0428

Contact Name: Caroline Tuero Contact Phone. (732) 417-5869 No: 2-120616-155527-0001

Cooler #: 1 of 1 Lab. NAREL

Lab Phone: (334) 270-3433

ab#	Sample #	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	0428-WSW01	Gamma Spec, Gross A/B, Ra- 226, Iso-U, Iso-Th	Ground Water	12/6/2016	09:35	1	4 L cubitainer	HNO3 pH<2	N
	0428-WSW02	Gamma Spec, Gross A/B, Ra- 226, Iso-U, Iso-Th	Ground Water	12/6/2016	10:00	1	4 L cubitainer	HNO3 pH<2	N
	0428-WSW03	Gamma Spec, Gross A/B, Ra- 226. Iso-U, Iso-Th	Ground Water	12/6/2016	08:45	1	4 L cubitainer	HNO3 pH<2	N
	0428-WSW04	Gamma Spec, Gross A/B, Ra- 226, Iso-U, Iso-Th	Ground Water	12/6/2016	08:15	1	4 L cubitainer	HNO3 pH<2	N
	0428-WSW05	Gamma Spec, Gross A/B, Ra- 226, Iso-U, Iso-Th	Ground Water	12/6/2016	11:11	1	4 L cubitainer	HNO3 pH<2	N
	0428-WSW06	Gamma Spec, Gross A.B, Ra- 226, Iso-U, Iso-Th	Ground Water	12/6/2016	10:02	1	4 L cubitainer	HNO3 pH<2	N
	0428-WSW07	Gamma Spec, Gross A/B, Ra- 226, Iso-U, Iso-Th	Ground Water	12/6/2016	13:18	2	4 L cubitainer	HNO3 pH<2	Y

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date:Time	Sample Condition Upon Receipt
Sampling	Duril Breen FOR caroline Trexo	17:00/	FEDEX	1700/	
	(WESTON) Region?				
	0.00				

		THE RESERVE THE PARTY OF THE PA
	Package US Airbill Foots 4106 1596 1443	Sender's Copy
1	From Please print and press hard. Date 12/6/16 Sender's FedEx Account Number 3 6 7 2 - 5 8 8 3 - 7	4 Express Package Service • To ment bootions. Packages gap to 150 files. For packages over 180 files, use the Fredix Express Freight US Abbill. Next Business Day: 2 or 3 Business Day:
	Sender's Caroline Tucro Phone (732) 417 5869	FedEx First Overnight Earliest nect business intoming delivery to select business. Frider signments with believened an Monthlay makes Sounder Delivery is selected.
	COMPANY WESTON SOLUTIONS, INC	FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Montely unless Saturday Delivery is selected. FedEx 20 ay F
	Address 205 CAMPUS DR. Dept. Poor/Sum/Hoom	FedEx Standard Overnight Next business altermont* Seauratory Delivery NOT evaluation. FedEx Express Saver Third business day.* Seauratory Delivery NOT evaluation.
2	City EDISON State NJ ZIP 08837 Your Internal Billing Reference	5 Packaging *Declared value family \$500. FedEx Envelope* FedEx Pak* FedEx Box Tube Cother
3	First 24 characters will appear on motics.	6 Special Handling and Delivery Signature Options Foos day apply. See the FedEx Service Golds. Saturday Delivery NOT probable for FedEx Standard Overright, FedEx 20oy A.M., or FedEx Express Servec.
	company National Analytical Radiation Environmental Laboratory (NAREL) Hold Weekday Fight beans address PROBLEMBER	No Signature Required Package may be let without Someone at recipient's address may sign for delivery. Does this shipment contain dangerous goods? Does this shipment contain dangerous goods?
	Address We cannot deliver to P.D. houses or P.D. ZIP codes. Address 540 South Monts Ave Dept. Floor/Sulminfloors Fields First Divergits. Hold Saturday Fields Instituted or Ave Fields First Divergits. Fields First	No Yes Shippor's Declaration on regarded Shippor's Declaration on regarded. Restrictions apply for dengarous goods — see the current FedEx Service Bidds. Dry Ice Dr
	City Montgomery State AL ZIP 36115	7 Payment Bill to: Sender Enter FedEx Acct. No. or Credit Card No. below. Acct. No. or Section Recipient Third Party Credit Card Cast/Check FedExcc. No. Credit Card Control Cast/Check FedExcc. No. Credit Card No. below.
		Total Packages Total Weight Total Declared Value ¹
	Ship it. Track it. Pay for it. All online. Go to fedex.com.	Due fiability is limited to USSY00 sinless you declam is higher value. See bect for decade. By using this sinled you agree to the service conditions on the bect of the service best for decade. By using this sinled you agree to the service conditions on the bect of the service find our beboller. Fig. 10a 317 - Fig. 19202 - C2812-2015 FeeEz = PRINTED IN U.S.A. INDIA CO/00

ATTACHMENT 2 FIELD LOGBOOK NOTES

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Canadian Radium ? Uranium Corp.



