

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF HEALTH

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OFFICE OF RADIOLOGICAL HEALTH  
109 Governor Street, 7<sup>th</sup> Floor, Richmond, Virginia 23219  
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**ENVIRONMENTAL  
RADIATION  
MONITORING  
PROGRAM**

**2024  
Second Quarter Report**

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF HEALTH

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# Sampling Locations

## Sampling Locations for Surry & North Anna Nuclear Power Station



*Surry Power Station*



*North Anna Power Station*

### Air

SPS-A-1	Surry Power Station	Beta Air Filter Gamma Charcoal & Filter
SPS-A-2	Jamestown	Beta Air Filter Gamma Charcoal & Filter
PSP-A-1	Pocahontas State Park	Beta Air Filter Gamma Charcoal & Filter
NAPS-A-1	Louisa (Outside North Anna Power Station)	Beta Air Filter Gamma Charcoal & Filter
NAPS-A-2	Bumpass	Beta Air Filter Gamma Charcoal & Filter

### Water

SPS-W-1	Surry Power Station Discharge Canal	Gamma, Tritium
SPS-W-2	James River @ Robious Landing	Gamma, Tritium
SPS-W-3	James River @ Lawnes Creek	Gamma, Tritium
NAPS-W-1	North Anna Power Station Discharge Canal	Gamma, Tritium
NAPS-W-2	North Anna River @ Rt 651	Gamma, Tritium
NAPS-W-3	Pleasants Landing	Gamma, Tritium

## Sample Analysis Results for Surry & North Anna Power Stations

WEEK	FREQUENCY	PAGE	COMMENTS
Week 1: 01/01/24- 01/08/24	Weekly	12	
Week 2: 01/08/24 - 01/15/24	Weekly	13	
Week 3: 01/15/24 - 01/22/24	Weekly	14	
Week 4: 01/22/24 - 01/29/24	Weekly	15	
Week 5: 01/29/24 - 02/05/24	Weekly	16	
Week 6: 02/05/24 - 02/12/24	Weekly	17	
Week 7: 02/12/24 - 02/19/24	Weekly	18	
Week 8: 02/19/24 - 02/26/24	Weekly	19	
Week 9: 02/26/24 - 03/04/24	Weekly	20	
Week 10: 03/04/24 - 03/11/24	Weekly	21	
Week 11: 03/11/24 - 03/18/24	Weekly	22	
Week 12: 03/18/24- 03/25/24	Weekly	23	
Week 13: 03/25/24 - 04/01/24	Weekly	24	
Week 14: 04/01/24 - 04/08/24	Weekly	25	
Week 15: 04/08/24 - 04/15/24	Weekly	26	
Week 16: 04/15/24 - 04/22/24	Weekly	27	
Week 17: 04/22/24 - 04/29/24	Weekly	28	
Week 18: 04/29/24 - 05/06/24	Weekly	29	
Week 19: 05/06/24 - 05/13/24	Weekly	30	
Week 20: 05/13/24 - 05/20/24	Weekly	31	
Week 21: 05/20/24- 05/27/24	Weekly	32	
Week 22: 05/27/24 - 06/03/24	Weekly	33	
Week 23: 06/03/24 - 06/10/24	Weekly	34	
Week 24: 06/10/24 - 06/17/24	Weekly	35	
Week 25: 06/17/24 - 06/24/24	Weekly	36	
Week 26: 06/24/24 - 07/01/24	Weekly	37	
Week 27: 07/01/24 - 07/08/24	Weekly	38	
Week 28: 07/08/24 - 07/15/24	Weekly	39	
Week 29: 07/15/24- 07/22/24	Weekly	40	
Week 30: 07/22/24 - 07/29/24	Weekly	41	
Week 31: 07/29/24 - 08/05/24	Weekly	42	
Week 32: 08/05/24 - 08/12/24	Weekly	43	
Week 33: 08/12/24 - 08/19/24	Weekly	44	
Week 34: 08/19/24 - 08/26/24	Weekly	45	
Week 35: 08/26/24 - 09/02/24	Weekly	46	
Week 36: 09/02/24 - 09/09/24	Weekly	47	
Week 37: 09/09/24 - 09/16/24	Weekly	48	

<b>WEEK</b>	<b>FREQUENCY</b>	<b>PAGE</b>	<b>COMMENTS</b>
<b>Week 38: 09/16/24 - 09/23/24</b>	Weekly	49	
<b>Week 39: 09/23/24 - 09/30/24</b>	Weekly	50	
<b>Week 40: 09/30/24 - 10/07/24</b>	Weekly	51	
<b>Week 41: 10/07/24 - 10/14/24</b>	Weekly	52	
<b>Week 42: 10/14/24 - 10/21/24</b>	Weekly	53	
<b>Week 43: 10/21/24 - 10/28/24</b>	Weekly	54	
<b>Week 44: 10/28/24 - 11/04/24</b>	Weekly	55	
<b>Week 45: 11/04/24 - 11/11/24</b>	Weekly	56	
<b>Week 46: 11/11/24 - 11/18/24</b>	Weekly	57	
<b>Week 47: 11/18/24 - 11/25/24</b>	Weekly	58	
<b>Week 48: 11/25/24 - 12/02/24</b>	Weekly	59	
<b>Week 49: 12/02/24 - 12/09/24</b>	Weekly	60	
<b>Week 50: 12/09/24 - 12/16/24</b>	Weekly	61	
<b>Week 51: 12/16/24 - 12/23/24</b>	Weekly	62	
<b>Week 52: 12/23/24 - 12/30/24</b>	Weekly	63	

## Other Sample Locations

We are currently working with both facilities to determine the sampling frequency moving forward

