

Enclosure 2

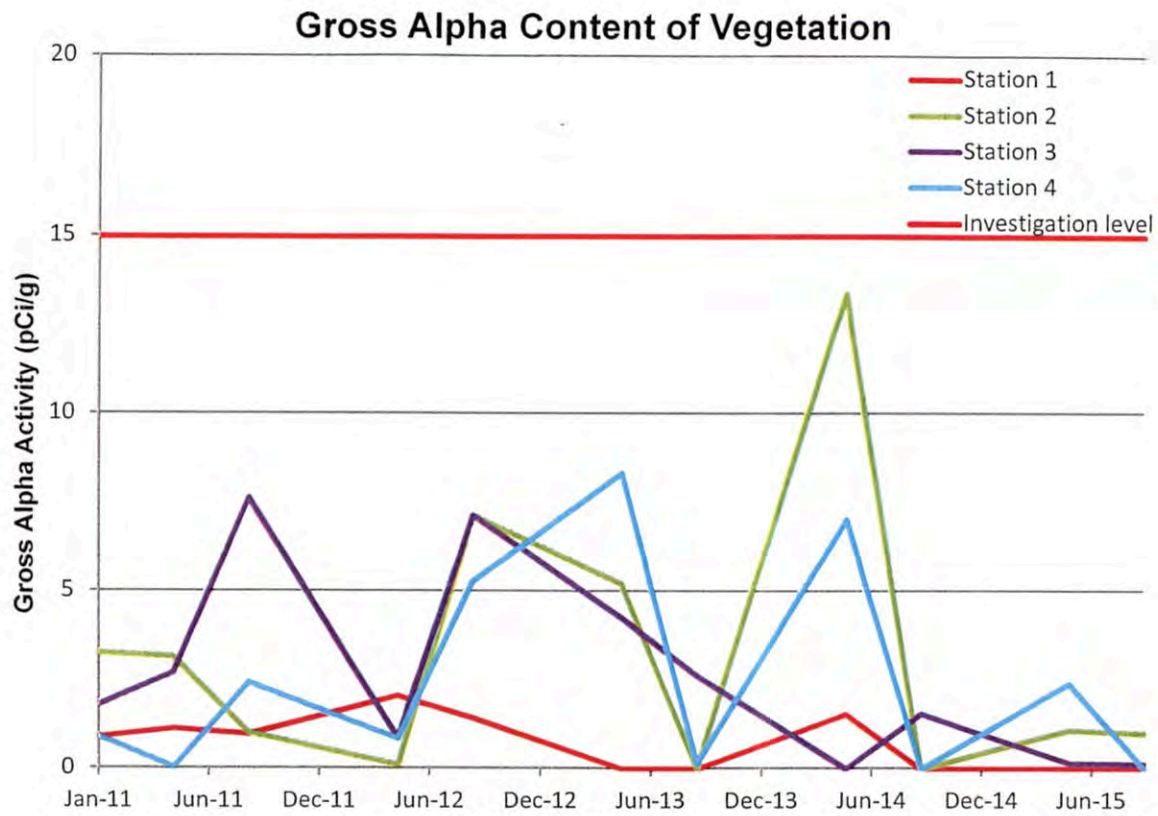


Figure 7. Gross Alpha Content of Vegetation at Environmental Stations