WO#: 20408.012.004.0428.00

DCN: W0428.3B.01182



Name C	anadian Radium 3
_ura	hium corp.
Address	205 campus Dr.
	205 campus Dr. Edison NU 08837
Phone	732-417-5800
Project	



CONTENTS

PAGE	REFERENCE	DATE
2-9	December Water Supply Well Sampling Event LATE NOTE Well info	12/6/16
	well sampling Everit'	
10	LATE NOTE WITING	12/8/16

Personnel Denise Breen (OB) WESTON Carpline Tuero (cr) WESTON - 602 Weather: Partly cloudy - cold - temps from 250 - 40 F. - GD

Scope of work: Collect ground water samples from active water supply Wells for analysis by NAREL lab for the following analysis gamma Spectrometry Am 150 P3, Rev. 6, aross Alpha and Bela AM/50P-4 Revo, Radium-226 AM/SOP-14 Rev 2, 160topic Vianium AMISOP-1 Rev 8, and "Isotopic Thorium AmisoP-1 Rev 8. Each sample will be collected directly into the sample container from the spigot after ampte purge and water quality monitoring samples will be preserved in the field with HNO3 to pH < 2. One environmental Aeld duplicate will be collected One extra volume of a sample, will be collected and submitted to the lab as a lab QC sample.

H total of six samples will be collected from five 'active wells. 0730 Arrive at Bidford Rd. Apartments. Meet will Dale Post in pairting lot. He will bring us to both well locations. 6740 Start Duge on well # 2. Prote #1

canadian Radium & uranium

of well House attend of private road for Bedford Apartments. Photo #2 of Noth Wells located in well house for Bedford partments.

0745 DB confirms with Dale that both sampling spigots are raw water from well. CT Starts up pre-calibrated YS1 650 MDS Seriel # 0692302F WITH YSI probe model # 600xc Bon SN. BILDE29.

0750 DB Take proto of Well 1 (War 03) and well 2 (wswo4) locations CT collects GPS point of i) well house 2) well I (wsw 03) and 3) well I (wsw 04).

Frem 12/6/16 in the Range

capadian Radium's uranium

12/6/16

OPS CT Starts water quality
monitoring
OPS CT collects (0428-WSWO) (Ramlen Water Works / Deer Ridge Rd) Well #1. Purge begins at 0935 for well # Z. DB takes photos of is both well spigots and 2) well house. (as) 0950 CT starts water quality montoring 1000 CT Collects [0428-WSWOZ] From 10000 well #2 at Ramkin Water WORKS / Deer Ridge Rd. Well.) 1002 CI collects field duplicate
[0428-MSW06] from well #Z 1005 Doneat Ramleh - move to Northwesting Northern Westchester Professional Park. 1015 Arnve at Professional Park and meet with Rich Kane. ,030 Start purge for 30 minutes Rich Kane will assist with sample collection due to sampling spigot being located under Dennie Breen 129th Mithe

canadian Kadium & Uranium

12/6/16

grs point of well location and the pump location (sampling spiciot). Holding tank is likely 500 gallons 1100 CT Starts water quality readings. OB calls Alled Pollution Control to atkmpt to collect sample from other well at Northern Westchester Profesional Park. Photo of the water quality monitoring and of well location. 1111 Rich Kane agists with cample collection for 10428- WSW 05 from well spigot at Professional Park Building 101. 1115 John Muro from Allied Calls back and States that we can collect sample from other well in the professional park (Building 103) which service buildings 103 and 105. He will low Ailled representative will be at location at 1230. —

1305 CT Starts water quality readings at WSW07. This will be a lab QC. RON Shows DB the Well location. Photo of well location 1318 CT collects 0428-WSW07 * ac for lab volume collected. Photo of sample collection. 1325 Collect OPS point at well location 1345 WESTON and EPA offsite. mobilize back to office to conduct sample management. +500 60 One cooler under airbill# 1700 8106 1596 1443 with the COC# 2-120616-155527-00001