SAMPLE	LOCATION	TYPE	FREQUENCY	PAGE
<b><u>Surface Water</u></b>				
NNSB-W-1	James River - NNSB-Pier 1	Surface Water	TBD	64
NNSB-W-2	James River - NNSB-Shipway 11	Surface Water	TBD	64
NNSY-W-1	Elizabeth River - NNSY - Drydock #4	Surface Water	TBD	65
NNSY-W-2	Elizabeth River - NNSY - Drydock #8	Surface Water	TBD	66
NNSY-W-3	Elizabeth River - NNSY - Drydock #1	Surface Water	TBD	67
<b><u>Silt</u></b>				
NNSB-S-1	James River - NNSB - Pier 1	Silt	TBD	68
NNSB-S-2	James River - NNSB-Shipway 11	Silt	TBD	69
NNSY-S-1	Elizabeth River - NNSY - Drydock #4	Silt	TBD	70
NNSY-S-2	Elizabeth River - NNSY - Drydock #8	Silt	TBD	71
NNSY-S-3	Elizabeth River - NNSY - Drydock #1	Silt	TBD	72

## Other Sample Types for Surry & North Anna Power Stations

Sample	Location	Description	Frequency	Page
<b>SILT</b>				
SPS-S-1	James River – 1 ½ Mile Off Discharge Canal	Silt	2x per year	73
NAPS-S-1	Waste Treatment Shoreline Soil	Soil	2x per year	73
<b>FISH</b>				
NAPS-F-1	North Anna Lake – Second Cooling Lagoon	Edible Fish	2x per year	74-75
SPS-F-1	James River – .5 miles off Discharge Canal	Edible Fish	2x per year	74-75
SPS-R-1	James River- Various Locations	Shellfish	Annually	76
<b>MILK</b>				
SPS-M-1	Williamsburg - MO Smith Farm	Raw	2x per year	77-78
<b>VEGETATION</b>				
SPS-V-1	Surry County – various locations	Edible Vegetation	2x per year	79
NAPS-V-1	Louisa County – various locations	Edible Vegetation	2x per year	79

## Dosimetry Locations for Surry & North Anna Power Stations

Dosimetry	Station	Frequency	Description	Page
Jamestown – Historical site	SPS-D-1	Quarterly	Gamma in Air	80-83
Williamsburg – Airport	SPS-D-2	Quarterly	Gamma in Air	80-83
Williamsburg – Busch Gardens	SPS-D-3	Quarterly	Gamma in Air	80-83
Newport News - Lee Hall	SPS-D-4	Quarterly	Gamma in Air	80-83
Naval Weapons Station – 1	SPS-D-5	Quarterly	Gamma in Air	80-83
Newport News – Fort Eustis	SPS-D-6	Quarterly	Gamma in Air	80-83
Surry – Route 628	SPS-D-7	Quarterly	Gamma in Air	80-83
Surry – Lawnes Creek	SPS-D-8	Quarterly	Gamma in Air	80-83
Surry Power Station	SPS-D-9	Quarterly	Gamma in Air	80-83
Surry – Hog Point	SPS-D-10	Quarterly	Gamma in Air	80-83
Surry – Bacon’s Castle	SPS-D-11	Quarterly	Gamma in Air	80-83
Surry – Alliance	SPS-D-12	Quarterly	Gamma in Air	80-83
Surry – Scotland Wharf	SPS-D-13	Quarterly	Gamma in Air	80-83
Surry – Surry County Courthouse	SPS-D-14	Quarterly	Gamma in Air	80-83
Louisa County - Mineral	NAPS-D-1	Quarterly	Gamma in Air	80-83
Louisa County – Wares Crossroads	NAPS-D-2	Quarterly	Gamma in Air	80-83
Louisa County – Good Hope Church	NAPS-D-3	Quarterly	Gamma in Air	80-83
Spotsylvania – Route 713	NAPS-D-4	Quarterly	Gamma in Air	80-83
Spotsylvania Route 614	NAPS-D-5	Quarterly	Gamma in Air	80-83
Spotsylvania – Levy	NAPS-D-6	Quarterly	Gamma in Air	80-83
Louisa County – Bumpass Fire Dept.	NAPS-D-7	Quarterly	Gamma in Air	80-83
Louisa County – Fred Hall	NAPS-D-8	Quarterly	Gamma in Air	80-83
Louisa County – Aspen Hill	NAPS-D-9	Quarterly	Gamma in Air	80-83
Louisa County – Route 685	NAPS-D-10	Quarterly	Gamma in Air	80-83
Louisa County – Route 700	NAPS-D-11	Quarterly	Gamma in Air	80-83
North Anna Power Station	NAPS-D-12	Quarterly	Gamma in Air	80-83
Pocahontas State Park (Control)	PSP-D-1	Quarterly	Gamma in Air	80-83
Radiological Health	ORH-D-1	Quarterly	Gamma in Air	80-83
Radiological Health	ORH-D-2	Quarterly	Gamma in Air	80-83



## Sampling Locations - Babcock & Wilcox

<b>SAMPLE</b>	<b>LOCATION</b>	<b>TYPE</b>	<b>FREQUENCY</b>	<b>PAGE</b>
<b><u>AIR</u></b>				
B&W-A-1	Eastern Site Boundary - Ballfield	Air Particulate	Quarterly	85
<b><u>SOIL</u></b>				
B&W-S-1	Eastern Site Boundary - Ballfield	Soil	Annually	86
B&W-S-2	James River Riverside Park	Soil	Annually	86
<b><u>SURFACE WATER</u></b>				
B&W-W-1	Eastern Site Boundary - Ballfield	Surface Water	Annually	86
B&W-W-2	James River Riverside Park	Surface Water	Annually	86
<b><u>VEGETATION</u></b>				
B&W-V-1	Eastern Site Boundary - Ballfield	Grass	Annually	87
B&W-V-2	James River Riverside Park	Grass	Annually	87

# COMMONWEALTH OF VIRGINIA

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# NO DETECTABLE RESULTS "NDR"

In order for a nuclide to be identified in the spectrum and entered into this report, constraints set by the HPGe analysis software need to be satisfied and the results of the confidence index calculation must be greater than the threshold (usually 0.3).

