# **CBRMarslandPEm Resource**

From: John Schmuck [John\_Schmuck@Cameco.com]

**Sent:** Wednesday, May 28, 2014 5:51 PM

To: Lancaster, Thomas

Cc: Sabrina Fox; Rhonda Grantham; Larry Teahon; Doug Pavlick; Jack Cearley

**Subject:** Marland TR Appendix U Replacement Pages **Attachments:** Appendix U replacement pages 5-28-2014.pdf

Tom - Attached please find 12 replacement pages (the first six pages when double sided) for Appendix U of the Marsland TR. In the comments field of the Sample Analysis Report we have added the time period over which the sample was collected. The other Sample Analysis Reports in Appendix U already include this information.

# Thanks. .john

This email and any files transmitted with it are personal and confidential, and are solely for the use of the individual or entity addressed. Therefore, if you are not the intended recipient, please delete this email and any files transmitted with it (without making any copies) and advise the author immediately.

**Hearing Identifier:** CrowButte\_Marsland\_Public

Email Number: 91

Mail Envelope Properties (C9CF2A1FD2D6764E9D8E6D15CFBC5AD38453E574)

Subject: Marland TR Appendix U Replacement Pages

**Sent Date:** 5/28/2014 5:51:24 PM **Received Date:** 5/28/2014 5:55:26 PM

From: John Schmuck

Created By: John\_Schmuck@Cameco.com

#### Recipients:

"Sabrina Fox" <Sabrina\_Fox@cameco.com>

Tracking Status: None

"Rhonda Grantham" < Rhonda\_Grantham@cameco.com>

Tracking Status: None

"Larry Teahon" <Larry\_Teahon@cameco.com>

Tracking Status: None

"Doug Pavlick" < Doug Pavlick@cameco.com>

Tracking Status: None

"Jack Cearley" < Jack.Cearley@arcadis-us.com>

Tracking Status: None

"Lancaster, Thomas" < Thomas.Lancaster@nrc.gov>

Tracking Status: None

Post Office: CA0MX05P.cameco.com

Files Size Date & Time

MESSAGE 668 5/28/2014 5:55:26 PM

Appendix U replacement pages 5-28-2014.pdf 3202720

**Options** 

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal

Expiration Date: Recipients Received:



1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

# **Air Filter Summary Report**

Client: Cameco Resources, Crow Butte Operation

Lab ID: S120109 Sampled 10/1/20		11 4th Qtr)		Sa	mple Air \	/olume: 385047	7 Liters	
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	72.2	6.4	2E-14	2E-15	2E-15	6 E-13	Day	3.33
Radium 226	< 0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	< 0.3		<1E-16		1E-16	3 E-14	Year	0.00
Uranium	< 0.3		<1E-16		1E-16	9 E-14	Year	0.00



1673 Тетта Avenue, Sheridan, Wyoming 82801 рh: (307) 672-8945

# **Air Filter Summary Report**

Client: Cameco Resources, Crow Butte Operation

Lab ID: S120109 Sampled 10/1/201		11 4th Qtr)		Sa	mple Air \	/olume: 385122	9 Liters	
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	86.9	6.9	2E-14	2E-15	2E-15	6 E-13	Day	3.33
Radium 226	< 0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	< 0.3		<1E-16		1E-16	3 E-14	Year	0.00
Uranium	< 0.3		<1E-16		1E-16	9 E-14	Year	0.00



1673 Тегга Avenue, Sheridan, Wyoming 82801 рh: (307) 672-8945

# **Air Filter Summary Report**

Client: Cameco Resources, Crow Butte Operation

Lab ID: \$1201096 Sampled 10/1/201		i1 4th Qtr)		Sa	mple Air \	/olume: 385279	4 Liters	
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
ead 210	83.0	6.2	2E-14	2E-15	2E-15	6 E-13	Day	3.33
Radium 226	< 0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	0.4	0.4	<1E-16		1E-16	3 E-14	Year	0.00
Uranium	0.3		<1E-16		1E-16	9 E-14	Year	0.00



1673 Тетта Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

# **Air Filter Summary Report**

Client: Cameco Resources, Crow Butte Operation

Lab ID: S120109				223				
Sampled 10/1/20	11-1/4/2012 (20 <sup>.</sup>	11 4th Qtr)		Sa	imple Air \	/olume: 385304	6 Liters	
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	91.2	7.2	2E-14	2E-15	2E-15	6 E-13	Day	3.33
Radium 226	< 0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	< 0.3		<1E-16		1E-16	3 E-14	Year	0.00
Uranium	< 0.3		<1E-16		1E-16	9 E-14	Year	0.00