Canadian Radium Ruranium 12/6/16

ATTACHMENT 3 WATER QUALITY LOGS

	GRO	UNDWA	ATER SAM	IPLING L	LOG (Lov	v-Flow)			
Client: US EPA Site Location: Mount KIS Field Team Leader: Denise	ico, NY Breen	ŧ		Weston's I	Project No.:	20408	Radium a 1012,004 illiland	1 11170	
Monitoring Well: 0426-	<u>-wswo4</u>	f						<u> </u>	rage i oi i
 (1) Depth to Water (feet): (2) Depth to Product (feet): (3) Total Well Depth (feet): (4) Casing Diameter (inches): (5) Water Column Volume (gallons): (5) = [(3) - (1)] * C (values of C: 0.1) 			ther Conditions:		Ab Carpline Cloudy,			-	
Purging Information	o gont or a man	Ond b.os ga	Purge Method (circle method)	i	Misc. Info:				
Start Time: End Time: Purge Rate (gpm / lpm): Total Volume Removed (gallons):	0740 0801 NA NA		Centrifugal pum Submersible Pun Bailer		Pump Intake Screened Int Well Permit I Stick-up/Flus	erval (ft): D:	mk	hour	- - -
Time	0802	0805	0808	0811					
Volume (gallons/liters)	ļ	<u> </u>	ļ <u>.</u>					<u> </u>	
Depth to Water (DTW)				 				 	
Rate	1 17	171		/ 74				-	
pH	6.67	6.71	6.72	6.70				 	-
Temperature (deg. C)	11.96	11.73	11.82	11.68				 	-
Conductivity (mS/cm)	0.396	0.388	0.387	0.383					
DO (mg/L)	2,29	2.88	2.19	2.91				-	-
Turbidity (NTU)				 					
ORP			ļ					ļ	
Odor/Film Other:			ļ					ļ	
If Low Flow Sampling - Volume of Flow Sampling Information Sample ID: WSW CV Sample Time: 0 8 1 5	128-W	swo	1 nent: 4 4	rubta	ine r		Stabilization	n Order/Ran	ge
					1		1	ssive reading	100000
Analyte Group VOCs (13)			Preservation				DTW = < 0.3 Rate = <500 pH = +/- 0.1 Temp. = +/- SC = +/- 3% DO = +/- 109	0 ml/min 3 3% , , , , , , , , , , , , , , , , ,	
Metals Filtered? Y N N/A Sample Rate (ml/minute):			mples? Y 🕡	If yes, Type Samp	e: ole Time:	_			935
Comments/Observations:					735				
Signatures: Field Team Leader: Teluse Reviewer: Reviewer Title:	Buen	,	Date:				Weston So 205 Campu Edison, NJ	s Drive	

	GRO	UNDWA	ATER SAM	IPLING	LOG (Lo	v-Flow)		16 -03 4	
Client: US EM Site Location: Mount Kisco Field Team Leader: Denise	, NY Breen			Weston's	Project No.	7.1100	idium and 012,004 illiland	.0428.	n (crp, 00 Page <u>1</u> of _
Monitoring Well: 0428-	WSWD	3			· .				rage <u>·</u> cr_
(1) Depth to Water (feet): (2) Depth to Product (feet): (3) Total Well Depth (feet): (4) Casing Diameter (inches): (5) Water Column Volume (gallons): (5) = [(3) - (1)] * C	NA	Wea	ther Conditions:	cold,	/16 Card (avd			- -	
Start Time: End Time: Purge Rate (gpm / lpm); Total Volume Removed (gallons):	0818 0832 NA NA		(circle method) Centrifugal pum Submersible Pur Bailer		Pump Intake Screened In Well Permit Stick-up/Flu	terval (ft): ID:	mk	now	2 - -
Time	0833	0836	0839	1842					
Volume (gallons/liters)									
Depth to Water (DTW)									
Rate									
На	7.02	7.11	7.17	7.70					
Temperature (deg. C)	0.374		11.55	11.51					
Conductivity (mS/cm)	10.86	0.378	0.378	0.380					
DO (mg/L)	3.59	3.00	3.34	3.11					
Turbidity (NTU)	·								
ORP									
Odor/Film Other:									
If Low Flow Sampling - Volume of Flo Sampling Information Sample ID: 0428 - WSW03 Sample Time: 0845			nent: 44 (Cibtai	ner		Stabilization		
Analyte Group	Bottle Type	Number	Preservation	Method #	1		Three succes	-	
VOCs.							DTW = < 0.3 Rate = <500 pH = +/- 0.1 Temp. = +/- 3% DO = +/- 10% Turb = +/- 10 ORP/Eh = +/-	feet ml/min 3% 6 9%, for value:	
Metals Filtered? Y N Sample Rate (ml/minute):			nples? Y N	If yes, Typ Sam	e: ole Time:	_			
Signatures: Field Team Leader:	Breen		Date: 12/				Weston So. 205 Campu:	s Drive	
Reviewer Title:			Date:				Edison, NJ (08837	