For the maximum confidence index, the following conditions need to be met.

- The nuclide energy peak needs to be within the energy tolerance of the library lines for that nuclide.
- A nuclide with multiple lines, must match the library peaks in the spectrum.
- The number of half-lives that has elapsed, between when the sample was taken and when it was counted, must be less than 10 half-lives or the confidence in the identification is small.

If the confidence index threshold and/or any of the three criteria are not met, then the nuclide is deemed no detectable results, (NDR).

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DEPARTMENT OF HEALTH

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# Analytical Results

# Virginia Department of Health

## Week 1: 01/01/24 – 01/08/24

### Air

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.03+/0.004
SPS-A-2	NDR	NDR	NDR	0.04+/0.005
PSP-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-1	NDR	NDR	NDR	0.05+/0.006
NAPS-A-2	NDR	NDR	NDR	0.03+/0.004

### Water

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	0+/-214
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	0+/-214
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8408+/-439
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	0+/-214
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8934+/-445

\*SPS-W-1 not collected due to access issue – canal dredging operation.

**Virginia Department of Health**  
**Week 2: 01/08/24– 01/15/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.02+/0.003
SPS-A-2	NDR	NDR	NDR	0.02+/0.004
PSP-A-1	NDR	NDR	NDR	0.02+/0.004
NAPS-A-1	NDR	NDR	NDR	0.02+/0.004
NAPS-A-2	NDR	NDR	NDR	0.03+/0.005

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1201+/-159
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1051+/-159
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	9459+/-477
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	826+/-142
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8859+/-455

\*SPS-W-1 not collected due to access issue – canal dredging operation.

**Virginia Department of Health**  
**Week 3: 01/15/24- 01/22/24\***

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

\*No samples collected due to other program activities

**Virginia Department of Health**  
**Week 4: 01/22/24- 01/29/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.03+/0.004
SPS-A-2	NDR	NDR	NDR	0.03+/0.005
PSP-A-1	NDR	NDR	NDR	0.03+/0.004
NAPS-A-1	NDR	NDR	NDR	0.02+/0.003
NAPS-A-2	NDR	NDR	NDR	0.04+/0.005

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1577+/-200
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1426+/-173
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	9459+/-475
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1201+/-158
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8784+/-464

\*SPS-W-1 not collected due to access issue - canal dredging operation.

**Virginia Department of Health**  
**Week 5: 01/29/24 – 02/05/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.02+/0.004
SPS-A-2	NDR	NDR	NDR	0.02+/0.005
PSP-A-1	NDR	NDR	NDR	0.02+/0.005
NAPS-A-1	NDR	NDR	NDR	0.02+/0.005
NAPS-A-2	NDR	NDR	NDR	0.03+/0.004

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 37	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2**											
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	375+/-100
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8108+/-442
NAPS-W-2**											
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8258+/-442

\*SPS-W-1 not collected due to access issue – canal dredging operation.

\*\*SPS-W-2 and NAPS-W-2 not collected due to high water conditions at sampling sites.



**Virginia Department of Health**  
**Week 6: 02/05/24- 02/12/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.03+/0.005
SPS-A-2	NDR	NDR	NDR	0.04+/0.006
PSP-A-1	NDR	NDR	NDR	0.04+/0.007
NAPS-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-2	NDR	NDR	NDR	0.03+/0.006

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	751+/-61
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	0+/-132
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7583+/-179
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	526+/-43
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6757+/-169

\*SPS-W-1 not collected due to access issue - canal dredging operation.

**Virginia Department of Health**  
**Week 7: 02/12/24- 02/19/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.02+/0.003
SPS-A-2	NDR	NDR	NDR	0.02+/0.004
PSP-A-1	NDR	NDR	NDR	0.01+/0.003
NAPS-A-1	NDR	NDR	NDR	0.02+/0.004
NAPS-A-2	NDR	NDR	NDR	0.02+/0.003

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 37	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1652+/-188
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1276+/-174
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	11562+/-532
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	751+/-123
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8784+/-455

\*SPS-W-1 not collected due to access issue - canal dredging operation.

**Virginia Department of Health**  
**Week 8: 02/19/24- 02/26/24\***

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

\*No samples collected due to other program activities

**Virginia Department of Health**  
**Week 9: 02/26/24 – 03/04/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.02+/0.003
SPS-A-2	NDR	NDR	NDR	0.03+/0.004
PSP-A-1	NDR	NDR	NDR	0.02+/0.003
NAPS-A-1	NDR	NDR	NDR	0.02+/0.002
NAPS-A-2	NDR	NDR	NDR	0.02+/0.003

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	751+/-123
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	676+/-123
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8709+/-444
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	300+/-71
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8634+/-450

\*SPS-W-1 not collected due to access issue – canal dredging operation.

**Virginia Department of Health**  
**Week 10: 03/04/24- 03/11/24\***

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1*				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

\*No samples collected due to other program activities

**Virginia Department of Health**  
**Week 11: 03/11/24 – 03/18/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.01+/0.002
SPS-A-2	NDR	NDR	NDR	0.01+/0.003
PSP-A-1	NDR	NDR	NDR	0.01+/0.002
NAPS-A-1	NDR	NDR	NDR	0.01+/0.002
NAPS-A-2	NDR	NDR	NDR	0.01+/0.002

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	150+/-71
SPS-W-2*											
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	225+/-71
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7057+/-410
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	375+/-101
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	9835+/-478

\*SPS-W-2 not collected due to flooded access site

**Virginia Department of Health**  
**Week 12: 03/18/24 - 03/25/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.04+/0.006
SPS-A-2	NDR	NDR	NDR	0.04+/0.006
PSP-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-2	NDR	NDR	NDR	0.03+/0.005

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	150+/-71
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	0+/-0
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	150+/-71
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8483+/-457
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	150+/-71
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8183+/-457

**Virginia Department of Health**  
**Week 13: 03/25/24- 04/01/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.02+/0.004
SPS-A-2	NDR	NDR	NDR	0.03+/0.005
PSP-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-1	NDR	NDR	NDR	0.02+/0.005
NAPS-A-2	NDR	NDR	NDR	0.03+/0.004

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	121171+/-1658
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	676+/-123
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	751+/-142
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7883+/-425
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	901+/-142
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	9309+/-470

\*Elevated tritium level due to ongoing release of Liquid Waste Monitoring Tank (LWMT) at time of sample collection. Confirmed by Surry Power Station count room personnel.