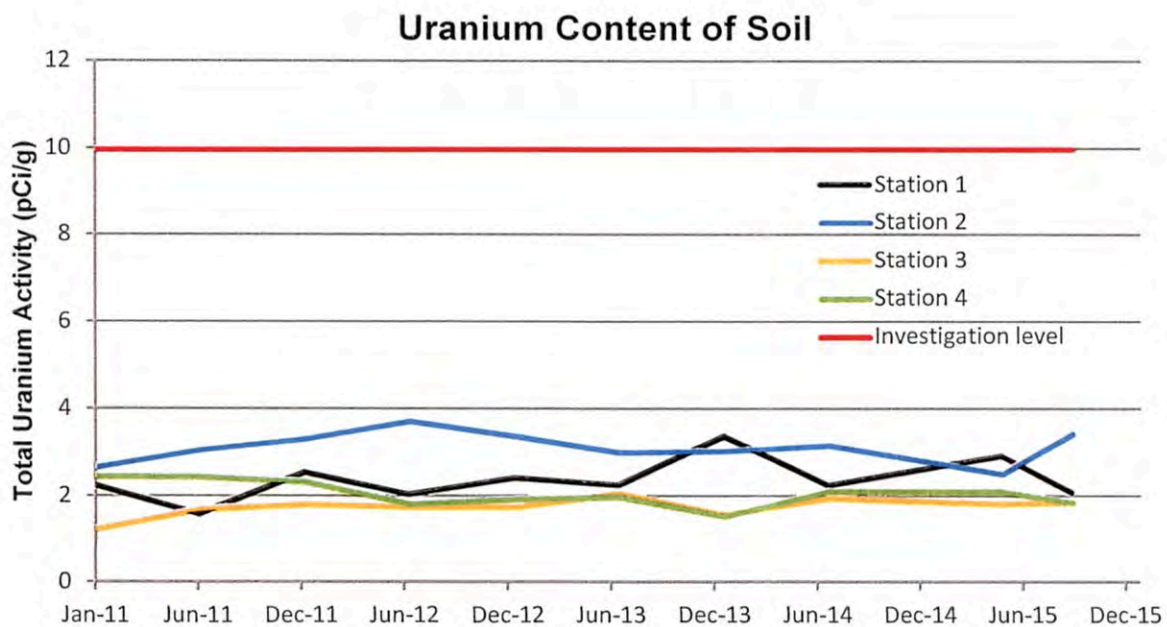
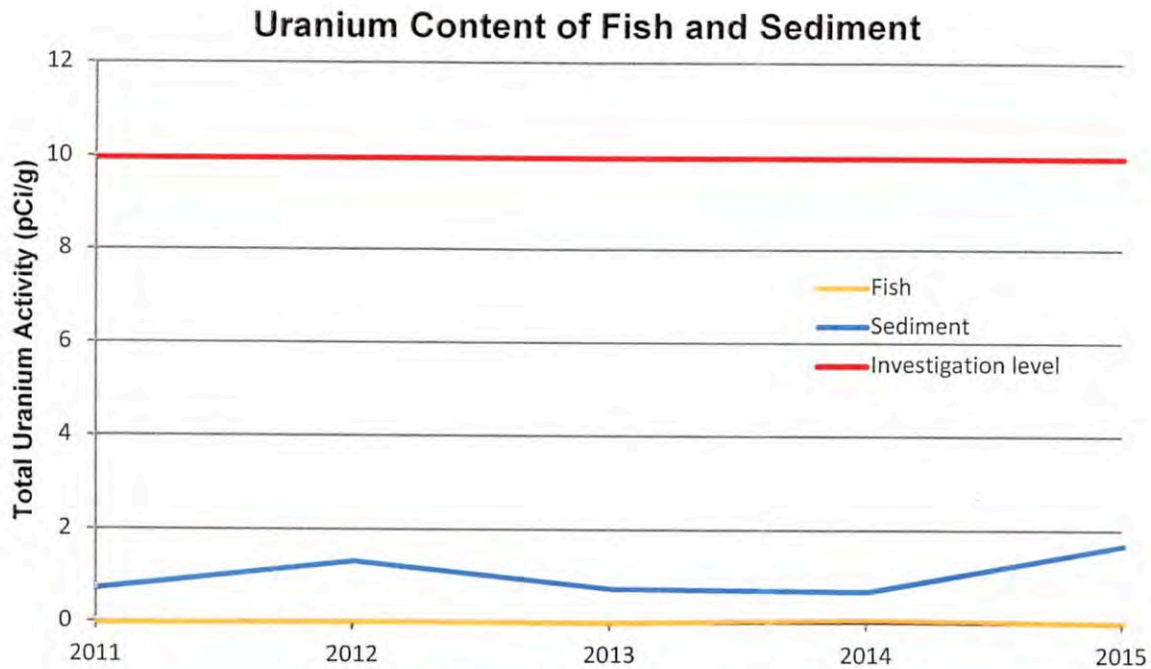
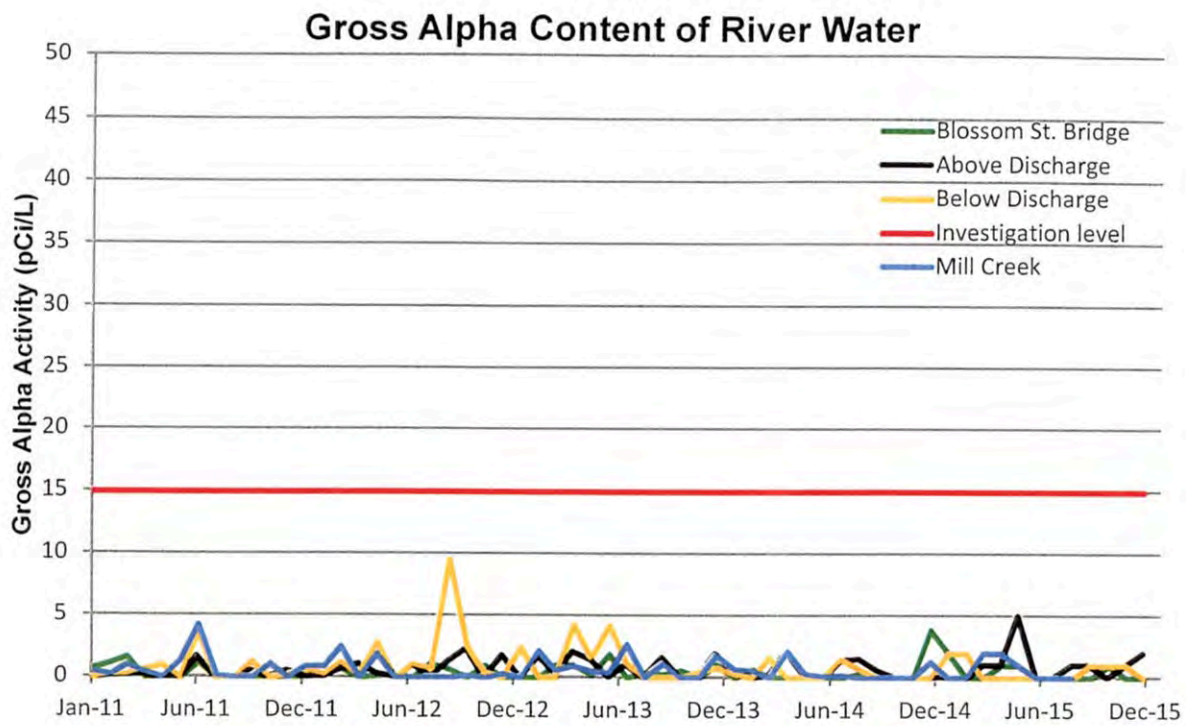