	GRO	UNDWA	TER SAM	PLING I	OG (Low	-Flow)	***		
Client: US EPA Site Location: Mount Kisc Field Team Leader: Denise	Breen			Weston's I	Project No.:	20408	diom an 1.012.00 filliland	4.042	m Corp. 8:00 Page <u>1</u> of <u>1</u>
Monitoring Well: 0428	wsw	01			-				
(1) Depth to Water (feet): (2) Depth to Product (feet): (3) Total Well Depth (feet): (4) Casing Diameter (inches): (5) Water Column Volume (gallons):	NA	Weat	her Conditions:	cold,	Caruli Cloudy Misc. Info:				
Start Time: End Time: Purge Rate (gpm / lpm): Total Volume Removed (gallons):	0908		(circle method) Centrifugal purn ubmersible Pun Bailer		Pump Intake Screened Int Well Permit I Stick-up/Flus	erval (ft): D:	un Kv	1900	
Time	0925	0928	093/	0934					
Volume (gallons/liters)									
Depth to Water (DTW)									
Rate	- 20					<u>.</u>			
pH	7.28	7.27	7-16	7.08			-	1	
Temperature (deg. C)	9.60	10.46	10.70	10.84			-	-	
Conductivity (mS/cm)	0.461		0.542	6.02	DEG		+	+	_
DO (mg/L)	8.16	6.84	5.65	6.06	5.81				
Turbidity (NTU)	147.5	121 4	110.5	07 4			-	+	
Odor/Film	14 /, 5	16118	110.2	91.1				+	
Other:							+	1	
If Low Flow Sampling - Volume of Flow Sampling Information Sample ID: 0428 - WSW Sample Time: 09 35 Analyte Group VOCs	7 / Sampling Me	thod/Equipm	nent: 4 L Co				Stabilizatio Three succe (Readings take) DTW = < 0.	essive readi	ngs within:
Metals Filtered? Y N		CA/OC Sea	nples? Y N	If use Turn			Rate = <500 pH = +/- 0. Temp. = +/- SC = +/- 3% DO = +/- 10 Turb = +/- 1 ORP/Eh = +	1 3% 6 % 0%, for valu	nes >1 NTU
Sample Rate (ml/minute): Comments/Observations:	_		npies? Y N		e. ole Time:			-	
Signatures: Field Team Leader: Reviewer: Reviewer Title:	Breen		Date: 12 Date: Date:	(b 1b			Weston S 205 Camp Edison, NJ	us Drive	