**Virginia Department of Health**  
**Week 14: 04/01/24 – 04/08/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.03+/0.005
SPS-A-2	NDR	NDR	NDR	0.04+/0.006
PSP-A-1	NDR	NDR	NDR	0.02+/0.004
NAPS-A-1	NDR	NDR	NDR	0.02+/0.003
NAPS-A-2	NDR	NDR	NDR	0.02+/0.003

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1*											
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	225+/-71
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	75+/-235
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6757+/-401
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	0+/-235
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7808+/-437

\*No sample collected for SPS-W-1 due to access restriction on dock.

**Virginia Department of Health**  
**Week 15: 04/08/24 – 04/15/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.03+/-0.005
SPS-A-2	NDR	NDR	NDR	0.04+/-0.006
PSP-A-1	NDR	NDR	NDR	0.05+/-0.008
NAPS-A-1	NDR	NDR	NDR	0.04+/-0.007
NAPS-A-2	NDR	NDR	NDR	0.05+/-0.007

**Water**

Site	Gamma and Tritium Activity - pCi/Liter											
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity	
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	976+/-142
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	375+/-100
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	901+/-142
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6381+/-389
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	375+/-100
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7432+/-420

**Virginia Department of Health**  
**Week 16: 04/15/24 – 04/22/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.05+/0.007
SPS-A-2	NDR	NDR	NDR	0.04+/0.006
PSP-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-2	NDR	NDR	NDR	0.03+/0.005

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1201+/-159
SPS-W-2*											
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	676+/-123
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6982+/-409
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	375+/-101
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6907+/-409

\*No sample collected for SPS-W-2 due to high water levels on the James River.

**Virginia Department of Health**  
**Week 17: 04/22/24 – 04/29/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.03+/0.005
SPS-A-2	NDR	NDR	NDR	0.03+/0.005
PSP-A-1	NDR	NDR	NDR	0.04+/0.007
NAPS-A-1	NDR	NDR	NDR	0.05+/0.007
NAPS-A-2	NDR	NDR	NDR	0.04+/0.005

**Water**

Site	Gamma and Tritium Activity – pCi/Liter											
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity	
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	601+/-124
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	526+/-101
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	601+/-124
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6982+/-404
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	300+/-71
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7357+/-416

**Virginia Department of Health**  
**Week 18: 04/29/24 – 05/06/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.04+/0.006
SPS-A-2	NDR	NDR	NDR	0.04+/0.006
PSP-A-1	NDR	NDR	NDR	0.05+/0.008
NAPS-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-2	NDR	NDR	NDR	0.04+/0.006

**Water**

Site	Gamma and Tritium Activity – pCi/Liter											
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity	
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1727+/-202
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1351+/-175
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1276+/-175
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	7207+/-416
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	601+/-124
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6982+/-416

**Virginia Department of Health**  
**Week 19: 05/06/24 – 05/13/24 \***

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

\*No samples collected due to other program activities.

**Virginia Department of Health**  
**Week 20: 05/13/24 - 05/20/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.04+/0.005
SPS-A-2	NDR	NDR	NDR	0.03+/0.005
PSP-A-1	NDR	NDR	NDR	0.04+/0.006
NAPS-A-1	NDR	NDR	NDR	0.05+/0.007
NAPS-A-2	NDR	NDR	NDR	0.05+/0.007

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	901+/-142
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	225+/-71
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	601+/-123
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	5781+/-376
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	225+/-71
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	5781+/-376

**Virginia Department of Health**  
**Week 21: 05/20/24 – 05/27/24\***

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

\*No samples collected due to other program activities.



**Virginia Department of Health**  
**Week 22: 05/27/24 – 06/03/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.05+/0.007
SPS-A-2	NDR	NDR	NDR	0.05+/0.006
PSP-A-1	NDR	NDR	NDR	0.06+/0.008
NAPS-A-1	NDR	NDR	NDR	0.05+/0.007
NAPS-A-2	NDR	NDR	NDR	0.04+/0.006

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	5856+/-363
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	751+/-142
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1802+/-201
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	5556+/-369
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1051+/-159
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6006+/-376

**Virginia Department of Health**  
**Week 23: 06/03/24 - 06/10/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.06+/0.009
SPS-A-2	NDR	NDR	NDR	0.06+/0.009
PSP-A-1	NDR	NDR	NDR	0.05+/0.008
NAPS-A-1	NDR	NDR	NDR	0.05+/0.008
NAPS-A-2	NDR	NDR	NDR	0.05+/0.008

**Water**

Site	Gamma and Tritium Activity - pCi/Liter											
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity	
SPS-W-1*	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	14039+/-570
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	450+/-100
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1426+/-173
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6306+/-387
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1351+/-173
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8108+/-430

\*Elevated SPS-W-1 tritium level due to release of Liquid Waste Monitoring Tank at time of sample collection, confirmed by SPS Count Room personnel.

**Virginia Department of Health**  
**Week 24: 06/10/24 – 06/17/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.05+/0.007
SPS-A-2	NDR	NDR	NDR	0.05+/0.007
PSP-A-1	NDR	NDR	NDR	0.05+/0.007
NAPS-A-1*				
NAPS-A-2	NDR	NDR	NDR	0.06+/0.009

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1727+/-200
SPS-W-2**											
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1502+/-188
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6231+/-388
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1351+/-174
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	6532+/-395

\*NAPS-A-1 not analyzed due to power failure

\*\*SPS-W-2 not collected due to access restrictions at sample site.