1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

# **Air Filter Summary Report**

Client: Cameco Resources, Crow Butte Operation

Sampled 10/1/20	11-1/4/2012 (201	11 4th Qtr)		Sa	mple Air \	/olume: 385613	6 Liters	
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	70.5	6.0	2E-14	2E-15	2E-15	6 E-13	Day	3.33
Radium 226	< 0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	0.4	0.4	1E-16	1E-16	1E-16	3 E-14	Year	0.33
Uranium	< 0.3		<1E-16		1E-16	9 E-14	Year	0.00



1673 Terra Avenue, Sheridan, Wyoming 82801

ph: (307) 672-8945

Date: 1/20/2012

CLIENT:

Cameco Resources, Crow Butte Operation

Project:

Marshland Expansion Area

Lab Order:

S1201090

**CASE NARRATIVE** 

Report ID: S1201090001

Samples MA-1, MA-2, MA-3, MA-4, and MA-5 were received on January 9, 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: all = -

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



1673 Terra Avenue, Sheridan, Wyoming 82801

ph: (307) 672-8945

#### Sample Analysis Report

Company:

Cameco Resources, Crow Butte Operation

PO Box 169

Crawford, NE 69339

ProjectName:

Marshland Expansion Area

Lab ID:

S1201090-001

ClientSample ID: COC:

MA-1

WEB

**Date Reported** 

1/20/2012

Report ID:

S1201090001

WorkOrder:

S1201090

CollectionDate: 1/4/2012

DateReceived: FieldSampler:

1/9/2012 RG

Matrix:

Filter

Comments

Sampled 10/1/2011-1/4/2012 (2011 4<sup>th</sup> QTR)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/In	it
Field							
Actual Volume	3850477	Liters			Field	1/4/2012	
Radionuclides - Filter							
_ead 210	72.2	pCi/Filter		2	OTW01	1/19/2012 12:55:00 PM	SH
Lead 210 Precision (±)	6.4	pCi/Filter			OTW01	1/19/2012 12:55:00 PM	SH
_ead 210	1.9E-14	μCi/mL		2.0E-15	Calculation	2/7/2012 5:07:39 PM	WN
_ead 210 Precision (±)	1.7E-15	µCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Radium 226	ND	pCi/Filter		0.3	<b>SM 7500RAB</b>	1/18/2012 11:20:00 AM	SH
Radium 226 Precision (±)	NA	pCi/Filter			<b>SM 7500RAB</b>	1/18/2012 11:20:00 AM	SH
Radium 226	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Radium 226 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230	ND	pCi/Filter		0.3	ACW10	1/31/2012 1:59:00 PM	WL
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	1/31/2012 1:59:00 PM	WL
Thorium 230	ND	µCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Jranium	ND	pCi/Filter		0.3	EPA 200.8	2/6/2012 12:15:01 PM	MS
Jranium	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN

# These results apply only to the samples tested.

### Qualifiers:

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

#### RL - Reporting Limit

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 5



1673 Terra Avenue, Sheridan, Wyoming 82801

ph: (307) 672-8945

#### Sample Analysis Report

Company:

Cameco Resources, Crow Butte Operation

PO Box 169

Crawford, NE 69339

ProjectName:

Marshland Expansion Area

Lab ID:

S1201090-002

ClientSample ID: COC:

MA-2 WEB

1/20/2012

**Date Reported** Report ID:

S1201090001

WorkOrder:

S1201090

CollectionDate: 1/4/2012

DateReceived:

1/9/2012

FieldSampler:

RG

Matrix:

Filter

Comments

Sampled 10/1/2011-1/4/2012 (2011 4<sup>th</sup> QTR)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/In	it
Field	10						
Actual Volume	3851229	Liters			Field	1/4/2012	
Radionuclides - Filter							
_ead 210	86.9	pCi/Filter		2	OTW01	1/19/2012 12:55:00 PM	SH
ead 210 Precision (±)	6.9	pCi/Filter			OTW01	1/19/2012 12:55:00 PM	SH
ead 210	2.3E-14	µCi/mL		2.0E-15	Calculation	2/7/2012 5:07:39 PM	WN
ead 210 Precision (±)	1.8E-15	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Radium 226 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230	ND	pCi/Filter		0.3	ACW10	1/31/2012 1:59:00 PM	WL
horium 230 Precision (±)	NA	pCi/Filter			ACW10	1/31/2012 1:59:00 PM	WL
Thorium 230	ND	µCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	W
horium 230 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	Wi
Jranium	ND	pCi/Filter		0.3	EPA 200.8	2/6/2012 2:44:12 PM	MS
Jranium	ND	µCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN

These results apply only to the samples tested.