Figure 8. Uranium Content of Soil at Environmental Stations

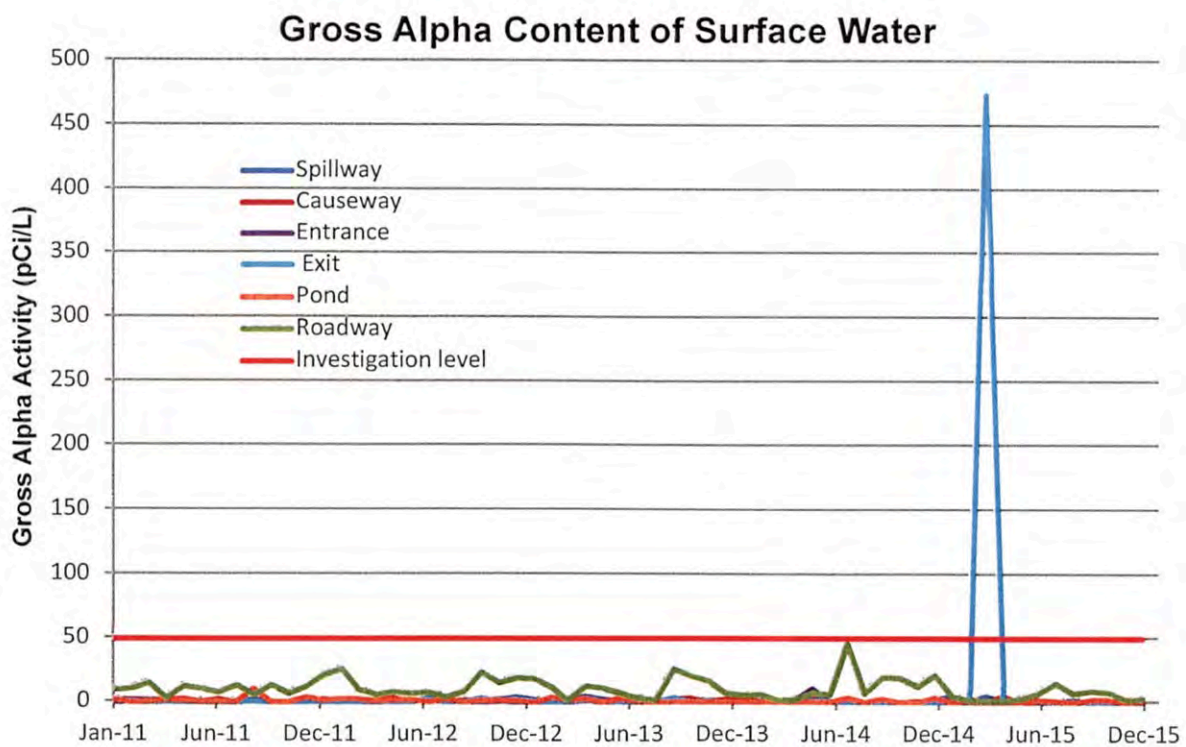
Figures 9-11 present the gross alpha or uranium content of fish, river sediment, river water, and surface water samples over the past 5 years. There was one surface water sample that exceeded the investigation level in 2015. In March the sample taken at the exit spiked above the investigation level. The cause was determined to be cross-contamination of the sample since no other elevated samples were observed. The results for all other samples show near background levels of uranium activity in the environment. No adverse trends were observed.