**Virginia Department of Health**  
**Week 25: 06/17/24 – 06/24/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1	NDR	NDR	NDR	0.05+/0.008
SPS-A-2	NDR	NDR	NDR	0.05+/0.008
PSP-A-1	NDR	NDR	NDR	0.06+/0.008
NAPS-A-1	NDR	NDR	NDR	0.06+/0.009
NAPS-A-2	NDR	NDR	NDR	0.06+/0.009

**Water**

Site	Gamma and Tritium Activity – pCi/Liter											
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity	
SPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	901+/-142
SPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1126+/-159
SPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1802+/-201
NAPS-W-1	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	8333+/-444
NAPS-W-2	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	1802+/-201
NAPS-W-3	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	NDR	10511+/-493

**Virginia Department of Health**  
**Week 26: 06/24/24 - 07/01/24\***

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

\*No samples collected due to other program activities.

**Virginia Department of Health**  
**Week 27: 07/01/24 – 07/08/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 28: 07/08/24 – 07/15/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 29: 07/15/24 – 07/22/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											



**Virginia Department of Health**  
**Week 30: 07/22/24 – 07/29/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 31: 07/29/24 – 08/05/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 32: 08/05/24 – 08/12/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 33: 08/12/24 – 08/19/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 34: 08/19/24 – 08/26/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 35: 08/26/24 - 09/02/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 36: 09/02/24 – 09/09/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 37: 09/09/24 – 09/16/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											



**Virginia Department of Health**  
**Week 38: 09/16/24 – 09/23/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 39: 09/23/24 – 09/30/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 40: 09/30/24 – 10/07/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 41: 10/07/24 - 10/14/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											

**Virginia Department of Health**  
**Week 42: 10/14/24 - 10/21/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 43: 10/21/24 – 10/28/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 44: 10/28/24 – 11/04/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 45: 11/04/24 - 11/11/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											



**Virginia Department of Health**  
**Week 46: 11/11/24 - 11/18/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 47: 11/18/24 – 11/25/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 48: 11/25/24 – 12/02/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 49: 12/02/24 – 12/09/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 50: 12/09/24 – 12/16/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

# Virginia Department of Health

## Week 51: 12/16/24 - 12/23/24

### Air

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

### Water

Site	Gamma and Tritium Activity - pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

**Virginia Department of Health**  
**Week 52: 12/23/24 – 12/30/24**

**Air**

Site	Gamma & Radiogas in Air			Air Particulate
	I-131 Activity pCi/meter <sup>3</sup>	Cs-134 Activity pCi/meter <sup>3</sup>	Cs-137 Activity pCi/meter <sup>3</sup>	Gross Beta Activity pCi/meter <sup>3</sup>
SPS-A-1				
SPS-A-2				
PSP-A-1				
NAPS-A-1				
NAPS-A-2				

**Water**

Site	Gamma and Tritium Activity – pCi/Liter										
	Mn 54	Co 58	Fe 59	Co 60	Zn 65	Zr 95	I 131	Cs 134	Cs 137	Ba 140	H3 Activity
SPS-W-1											
SPS-W-2											
SPS-W-3											
NAPS-W-1											
NAPS-W-2											
NAPS-W-3											

# Virginia Department of Health SURFACE WATER

January 1, 2024 through December 31, 2024

James River – Pier #1  
NNSB-W-1

Qtr.	Date collected	Gamma Activity – pCi/liter					
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>1st</b>							
<b>2nd</b>							
<b>3rd</b>							
<b>4th</b>							

James River – Shipway #11  
NNSB-W-2

Qtr.	Date collected	Gamma Activity – pCi/liter					
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>1st</b>							
<b>2nd</b>							
<b>3rd</b>							
<b>4th</b>							



# Virginia Department of Health

## SURFACE WATER

January 1, 2024 through December 31, 2024

### Norfolk Naval Shipyard

Elizabeth River – Dry Dock #4  
Norfolk Naval Shipyard NNSY-W-1

Qtr.	Date collected	Gamma Activity – pCi/liter					
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>1st</b>							
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>2nd</b>	04/16/2024	NDR	NDR	NDR	NDR	NDR	NDR
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>3rd</b>							
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>4th</b>							

# Virginia Department of Health SURFACE WATER

January 1, 2024 through December 31, 2024

## Norfolk Naval Shipyard

Elizabeth River – Dry Dock #8  
Norfolk Naval Shipyard NNSY-W-2

Qtr.	Date collected	Gamma Activity – pCi/liter					
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>1st</b>							
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>2nd</b>	04/16/2024	NDR	NDR	NDR	NDR	NDR	NDR
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>3rd</b>							
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>4th</b>							

# Virginia Department of Health SURFACE WATER

January 1, 2024 through December 31, 2024

## Norfolk Naval Shipyard

Elizabeth River – Drydock #1  
Norfolk Naval Shipyard NNSY-W-3

Qtr.	Date collected	Gamma Activity – pCi/liter					
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>1st</b>							
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>2nd</b>	04/16/2024	NDR	NDR	NDR	NDR	NDR	NDR
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>3rd</b>							
		Ba-140	Cs-137	I-131	Mn-54	Zn-65	Zr95/Nb95
<b>4rd</b>							

# Virginia Department of Health SILT

January 1, 2024 through December 31, 2024

## Newport News Shipbuilder

Location	Date Collected	Gamma Activity pCi/gram			
James River - Pier 1  NNSB-S-1		Cs-134	Cs-137	Co-58	Co-60
James River - Pier 1  NNSB-S-1		Cs-134	Cs-137	Co-58	Co-60
James River - Pier 1  NNSB-S-1		Cs-134	Cs-137	Co-58	Co-60
James River - Pier 1  NNSB-S-1		Cs-134	Cs-137	Co-58	Co-60