Qualifiers:

Value exceeds Maximum Contaminant Level

Calculated Value

Holding times for preparation or analysis exceeded

Analyzed by a contract laboratory

Not Detected at the Reporting Limit

Spike Recovery outside accepted recovery limits

**RL - Reporting Limit** 

Analyte detected in the associated Method Blank

E

Value above quantitation range Analyte detected below quantitation limits

Value exceeds Monthly Ave or MCL

Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Page 2 of 5



1673 Terra Avenue, Sheridan, Wyoming 82801

ph: (307) 672-8945

### Sample Analysis Report

Company:

Cameco Resources, Crow Butte Operation

PO Box 169

Crawford, NE 69339

ProjectName:

Marshland Expansion Area

Lab ID:

51201090-003

ClientSample ID: COC:

MA-3

WEB Sampled 10/1/2011-1/4/2012 (2011 4<sup>th</sup> QTR) **Date Reported** 

1/20/2012

Report ID:

S1201090001

WorkOrder:

S1201090

CollectionDate: 1/4/2012

DateReceived:

1/9/2012

FieldSampler:

Matrix:

RG Filter

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/in	it
Field							
Actual Volume	3852794	Liters			Field	1/4/2012	
Radionuclides - Filter							
Lead 210	83.0	pCi/Filter		2	OTW01	1/19/2012 12:55:00 PM	SH
Lead 210 Precision (±)	6.2	pCi/Filter			OTW01	1/19/2012 12:55:00 PM	SH
Lead 210	2.2E-14	μCi/mL		2.0E-15	Calculation	2/7/2012 5:07:39 PM	WN
Lead 210 Precision (±)	1.6E-15	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Radium 226 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230	0.4	pCi/Filter		0.3	ACW10	1/31/2012 1:59:00 PM	WL
Thorium 230 Precision (±)	0.4	pCi/Filter			ACW10	1/31/2012 1:59:00 PM	WL
Thorium 230	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Jranium	0.3	pCi/Filter		0.3	EPA 200.8	2/6/2012 12:28:22 PM	MS
Jranium	ND	µCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN

#### These results apply only to the samples tested.

#### Qualifiers:

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

# **RL - Reporting Limit**

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



1673 Terra Avenue, Sheridan, Wyoming 82801

ph: (307) 672-8945

#### Sample Analysis Report

Company:

Cameco Resources, Crow Butte Operation

PO Box 169

Crawford, NE 69339

ProjectName:

Marshland Expansion Area

Lab ID:

S1201090-004

ClientSample ID: COC:

MA-4

VEB

WorkOrder:

Report ID:

**Date Reported** 

S1201090

1/20/2012

S1201090001

CollectionDate: 1/4/2012

1/9/2012

DateReceived: FieldSampler:

RG

Matrix:

Filter

Sampled 10/1/2011-1/4/2012 (2011 4<sup>th</sup> QTR)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/In	it
Field			33				
Actual Volume	3853046	Liters			Field	1/4/2012	
Radionuclides - Filter							
ead 210	91.2	pCi/Filter		2	OTW01	1/19/2012 12:55:00 PM	SH
ead 210 Precision (±)	7.2	pCi/Filter			OTW01	1/19/2012 12:55:00 PM	SH
_ead 210	2.4E-14	μCi/mL		2.0E-15	Calculation	2/7/2012 5:07:39 PM	WN
ead 210 Precision (±)	1.9E-15	µCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Radium 226	. ND	pCi/Filter		0.3	SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226	ND	µCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	W
Radium 226 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	W
Thorium 230	ND	pCi/Filter		0.3	ACW10	1/31/2012 2:00:00 PM	WL
horium 230 Precision (±)	NA	pCi/Filter			ACW10	1/31/2012 2:00:00 PM	WL
Thorium 230	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	W
Thorium 230 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	W
Jranium	ND	pCi/Filter		0.3	EPA 200.8	1/11/2012 10:31:39 AM	MS
Jranium	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	W

These results apply only to the samples tested.