**Figure 9.** Uranium Content of Fish and Sediment from the Congaree River



**Figure 10.** Gross Alpha Content of River Water Samples

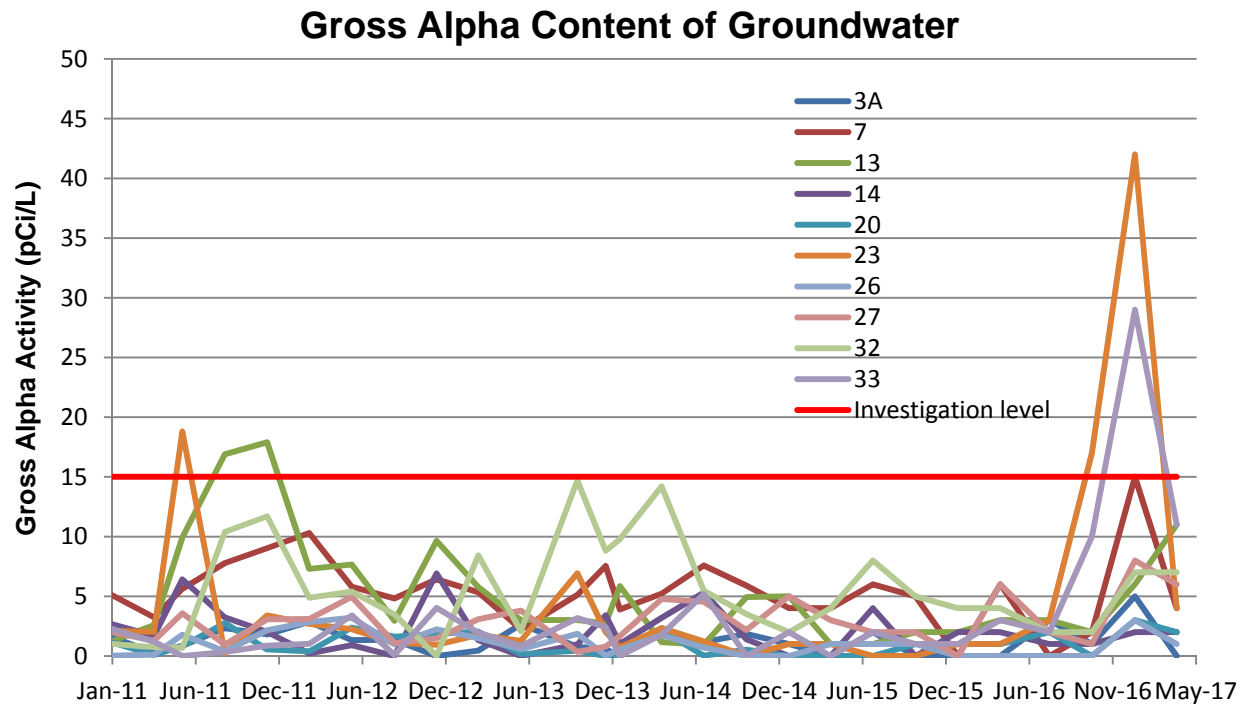


**Figure 11.** Gross Alpha Content of Surface Water Samples

**Gross Alpha Content of Groundwater**

The graph displays the Gross Alpha Activity (pCi/L) for various wells over time. The y-axis ranges from 0 to 50 pCi/L, and the x-axis shows dates from Jan-11 to May-17. A red horizontal line at 15 pCi/L represents the investigation level. Most wells remain below this level, with notable spikes for wells 23 and 33 in late 2016.

Date	3A	7	13	14	20	23	26	27	32	33	Investigation level
Jan-11	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Jun-11	1.0	2.0	1.0	1.0	1.0	18.0	1.0	1.0	1.0	1.0	15.0
Dec-11	1.0	2.0	17.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Jun-12	1.0	2.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Dec-12	1.0	2.0	10.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Jun-13	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Dec-13	1.0	2.0	9.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Jun-14	1.0	2.0	14.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Dec-14	1.0	2.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Jun-15	1.0	2.0	8.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Dec-15	1.0	2.0	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Jun-16	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	15.0
Nov-16	1.0	2.0	2.0	1.0	1.0	42.0	1.0	1.0	1.0	29.0	15.0
May-17	1.0	2.0	7.0	1.0	1.0	5.0	1.0	1.0	1.0	1.0	15.0





# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID: WELL 23R  
Sample ID: 414554011  
Matrix: Ground Water  
Collect Date: 13-JAN-17 11:34  
Receive Date: 18-JAN-17  
Collector: Client

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Liquid "As Received"													
Pct Uranium-235	U	0.00				percent			KXB2	02/14/17	1744	1638581	1
Uranium-233/234		0.651	+/-0.448	0.379	1.00	pCi/L							
Uranium-235/236	U	0.213	+/-0.338	0.468	1.00	pCi/L							
Uranium-238		0.618	+/-0.450	0.450	1.00	pCi/L							
Rad Gas Flow Proportional Counting													
GFPC, Gross Alpha Liquid "As Received"													
Alpha		48.5	+/-7.97	4.91	5.00	pCi/L			BXG2	02/02/17	1511	1633311	2
Beta		12.5	+/-1.97	1.68	5.00	pCi/L							
Alpha		35.8	+/-6.93	4.25	5.00	pCi/L			BXG2	02/06/17	0914	1633311	3
Beta		14.1	+/-2.42	2.74	5.00	pCi/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	EPA 900.0/SW846 9310	
3	EPA 900.0/SW846 9310	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Liquid "As Received"			91	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: November 23, 2016

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Columbia, South Carolina 29205  
Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID: WELL 23R  
Sample ID: 408634009  
Matrix: Ground Water  
Collect Date: 13-OCT-16 13:27  
Receive Date: 19-OCT-16  
Collector: Client

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Liquid "As Received"													
Pct Uranium-235	U	0.00	—			percent			MXS2	11/22/16	1020	1617484	1
Uranium-233/234		1.01	+/-0.546	0.384	1.00	pCi/L							
Uranium-235/236	U	0.0651	+/-0.244	0.411	1.00	pCi/L							
Uranium-238	U	0.366	+/-0.365	0.423	1.00	pCi/L							
Rad Gas Flow Proportional Counting													
GFPC, Gross Alpha Liquid "As Received"													
Alpha		18.8	—	+/-4.19	3.13	pCi/L			LXB3	11/12/16	1801	1612374	2
Beta		9.70	+/-2.16	2.88	5.00	pCi/L							
Alpha		14.1	+/-2.15	2.33	5.00	pCi/L			LXB3	11/14/16	1736	1612374	3
Beta		8.95	+/-1.47	2.11	5.00	pCi/L							

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	EPA 900.0/SW846 9310	
3	EPA 900.0/SW846 9310	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Liquid "As Received"			78.1	(15%-125%)

### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Columbia, South Carolina 29205  
Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID:	WELL 33	Project:	WNUC00402
Sample ID:	414554018	Client ID:	WNUC004
Matrix:	Ground Water		
Collect Date:	11-JAN-17 10:30		
Receive Date:	18-JAN-17		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Rad Alpha Spec Analysis</b>													
<b>Alphaspec U, Liquid "As Received"</b>													
Pct Uranium-235	U	0.00	—			percent			MXS2	02/03/17	0914	1636195	1
Uranium-233/234		0.524	+/-0.451	0.445	1.00	pCi/L							
Uranium-235/236	U	0.175	+/-0.344	0.477	1.00	pCi/L							
Uranium-238		0.965	+/-0.570	0.241	1.00	pCi/L							
<b>Rad Gamma Spec Analysis</b>													
<b>Gammascpec, Gamma, Liquid (Standard List) "As Received"</b>													
Actinium-228	U	5.20	+/-25.6	27.0		pCi/L			MXR1	01/25/17	0910	1632635	2
Americium-241	U	33.1	+/-28.4	47.6		pCi/L							
Antimony-124	U	1.48	+/-8.37	17.7		pCi/L							
Antimony-125	U	-3.32	+/-9.61	16.5		pCi/L							
Barium-133	U	-0.307	+/-5.03	7.94		pCi/L							
Barium-140	U	12.3	+/-23.6	47.4		pCi/L							
Beryllium-7	U	-5.16	+/-33.0	57.6		pCi/L							
Bismuth-212	U	29.7	+/-49.3	99.3		pCi/L							
Bismuth-214	UI	0.00	+/-12.4	20.0		pCi/L							
Cerium-139	U	-0.919	+/-2.87	4.63		pCi/L							
Cerium-141	U	-1.26	+/-5.39	9.85		pCi/L							
Cerium-144	U	2.01	+/-20.5	34.7		pCi/L							
Cesium-134	U	-3.26	+/-3.71	6.13		pCi/L							
Cesium-136	U	1.43	+/-9.56	18.3		pCi/L							
Cesium-137	U	-1.23	+/-3.46	6.29	10.0	pCi/L							
Chromium-51	U	0.093	+/-36.1	64.8		pCi/L							
Cobalt-56	U	2.05	+/-3.68	7.47		pCi/L							
Cobalt-57	U	-0.814	+/-2.61	4.29		pCi/L							
Cobalt-58	U	1.61	+/-3.22	6.65		pCi/L							
Cobalt-60	U	0.205	+/-3.24	6.61		pCi/L							
Europium-152	U	0.900	+/-10.0	18.1		pCi/L							
Europium-154	U	0.196	+/-9.54	19.2		pCi/L							
Europium-155	U	4.53	+/-11.0	19.4		pCi/L							
Iridium-192	U	2.83	+/-3.62	6.89		pCi/L							
Iron-59	U	-0.797	+/-8.11	14.9		pCi/L							
Lead-210	U	777	+/-2170	2170		pCi/L							
Lead-212	U	6.48	+/-10.6	12.0		pCi/L							
Lead-214	U	15.5	+/-16.0	19.0		pCi/L							
Manganese-54	U	2.21	+/-3.52	7.13		pCi/L							
Mercury-203	U	2.70	+/-3.51	6.74		pCi/L							

1.7 pCi/L



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Address : PO Drawer R

Contact: Columbia, South Carolina 29205  
Project: Ms. Cynthia Logsdon  
Ground Water Well Liquid Analysis

Client Sample ID: WELL 33  
Sample ID: 414554018

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis													
Gammascpec, Gamma, Liquid (Standard List) "As Received"													
Neodymium-147	U	46.3	+/-52.3	108		pCi/L							
Neptunium-239	U	28.4	+/-27.4	50.3		pCi/L							
Niobium-94	U	1.18	+/-3.27	6.41		pCi/L							
Niobium-95	U	-0.62	+/-3.87	7.13		pCi/L							
Potassium-40	UI	0.00	+/-40.8	66.0		pCi/L							
Promethium-144	U	0.877	+/-3.69	7.05		pCi/L							
Promethium-146	U	-2.89	+/-4.60	7.58		pCi/L							
Radium-228	U	5.20	+/-25.6	27.0		pCi/L							
Ruthenium-106	U	-11.3	+/-39.2	60.6		pCi/L							
Silver-110m	U	1.54	+/-4.66	9.22		pCi/L							
Sodium-22	U	-0.691	+/-3.48	6.71		pCi/L							
Thallium-208	U	1.57	+/-5.64	5.68		pCi/L							
Thorium-230	U	-1890	+/-1910	2780		pCi/L							
Thorium-234	U	97.3	+/-353	408		pCi/L							
Tin-113	U	-0.936	+/-4.11	7.21		pCi/L							
Uranium-235	U	-4.11	+/-23.1	35.0		pCi/L							
Uranium-238	U	97.3	+/-353	408		pCi/L							
Yttrium-88	U	1.52	+/-3.68	8.31		pCi/L							
Zinc-65	U	-5.39	+/-8.23	13.6		pCi/L							
Zirconium-95	U	-3.07	+/-6.73	12.0		pCi/L							
Rad Gas Flow Proportional Counting													
GFPC, Gross Alpha Liquid "As Received"													
Alpha		28.2	+/-6.52	4.86	5.00	pCi/L			BXG2	01/30/17	1427	1633308	3
Beta		20.0	+/-2.69	2.25	5.00	pCi/L							
Alpha		29.4	+/-5.57	4.90	5.00	pCi/L			BXG2	01/31/17	1429	1633308	4
Beta		24.1	+/-2.30	1.74	5.00	pCi/L							
Rad Liquid Scintillation Analysis													
LSC, Tritium Dist, Liquid "As Received"													
Tritium	U	189	+/-305	524	700	pCi/L			TXJ1	01/26/17	2044	1633516	5