# Virginia Department of Health SILT

January 1, 2024 through December 31, 2024

## Newport News Shipbuilder

Location	Date Collected	Gamma Activity pCi/gram			
James River - Shipway 11  NNSB-S-2		Cs-134	Cs-137	Co-58	Co-60
James River - Shipway 11  NNSB-S-2		Cs-134	Cs-137	Co-58	Co-60
James River - Shipway 11  NNSB-S-2		Cs-134	Cs-137	Co-58	Co-60
James River - Shipway 11  NNSB-S-2		Cs-134	Cs-137	Co-58	Co-60

# Virginia Department of Health SILT

January 1, 2024 through December 31, 2024

## Norfolk Naval Shipyard

Location	Date Collected	Gamma Activity pCi/gram			
<b>Elizabeth River Drydock #4</b>	04/16/2024				
<b>NNSY-S-1</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
	NDR	NDR	NDR	NDR	
<b>Elizabeth River Drydock #4</b>					
<b>NNSY-S-1</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
<b>Elizabeth River Drydock #4</b>					
<b>NNSY-S-1</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
<b>Elizabeth River Drydock #4</b>					
<b>NNSY-S-1</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	

# Virginia Department of Health SILT

January 1, 2024 through December 31, 2024

## Norfolk Naval Shipyard

Location	Date Collected	Gamma Activity pCi/gram			
<b>Elizabeth River Drydock #8</b>	04/16/2024				
<b>NNSY-S-2</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
	NDR	NDR	NDR	NDR	
<b>Elizabeth River Drydock #8</b>					
<b>NNSY-S-2</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
<b>Elizabeth River Drydock #8</b>	09/20/20				
<b>NNSY-S-2</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
<b>Elizabeth River Drydock #8</b>					
<b>NNSY-S-2</b>	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	

# Virginia Department of Health SILT

January 1, 2024 through December 31, 2024

Location	Date Collected	Gamma Activity pCi/gram			
Elizabeth River Drydock #1	04/16/2024				
NNSY-S-3	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
	NDR	NDR	NDR	NDR	
Elizabeth River Drydock #1					
NNSY-S-3	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
Elizabeth River Drydock #1					
NNSY-S-3	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	
Elizabeth River Drydock #1					
NNSY-S-3	<b>Cs134</b>	<b>Cs137</b>	<b>Co58</b>	<b>Co60</b>	



# Virginia Department of Health

## SILT

January 1, 2024 through December 31, 2024

### North Anna Power Station Discharge Canal, North Anna River – NAPS-S-1

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Date Collected	Gamma Activity pCi/gram			
	Cs-134	Cs-137	Co-58	Co-60
04/18/2024	NDR	NDR	NDR	NDR

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Date Collected	Gamma Activity pCi/gram			
	Cs-134	Cs-137	Co-58	Co-60

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### Surry Power Station Discharge Canal SPS-S-1

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Date Collected	Gamma Activity pCi/gram			
	Cs-134	Cs-137	Co-58	Co-60
2/13/24	NDR	NDR	NDR	NDR

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Date Collected	Gamma Activity pCi/gram			
	Cs-134	Cs-137	Co-58	Co-60

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Note: Silt samples are collected bi-annually.

# Virginia Department of Health

## FISH

January 1, 2024 through December 31, 2024

### Dominion Nuclear Power Station

Location Type of fish	Date Collected	Isotope	pCi/gram		
<b>North Anna Cooling Lagoon</b>	/18	Ba-140			
		Cs-134			
		Cs-137			
		Co-58			
		Co-60			
		I-131			
		Fe-59			
		Mn-54			
		Ru-106			
		Ag-110M			
<b>NAPS- F-1 (Fish)</b>		Zn-65			
		Nb-95			
		<b>Surry Discharge Canal</b>			
		Ba-140	<0.229		
		Cs-134	<0.018		
		Cs-137	<0.017		
		Co-58	<0.021		
		Co-60	<0.017		
		<b>SPS-F-1 (Fish)</b>	4-22-2024	I-131	<0.134
				Fe-59	<0.045
		Mn-54	<0.016		
		Ru-106	<0.154		
		Ag-110M	<0.020		
		Zn-65	<0.035		
		Nb-95	<0.035		

Note: Fish samples collected bi-annually

# Virginia Department of Health FISH

January 1, 2024 through December 31, 2024

## Dominion Nuclear Power Station

Location Type of fish	Date Collected	Isotope	pCi/gram	
<b>North Anna Cooling Lagoon</b>		Ba-140		
		Cs-134		
		Cs-137		
		Co-58		
	NAPS- F-1		Co-60	
	(Fish)		I-131	
			Fe-59	
			Mn-54	
			Ru-106	
			Ag-110	
			Zn-65	
			Nb-95	
	<b>Surry Discharge Canal</b>		Ba-140	
		Cs-134		
		Cs-137		
		Co-58		
		Co-60		
SPS-F-1			I-131	
(Fish)			Fe-59	
			Mn-54	
			Ru-106	
			Ag-110M	
			Zn-65	
			Nb-95	

Note: Fish samples collected bi-annually

# Virginia Department of Health SHELLFISH

January 1, 2024 through December 31, 2024

## Dominion Nuclear Power Station

Location Type of fish	Date Collected	Isotope	pCi/gram
<b>Surry Power Station</b>     <b>SPS-R-1</b> <b>(Clams and Oysters)</b>	04/10/2024	Ba-140	<1390
		Cs-134	<17.1
		Cs-137	<18.7
		Co-58	<22.2
		Co-60	<16.1
		I-131	<2560
		Fe-59	<59.4
		Mn-54	<16.6
		Ru-106	<164
		Ag-110M	<23.6
Zn-65	<34.2		
Nb-95	<38.0		

Note: Shellfish are collected annually when available.