Qualifiers:

Value exceeds Maximum Contaminant Level

Calculated Value

Holding times for preparation or analysis exceeded Н

Analyzed by a contract laboratory

Not Detected at the Reporting Limit

Spike Recovery outside accepted recovery limits

**RL - Reporting Limit** 

Analyte detected in the associated Method Blank

Value above quantitation range Analyte detected below quantitation limits

Value exceeds Monthly Ave or MCL

Outside the Range of Dilutions

Reviewed by: *all* 

Wade Nieuwsma, Assistant Laboratory Manager

Page 4 of 5



1673 Terra Avenue, Sheridan, Wyoming 82801

ph: (307) 672-8945

#### Sample Analysis Report

Company:

Cameco Resources, Crow Butte Operation

PO Box 169

Crawford, NE 69339

ProjectName:

Marshland Expansion Area

Lab ID:

S1201090-005

ClientSample ID: COC:

MA-5 WEB

**Date Reported** 

1/20/2012

Report ID:

S1201090001

WorkOrder:

S1201090

CollectionDate: 1/4/2012

DateReceived:

1/9/2012

FieldSampler:

RG

Sampled 10/1/2	2011-1/4/2012 (201	.1 4 <sup>tn</sup> QTR)		Mat	rix: Fil	ter	
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/In	it
Field	21						
Actual Volume	3856136	Liters			Field	1/4/2012	
Radionuclides - Filter							
Lead 210	70.5	pCi/Filter		2	OTW01	1/19/2012 12:55:00 PM	SH
Lead 210 Precision (±)	6.0	pCi/Filter			OTW01	1/19/2012 12:55:00 PM	SH
Lead 210	1.8E-14	μCi/mL		2.0E-15	Calculation	2/7/2012 5:07:39 PM	WN
Lead 210 Precision (±)	1.6E-15	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	1/18/2012 11:20:00 AM	SH
Radium 226	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Radium 226 Precision (±)	NA	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230	0.4	pCi/Filter		0.3	ACW10	1/31/2012 2:00:00 PM	WL
Thorium 230 Precision (±)	0.4	pCi/Filter			ACW10	1/31/2012 2:00:00 PM	WL
Thorium 230	1.0E-16	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN
Thorium 230 Precision (±)	1.0E-16	μCi/mL			Calculation	2/7/2012 5:07:39 PM	WN
Jranium	ND	pCi/Filter		0.3	EPA 200.8	1/11/2012 10:39:41 AM	MS
Jranium	ND	μCi/mL		1.0E-16	Calculation	2/7/2012 5:07:39 PM	WN

# These results apply only to the samples tested.

Qualifiers:

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

#### **RL - Reporting Limit**

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

# ANALYTICAL QC SUMMARY REPORT

CLIENT:

Cameco Resources, Crow Butte Operation

Date: 1/20/2012

Work Order:

S1201090

Report ID: S1201090001

Project:

Marshland Expansion Area

Uranium,	Air	Filter	Analysis	

Sample 1	Type MBLK	Units: pCi/	Filter							
5	Sample ID	RunNo: 78768	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
E	BLK	01/11/12 12:17	Uranium	ND to	0.3					
Sample 1	Type LCS	Units: pCi/	Filter			(19)				
[8	Sample ID	RunNo: 78768	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ī	LCS	01/11/12 10:05	Uranium	65.8	0,3	67.7		97.1	85 - 115	
Sample 1	Type MS	Units: pCi/	Filter							
[5	Sample ID	RunNo: 78768	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	S1201090-001AS	01/11/12 10:19	Uranium	726	0.3	745	16.6	95.3	70 - 130	***************************************
Sample 1	Type MSD	Units: pCi/	Filter					00.00-20000000		
. [	Sample ID	RunNo: 78768	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	S1201090-001AMSD	01/11/12 10:21	Uranium	745	0.3	726	2.68		20	
Sample 1	Type DUP	Units: pCi/	Filter							
[	Sample ID	RunNo: 78768	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	S1201090-001AD	01/11/12 10:16	Uranium	ND	0.3	16.6			20	(
Lead 21	I0 in Filters									
Sample 1	Type MBLK	Units: pCi/	Filter							
8	Sample ID	RunNo: 79071	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
1	AMB12-011	01/19/12 10:44	Lead 210	ND	2					
Sample 7	Type LCS	Units: pCi/	Filter							
8	Sample ID	RunNo: 79071	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ī	LCS	01/19/12 0:00	Lead 210	14	2	12.8		112	70 - 130	
Radium	226 Air Filter Analy	sis								
Sample 1	Type MBLK	Units: pCi/	Filter							
8	Sample ID	RunNo: 79035	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
1	MB12-011	01/18/12 11:20	Radium 226	ND	0.3					
Sample 7	Type LCS	Units: pCi/	Filter							
8	Sample ID	RunNo: 79035	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Ī	LCS12-011	01/18/12 11:20	Radium 226	5.0	0.3	5.06		99.5	70 - 130	
Sample 1	Type MS	Units: pCi	Filter							
[5	Sample ID	RunNo: 79035	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-	TAP WATER MS	01/18/12 13:44	Radium 226	4.8	0.3	5.06	ND	94.1	70 - 130	

#### 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