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Columbia, South Carolina 29205  
Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID: WELL 33

Project: WNUC00402

Sample ID: 414554018

Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	EPA 901.1	
3	EPA 900.0/SW846 9310	
4	EPA 900.0/SW846 9310	
5	EPA 906.0 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Liquid "As Received"			73.6	(15%-125%)

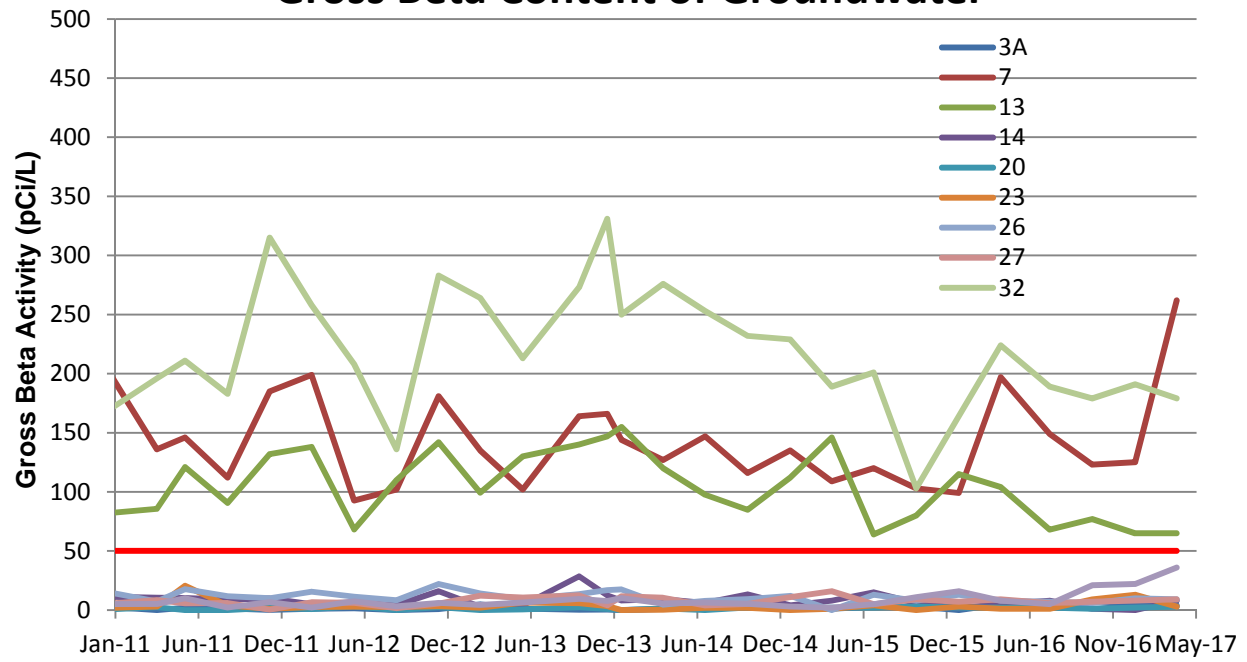
### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

## Gross Beta Content of Groundwater



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## Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Contact: Columbia, South Carolina 29205  
Project: Ms. Cynthia Logsdon  
Ground Water Well Liquid Analysis