# Virginia Department of Health Milk

January 1, 2024 through December 31, 2024

<b>Williamsburg MO Smith Farm</b> <b>SPS-M-1</b> 1st Quarter Date: No sample collected this quarter	
<b>Isotope</b>	<b>Results - pCi/liter</b>
Ba-140	
Cs-134	
Cs-137	
K-40	
I-131	
Sr-89	
Sr-90	
<b>Williamsburg MO Smith Farm</b> <b>SPS-M-1</b> 2nd Quarter Date:	
<b>Isotope</b>	<b>Results - pCi/liter</b>
Ba-140	
Cs-134	
Cs-137	
K-40	
I-131	
Sr-89	
Sr-90	
<b>Williamsburg MO Smith Farm</b> <b>SPS-M-1</b> 3rd Quarter Date:	
<b>Isotope</b>	<b>Results - pCi/liter</b>
Ba-140	
Cs-134	
Cs-137	
K-40	
I-131	
Sr-89	
Sr-90	

# Virginia Department of Health

## Milk

January 1, 2024 through December 31, 2024

### Williamsburg MO Smith Farm

#### SPS-M-1

4th Quarter Date:

Isotope	Results - pCi/liter
Ba-140	
Cs-134	
Cs-137	
K-40	
I-131	
Sr-89	
Sr-90	

# Virginia Department of Health VEGETATION

January 1, 2024 through December 31, 2024

Location	Date collected	Type	Isotope	Results pCi/Gram (wet weight)
<b>Various locations within the 10 mile EPZ</b>				
	2nd Quarter	Mixed Greens	I-131	
<b>SPS-V-1</b>			Cs-134	
			Cs-137	
<b>Various locations within the 10 mile EPZ</b>				
	2nd Quarter	Mixed Greens	I-131	
<b>NAPS-V-1</b>			Cs-134	
			Cs-137	
<b>Surry Count Various locations within the 10 mile EPZ</b>				
	4th Quarter	Mixed Greens	I-131	
<b>SPS-V-1</b>			Cs-134	
			Cs-137	
<b>Various locations within the 10 mile EPZ</b>				
	4th Quarter	Mixed Greens	I-131	
<b>NAPS-V-1</b>			Cs-134	
			Cs-137	

Note: Vegetation is collected bi-annually when available.

# Virginia Department of Health

## AMBIENT GAMMA EXPOSURE

### FIRST QUARTER

Location	Station	Net Exposure Rate mR/Std Qtr +/- 2S.D.		
Jamestown – Historical site	SPS-D-1	21.35	+/-	9.24
Williamsburg – Airport	SPS-D-2	22.54	+/-	9.49
Williamsburg – Busch Gardens	SPS-D-3	22.91	+/-	9.57
Newport News - Lee Hall	SPS-D-4	27.07	+/-	10.41
Naval Weapons Station – 1	SPS-D-5	19.20	+/-	8.76
Newport News – Fort Eustis	SPS-D-6	21.50	+/-	9.27
Surry – Route 628	SPS-D-7	20.71	+/-	9.10
Surry – Lawnes Creek	SPS-D-8	26.32	+/-	10.26
Surry Power Station	SPS-D-9	24.26	+/-	9.85
Surry – Hog Point	SPS-D-10	22.33	+/-	9.45
Surry – Bacon’s Castle	SPS-D-11	22.96	+/-	9.58
Surry – Alliance	SPS-D-12	18.27	+/-	8.55
Surry – Scotland Wharf	SPS-D-13	23.52	+/-	9.70
Surry – Lebanon Baptist Church	SPS-D-14	26.70	+/-	10.33
Louisa County - Mineral	NAPS-D-1	26.99	+/-	10.39
Louisa County – Wares Crossroads	NAPS-D-2	21.27	+/-	9.22
Spotsylvania – Good Hope Church	NAPS-D-3	30.15	+/-	10.98
Spotsylvania – Route 713	NAPS-D-4	22.77	+/-	9.54
Spotsylvania Route 614	NAPS-D-5	23.21	+/-	9.64
Spotsylvania – Levy	NAPS-D-6	24.26	+/-	9.85
Louisa County – Bumpass Fire	NAPS-D-7	29.45	+/-	10.85
Louisa County – Fred Hall	NAPS-D-8	27.63	+/-	10.51
Louisa County – Aspen Hill	NAPS-D-9	32.69	+/-	11.43
Louisa County – Route 685	NAPS-D-10	26.24	+/-	10.24
Louisa County – Route 700	NAPS-D-11	29.01	+/-	10.77
North Anna Power Station	NAPS-D-12	21.61	+/-	9.30
Pocahontas State Park (Control)	PSP-D-1	29.92	+/-	10.94
Radiological Health	ORH-D-1	13.90	+/-	7.46
Radiological Health	ORH-D-2	12.67	+/-	7.12