	GRO	UNDWA	TER SAN	IPLING I	LOG (Lov	v-Flow)			
Client: US EPA Site Location: Month Kisco Field Team Leader: Denise	Breen			Weston's	Project No.:	20408	Radium 1012.001 Gillilano	4.042	anism (or 8.00 Page _ of
Monitoring Well: 0429	-wswo	2/	WSWO	6 CDUF	2				3.2
(1) Depth to Water (feet): (2) Depth to Product (feet): (3) Total Well Depth (feet): (4) Casing Diameter (inches): (5) Water Column Volume (gallons):	NA	. ,		12/6	116 Cambre			- -	
(5) = {(3) - (1)} ° C {values of C: 0.1	6 gal/ft for 2" wel	l and 0.66 gal/f							
Purging Information Start Time: End Time: Purge Rate (gpm / lpm): Total Volume Removed (gallons):	0935 0949 NA		Purge Method (circle method) Centrifugal pum ubmersible Pur Bailer	9	Pump Intake Screened In Well Permit Stick-up/Flus	terval (ft): ID:	Un	enown	 - -
Time	0950	0953	0956	1000					
Volume (gallons/liters)									
Depth to Water (DTW)									
Rate									
рН	6.86	6.97	6.96	6.95					
Temperature (deg. C)	10.27	10.3/	10,34						
Conductivity (mS/cm)	0.686	0.679							
DO (mg/L)	4.62	4.76	4.95	5.33					
Turbidity (NTU)									
ORP	85.0	95.1	103.3	114.4					
Odor/Film Other:									
If Low Flow Sampling - Volume of Fl Sampling Information Sample ID: 0428 - WSWO Sample Time: 1000	2/042	8 − ω sω thod/Equipm	106 (Due	rlicate)	er		Stabilizatio	n Order/Rar	ige
Analyte Group	Bottle Type	Number	Preservation	Mathad #	1		1	ssive readin	•
VOCs			T result value i	Wettied #			DTW = < 0.3 Rate = <500 pH = +/- 0.1 Temp. = +/- SC = +/- 3% DO = +/- 100) ml/min 3% - % O%, for value	
Metals Filtered? Y N Sample Rate (ml/minute):			nples? Y N	If yes, Typ Samp	e: ble Time:				
Comments/Observations: Collected deplications 10:		nple	0428.	- wsw	106 a	A th	is loca	when	7
Signatures: Field Team Leader: Reviewer: Reviewer Title:	Breen		Date:	16118			Weston So 205 Campu Edison, NJ	ıs Drive	

	GRO	UNDWA	ATER SAM	IPLING I	LOG (Lo	w-Flow)			
Client: VS EPA Site Location: Mount Kiso Field Team Leader: Denise	Bren			Weston's	Project No.	: 20408	Pudism as 5.012.00 illilund	4.042	
Monitoring Well:	0428-	- WSW	705						
(1) Depth to Water (feet): (2) Depth to Product (feet): (3) Total Well Depth (feet): (4) Carine Diemeter (feetees):	NA	-		12/				=	
(4) Casing Diameter (inches):(5) Water Column Volume (gallons):		_	ther Conditions:	<u>cold</u>	-Clang -	NO.	wind	_	
(5) = [(3) - (1)] * C (values of C: 0.1 Purging Information	8 gal/ft for 2" well	and 0.66 gal/f	ft for 4" well) Purge Method (circle method)	Ł	Misc. Info:				
Start Time: End Time: Purge Rate (gpm / lpm): Total Volume Removed (gallons):	10 30 10 59 NA NA		Centrifugal pum Submersible Pun Bailer		Pump Intake Screened In Well Permit Stick-up/Flu	iterval (ft): ID:	mtno	wn ————————————————————————————————————	
Time	1100	1103	1106	1109				Τ'	
Volume (gallons/liters)				/					
Depth to Water (DTW)				ļ					
Rate	(()	17-		1 70					
pH Townserton (do 0)	6.67	6.75	6.78	6.79					
Temperature (deg. C)				12.39				ļ	
Conductivity (mS/cm) DO (mg/L)	4.24	2.263		2,270					
Turbidity (NTU)	4127	5.22	5.40	4.04			-		
ORP	171.3	171.5	172.4	172.2		 	 	 	
Odor/Film	1111.3	111+2	172.7	11616			 	-	
Other:								- -	
If Low Flow Sampling - Volume of Flow Sampling Information Sample ID: 6428-65005 Sample Time: 1111			nent: 4 L	Cubtan	le v		Stabilizatio Three succe		
Analyte Group	Bottle Type	Number	Preservation	Method #			(Readings take		_
vocs							DTW = < 0.3 Rate = <500 pH = +/- 0.1 Temp. = +/- SC = +/- 3% DO = +/- 10° Turb = +/- 10° ORP/Eh = +,	3 feet ml/min 3% 	
Metals Filtered? Y N Sample Rate (ml/minute):			nples? Y N		e: le Time:				
Comments/Observations:									
Signatures: Field Team Leader: Reviewer: Reviewer Title:	Breen		Date:	6/16			Weston So 205 Campu Edison, NJ	s Drive	