Client Sample ID: WELL 13R Project: WNUC00402  
Sample ID: 414554004 Client ID: WNUC004  
Matrix: Ground Water  
Collect Date: 17-JAN-17 08:55  
Receive Date: 18-JAN-17  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis													
Gammaspec, Gamma, Liquid (Standard List) "As Received"													
Actinium-228	U	-10	+/-15.3	26.7		pCi/L			MXR1	01/25/17	0813	1632635	1
Americium-241	U	3.04	+/-15.8	28.6		pCi/L							
Antimony-124	U	2.38	+/-7.42	16.2		pCi/L							
Antimony-125	U	-3.15	+/-8.36	15.2		pCi/L							
Barium-133	U	4.45	+/-4.46	8.30		pCi/L							
Barium-140	U	9.30	+/-16.1	32.3		pCi/L							
Beryllium-7	U	10.3	+/-27.7	53.9		pCi/L							
Bismuth-212	U	5.94	+/-40.2	77.9		pCi/L							
Bismuth-214	UI	0.00	+/-16.0	23.9		pCi/L							
Cerium-139	U	2.34	+/-2.83	5.18		pCi/L							
Cerium-141	U	-2.02	+/-5.55	9.37		pCi/L							
Cerium-144	U	-13.4	+/-19.9	33.0		pCi/L							
Cesium-134	U	0.160	+/-3.94	6.67		pCi/L							
Cesium-136	U	1.55	+/-6.68	12.8		pCi/L							
Cesium-137	U	5.66	+/-10.0	6.27	10.0	pCi/L							
Chromium-51	U	32.4	+/-28.5	58.1		pCi/L							
Cobalt-56	U	1.36	+/-3.35	6.61		pCi/L							
Cobalt-57	U	0.604	+/-2.67	4.73		pCi/L							
Cobalt-58	U	0.403	+/-3.11	5.98		pCi/L							
Cobalt-60	U	1.82	+/-4.61	8.12		pCi/L							
Europium-152	U	-4.25	+/-8.80	16.0		pCi/L							
Europium-154	U	-2.62	+/-8.38	14.2		pCi/L							
Europium-155	U	5.40	+/-11.4	20.5		pCi/L							
Iridium-192	U	1.00	+/-3.23	5.69		pCi/L							
Iron-59	U	2.57	+/-6.35	12.8		pCi/L							
Lead-210	U	-431	+/-534	820		pCi/L							
Lead-212	U	3.53	+/-7.78	11.8		pCi/L							
Lead-214	UI	0.00	+/-15.2	22.0		pCi/L							
Manganese-54	U	1.48	+/-3.00	6.04		pCi/L							
Mercury-203	U	-1.13	+/-3.33	5.51		pCi/L							
Neodymium-147	U	-12.6	+/-30.3	54.8		pCi/L							
Neptunium-239	U	-3.73	+/-27.2	47.2		pCi/L							
Niobium-94	U	0.877	+/-3.01	5.83		pCi/L							
Niobium-95	U	-2.54	+/-4.15	6.30		pCi/L							
Potassium-40	U	-63	+/-46.7	85.2		pCi/L							
Promethium-144	U	-1.62	+/-3.75	6.59		pCi/L							



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Columbia, South Carolina 29205  
Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID: WELL 13R  
Sample ID: 414554004

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis													
Gammaspec, Gamma, Liquid (Standard List) "As Received"													
Promethium-146	U	-0.926	+/-3.74	6.91		pCi/L							
Radium-228	U	-10	+/-15.3	26.7		pCi/L							
Ruthenium-106	U	-4.89	+/-23.4	43.6		pCi/L							
Silver-110m	U	0.711	+/-3.48	6.96		pCi/L							
Sodium-22	U	-0.922	+/-2.95	4.98		pCi/L							
Thallium-208	U	2.56	+/-5.93	5.95		pCi/L							
Thorium-230	U	-32	+/-1120	1980		pCi/L							
Thorium-234	U	-60	+/-180	300		pCi/L							
Tin-113	U	-0.35	+/-3.77	7.07		pCi/L							
Uranium-235	U	-17.8	+/-25.2	37.4		pCi/L							
Uranium-238	U	-60	+/-180	300		pCi/L							
Yttrium-88	U	0.784	+/-2.87	6.57		pCi/L							
Zinc-65	U	2.30	+/-6.03	11.4		pCi/L							
Zirconium-95	U	-2.7	+/-5.82	10.3		pCi/L							
Rad Gas Flow Proportional Counting													
GFPC, Gross Alpha Liquid "As Received"													
Alpha		6.41	+/-3.63	4.98	5.00	pCi/L			BXG2	02/02/17	1507	1633311	2
Beta		63.7	+/-4.52	2.37	5.00	pCi/L							
Alpha		5.87	+/-4.01	4.98	5.00	pCi/L			BXG2	02/06/17	0800	1633311	3
Beta		66.2	+/-5.00	3.78	5.00	pCi/L							
Rad Liquid Scintillation Analysis													
LSC, Tritium Dist, Liquid "As Received"													
Tritium	U	-108	+/-283	533	700	pCi/L			TXJ1	01/26/17	1801	1633516	4
Liquid Scint Tc99, Liquid "As Received"													
Technetium-99		166	+/-29.1	41.2	50.0	pCi/L			LXT2	02/19/17	0546	1638606	5

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0/SW846 9310	
3	EPA 900.0/SW846 9310	
4	EPA 906.0 Modified	
5	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
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## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Columbia, South Carolina 29205  
Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID: WELL 13R  
Sample ID: 414554004

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Surrogate/Tracer Recovery	Test					Result	Nominal	Recovery%				Acceptable Limits	
Technetium-99m Tracer		Liquid Scint Tc99, Liquid "As Received"						90.9				(15%-125%)	

#### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID:	WELL 32	Project:	WNUC00402
Sample ID:	414554017	Client ID:	WNUC004
Matrix:	Ground Water		
Collect Date:	17-JAN-17 10:22		
Receive Date:	18-JAN-17		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis													
GammaSpec, Gamma, Liquid (Standard List) "As Received"													
Actinium-228	U	-14.8	+/-19.1	20.4		pCi/L			MXR1	02/01/17	1142	1632635	1
Americium-241	U	4.77	+/-8.54	13.9		pCi/L							
Antimony-124	U	0.421	+/-5.70	11.0		pCi/L							
Antimony-125	U	6.66	+/-7.07	11.2		pCi/L							
Barium-133	U	-3.08	+/-4.29	5.40		pCi/L							
Barium-140	U	6.03	+/-16.7	30.9		pCi/L							
Beryllium-7	U	-9.74	+/-22.3	38.6		pCi/L							
Bismuth-212	U	24.3	+/-33.6	63.1		pCi/L							
Bismuth-214	U	7.06	+/-9.93	11.1		pCi/L							
Cerium-139	U	-0.185	+/-1.94	3.18		pCi/L							
Cerium-141	U	-11.1	+/-6.12	7.18		pCi/L							
Cerium-144	U	-3.49	+/-13.2	21.6		pCi/L							
Cesium-134	U	-3.94	+/-3.91	4.79		pCi/L							
Cesium-136	U	2.07	+/-6.22	12.1		pCi/L							
Cesium-137	U	3.68	+/-3.02	4.18	10.0	pCi/L							
Chromium-51	U	-6.41	+/-23.9	42.4		pCi/L							
Cobalt-56	U	0.355	+/-2.78	4.93		pCi/L							
Cobalt-57	U	0.687	+/-2.41	2.97		pCi/L							
Cobalt-58	U	0.430	+/-2.48	4.47		pCi/L							
Cobalt-60	U	2.94	+/-2.91	4.80		pCi/L							
Europium-152	U	8.27	+/-6.78	12.6		pCi/L							
Europium-154	U	-0.873	+/-6.36	11.9		pCi/L							
Europium-155	U	3.87	+/-7.02	12.1		pCi/L							
Iridium-192	U	1.03	+/-2.27	4.21		pCi/L							
Iron-59	U	-2.82	+/-5.36	9.55		pCi/L							
Lead-210	U	-375	+/-332	339		pCi/L							
Lead-212	U	5.48	+/-9.14	8.20		pCi/L							
Lead-214	U	9.02	+/-10.1	9.82		pCi/L							
Manganese-54	U	1.73	+/-4.09	4.91		pCi/L							
Mercury-203	U	2.55	+/-3.64	4.54		pCi/L							
Neodymium-147	U	-21.9	+/-34.2	57.9		pCi/L							
Neptunium-239	U	16.3	+/-18.4	32.1		pCi/L							
Niobium-94	U	-0.331	+/-2.34	4.07		pCi/L							
Niobium-95	U	3.04	+/-2.90	5.53		pCi/L							
Potassium-40	U	8.06	+/-59.3	35.7		pCi/L							
Promethium-144	U	-2.47	+/-2.64	4.27		pCi/L							

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## Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Contact: Columbia, South Carolina 29205  
Project: Ms. Cynthia Logsdon  
Ground Water Well Liquid Analysis

Client Sample ID: WELL 32  
Sample ID: 414554017

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>Rad Gamma Spec Analysis</b>													
<b>Gammascpec, Gamma, Liquid (Standard List) "As Received"</b>													
Promethium-146	U	0.955	+/-2.88	5.27		pCi/L							
Radium-228	U	-14.8	+/-19.1	20.4		pCi/L							
Ruthenium-106	U	-4.12	+/-22.2	38.7		pCi/L							
Silver-110m	U	0.641	+/-3.22	5.81		pCi/L							
Sodium-22	U	-0.384	+/-2.24	4.15		pCi/L							
Thallium-208	U	-0.969	+/-3.61	4.84		pCi/L							
Thorium-230	UI	0.00	+/-1270	1080		pCi/L							
Thorium-234	U	56.4	+/-141	118		pCi/L							
Tin-113	U	1.68	+/-2.96	5.50		pCi/L							
Uranium-235	U	-13.4	+/-20.3	24.5		pCi/L							
Uranium-238	U	56.4	+/-141	118		pCi/L							
Yttrium-88	U	2.57	+/-2.64	5.78		pCi/L							
Zinc-65	U	-2.32	+/-4.47	8.00		pCi/L							
Zirconium-95	U	-0.15	+/-5.01	8.80		pCi/L							
<b>Rad Gas Flow Proportional Counting</b>													
<b>GFPC, Gross Alpha Liquid "As Received"</b>													
Alpha		11.4	+/-4.81	4.84	5.00	pCi/L			BXG2	01/30/17	1427	1633308	2
Beta		180	+/-7.40	3.28	5.00	pCi/L							
Alpha	U	2.93	+/-3.08	5.00	5.00	pCi/L			BXG2	01/31/17	1429	1633308	3
Beta		201	+/-7.14	3.94	5.00	pCi/L							
<b>Rad Liquid Scintillation Analysis</b>													
<b>LSC, Tritium Dist, Liquid "As Received"</b>													
Tritium	U	55.8	+/-292	522	700	pCi/L			TXJ1	01/26/17	2027	1633516	4
<b>Liquid Scint Tc99, Liquid "As Received"</b>													
Technetium-99		301	+/-33.6	41.6	50.0	pCi/L			GXR1	02/07/17	0431	1636096	5

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0/SW846 9310	
3	EPA 900.0/SW846 9310	
4	EPA 906.0 Modified	
5	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
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### Certificate of Analysis

Report Date: February 20, 2017

Company : Westinghouse Electric Company, LLC  
Address : PO Drawer R

Columbia, South Carolina 29205  
Contact: Ms. Cynthia Logsdon  
Project: Ground Water Well Liquid Analysis

Client Sample ID: WELL 32  
Sample ID: 414554017

Project: WNUC00402  
Client ID: WNUC004

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Surrogate/Tracer Recovery	Test					Result	Nominal	Recovery%				Acceptable Limits	
Technetium-99m Tracer	Liquid Scint Tc99, Liquid "As Received"							86.2				(15%-125%)	

#### Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

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