	GRO	UNDWA	TER SAM	IPLING	LOG (Lov	v-Flow)			
	Bren			Weston's Project Ma	Project No.: anager: Ger	2000s	Padarm an sioizioo Ililand	d Uaniv Y, 0428	m (orp, 1.00 Page_lof_l
Monitoring Well:	0428 -	WSWO	7 (double	volume					
(1) Depth to Water (feet): (2) Depth to Product (feet): (3) Total Well Depth (feet): (4) Casing Diameter (Inches): (5) Water Column Volume (gatlons):	_NA	- - - Weat	Date: Samplers: her Conditions:		16/16 line To		nd	- -	
(5) = [(3) - (1)] * C (values of C: 0.1	6 gal/ft for 2" wel	l and 0.66 gal/l							
Purging Information Start Time: End Time: Purge Rate (gpm / lpm): Total Volume Removed (gallons):	1235 1304 NA	S	Purge Method (circle method) Centrifugal pum iubmersible Pur Bailer	ip q	Misc. Info: Pump Intake Screened Int Well Permit I Stick-up/Flus	terval (ft): D:	inkua	υn	- - -
Time	1305	130%	1311	1314	1317		7	T	T
Volume (gallons/liters)				,	100	-			
Depth to Water (DTW)									
Rate									
pH	7.20	6.85	6.77	6.70	6.66				
Temperature (deg. C)	13.95	14.10	14.11	14.21	14,12				
Conductivity (mS/cm)	0.813	0.791		0.791	0.790				
DO (mg/L)	7.22	6.19	6.23	5.56	6.01				
Turbidity (NTU)	_	-	_		-				
ORP	219.7	2253	228,3	231.3	234.5				
Odor/Film									
Other:									
If Low Flow Sampling - Volume of Financial Sampling Information Sample ID: 0428 - WSWO Sample Time: 1318	7		nent: 44 (Cub tain	er		Stabilization	n Order/Ran	ge
1-10-7-10-1			22.00		2		Three succe	ssive reading	gs within:
Analyte Group VOCs	Bottle Type	Number	Preservation	Method #			DTW = < 0.3 Rate = <500 pH \approx +/- 0.1 Temp, = +/- SC = +/- 3% DO = +/- 109	m!/min 3%	
Metals Filtered? Y N Sample Rate (ml/minute):		QA/QC San Sample ID:	nples? Y N	If yes, Typ	e: ble Time:		ORP/Eh = +/)%, for value /- 10 mV 	s >1 NIU
Comments/Observations: Collected dovk	ole vol	me,	design	ated	for la	b Q	C		
Signatures: Field Team Leader: Twill Reviewer: Reviewer Title:	<u>Breen</u>		Date:	6/16			Weston So 205 Campu Edison, NJ	s Drive	

ATTACHMENT 4 PHOTOLOG



	Photographs		
Contract No./WO Number	Site Name/Location	Date	Page
EP-S8-13-01	Canadian Radium & Uranium Corp.	42/5/2045	Dogg 4 of F
20408.012.004.0428.00	Mount Kisco, NY	12/6/2016	Page 1 of 5



Photograph 1 – View inside of the 796 Bedford Road Apartments well house were 0428-WSW03 and 0428-WSW04 were collected.



Photograph 2 – Samples were collected directly into the pre-preserved (HNO $_3$ to pH <2) 4-liter plastic container.



Photographs							
Contract No./WO Number	Site Name/Location	Date	Page				
EP-S8-13-01	Canadian Radium & Uranium Corp.	12/6/2016	Dogo 2 of F				
20408.012.004.0428.00	Mount Kisco, NY	12/6/2016	Page 2 of 5				



Photograph 3 – View of 796 Bedford Road Apartments well house.



Photograph 4 – View of Well #1 at 796 Bedford Road Apartments.



	Photographs		
Contract No./WO Number	Site Name/Location	Date	Page
EP-S8-13-01	Canadian Radium & Uranium Corp.	42/5/2045	Dogg 2 of F
20408.012.004.0428.00	Mount Kisco, NY	12/6/2016	Page 3 of 5



Photograph 5 – View inside Ramleh Water Works Corp. Inc. well house were 0428-WSW01, 0428-WSW02/ field duplicate 0428-WSW06 were collected.



Photograph 6 – View of Ramleh Water Works Corp. Inc. well house.



	Photographs		
Contract No./WO Number	Site Name/Location	Date	Page
EP-S8-13-01	Canadian Radium & Uranium Corp.	40/0/0040	Down 4 of F
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Photograph 7 – View of well at Building 101 Northern Westch Professional Park (0428-WSW05).



Photograph 8 – View of Building 101 Westch Professional Park well house.



Photographs						
Contract No./WO Number	Site Name/Location	Date	Page			
EP-S8-13-01	Canadian Radium & Uranium Corp.	10/6/2016	Dogo F of F			
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Photograph 9 – View of sample collection at Building 103 Westch Professional Park (0428-WSW07).