# Virginia Department of Health

## AMBIENT GAMMA EXPOSURE

### SECOND QUARTER

Location	Station	Net Exposure Rate		
		mR/Std Qtr	+/-	2S.D.
Jamestown – Historical site	SPS-D-1	21.37	+/-	9.25
Williamsburg – Airport	SPS-D-2	19.48	+/-	8.83
Williamsburg – Busch Gardens	SPS-D-3	23.40	+/-	9.67
Newport News - Lee Hall	SPS-D-4	26.82	+/-	10.36
Naval Weapons Station – 1	SPS-D-5	20.16	+/-	8.98
Newport News – Fort Eustis	SPS-D-6	21.53	+/-	9.28
Surry – Route 628	SPS-D-7	21.90	+/-	9.36
Surry – Lawnes Creek	SPS-D-8	28.38	+/-	10.65
Surry Power Station	SPS-D-9	25.30	+/-	10.06
Surry – Hog Point	SPS-D-10	26.16	+/-	10.23
Surry – Bacon’s Castle	SPS-D-11	22.25	+/-	9.43
Surry – Alliance	SPS-D-12	18.41	+/-	8.58
Surry – Scotland Wharf	SPS-D-13	23.00	+/-	9.59
Surry – Lebanon Baptist Church	SPS-D-14	26.31	+/-	10.26
Louisa County - Mineral	NAPS-D-1	25.19	+/-	10.04
Louisa County – Wares Crossroads	NAPS-D-2	22.89	+/-	9.57
Louisa County – Good Hope Church	NAPS-D-3	28.11	+/-	10.60
Spotsylvania – Route 713	NAPS-D-4	21.52	+/-	9.28
Spotsylvania Route 614	NAPS-D-5	21.19	+/-	9.21
Spotsylvania – Levy	NAPS-D-6	25.21	+/-	10.04
Louisa County – Bumpass Fire Dep	NAPS-D-7	29.67	+/-	10.89
Louisa County – Fred Hall	NAPS-D-8	26.15	+/-	10.23
Louisa County – Aspen Hill	NAPS-D-9	30.71	+/-	11.08
Louisa County – Route 685	NAPS-D-10	22.75	+/-	9.54
Louisa County – Route 700	NAPS-D-11	25.90	+/-	10.18
North Anna Power Station	NAPS-D-12	28.66	+/-	10.71
Pocahontas State Park (Control)	PSP-D-1	29.92	+/-	10.94
Radiological Health	ORH-D-1	15.16	+/-	7.79
Radiological Health	ORH-D-2	11.68	+/-	6.84

# Virginia Department of Health AMBIENT GAMMA EXPOSURE

THIRD QUARTER

Location	Station	Net Exposure Rate mR/Std Qtr +/- 2S.D.
Jamestown – Historical site	SPS-D-1	+/-
Williamsburg – Airport	SPS-D-2	+/-
Williamsburg – Busch Gardens	SPS-D-3	+/-
Newport News - Lee Hall	SPS-D-4	+/-
Naval Weapons Station – 1	SPS-D-5	+/-
Newport News – Fort Eustis	SPS-D-6	+/-
Surry – Route 628	SPS-D-7	+/-
Surry – Lawnes Creek	SPS-D-8	+/-
Surry Power Station	SPS-D-9	+/-
Surry – Hog Point	SPS-D-10	+/-
Surry – Bacon’s Castle	SPS-D-11	+/-
Surry – Alliance	SPS-D-12	+/-
Surry – Scotland Wharf	SPS-D-13	+/-
Surry – Lebanon Baptist Church	SPS-D-14	+/-
Louisa County - Mineral	NAPS-D-1	+/-
Louisa County – Wares Crossroads	NAPS-D-2	+/-
Louisa County – Good Hope Church	NAPS-D-3	+/-
Spotsylvania – Route 713	NAPS-D-4	+/-
Spotsylvania Route 614	NAPS-D-5	+/-
Spotsylvania – Levy	NAPS-D-6	+/-
Louisa County – Bumpass Fire Dept.	NAPS-D-7	+/-
Louisa County – Fred Hall	NAPS-D-8	+/-
Louisa County – Aspen Hill	NAPS-D-9	+/-
Louisa County – Route 685	NAPS-D-10	+/-
Louisa County – Route 700	NAPS-D-11	+/-
North Anna Power Station	NAPS-D-12	+/-
Pocahontas State Park (Control)	PSP-D-1	+/-
Radiological Health	ORH-D-1	+/-
Radiological Health	ORH-D-2	+/-

# Virginia Department of Health AMBIENT GAMMA EXPOSURE

## FOURTH QUARTER

Location	Station	Net Exposure Rate mR/Std Qtr +/- 2S.D.
Jamestown – Historical site	SPS-D-1	+/-
Williamsburg – Airport	SPS-D-2	+/-
Williamsburg – Busch Gardens	SPS-D-3	+/-
Newport News - Lee Hall	SPS-D-4	+/-
Naval Weapons Station – 1	SPS-D-5	+/-
Newport News – Fort Eustis	SPS-D-6	+/-
Surry – Route 628	SPS-D-7	+/-
Surry – Lawnes Creek	SPS-D-8	+/-
Surry Power Station	SPS-D-9	+/-
Surry – Hog Point	SPS-D-10	+/-
Surry – Bacon’s Castle	SPS-D-11	+/-
Surry – Alliance	SPS-D-12	+/-
Surry – Scotland Wharf	SPS-D-13	+/-
Surry – Lebanon Baptist Church	SPS-D-14	+/-
Louisa County - Mineral	NAPS-D-1	+/-
Louisa County – Wares Crossroads	NAPS-D-2	+/-
Louisa County – Good Hope Church	NAPS-D-3	+/-
Spotsylvania – Route 713	NAPS-D-4	+/-
Spotsylvania Route 614	NAPS-D-5	+/-
Spotsylvania – Levy	NAPS-D-6	+/-
Louisa County – Bumpass Fire Dept.	NAPS-D-7	+/-
Louisa County – Fred Hall	NAPS-D-8	+/-
Louisa County – Aspen Hill	NAPS-D-9	+/-
Louisa County – Route 685	NAPS-D-10	+/-
Louisa County – Route 700	NAPS-D-11	+/-
North Anna Power Station	NAPS-D-12	+/-
Pocahontas State Park (Control)	PSP-D-1	+/-
Radiological Health	ORH-D-1	+/-
Radiological Health	ORH-D-2	+/-

# COMMONWEALTH OF VIRGINIA

## DEPARTMENT OF HEALTH

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### OFFICE OF RADIOLOGICAL HEALTH

109 Governor Street, 7<sup>th</sup> Floor, Richmond, Virginia 23218-2448

Office (804) 864-8150

Fax (804) 864-8175

# BABCOCK & WILCOX

# Virginia Department of Health

## AIR PARTICULATE COMPOSITE SAMPLES

January 1, 2024 through December 31, 2024

Eastern Site Boundary – Ball field

### FIRST QUARTER REPORT

	Start	Date	Stop	Gross Alpha Activity pCi/meter <sup>3</sup>
<b>B&amp;W-A-1</b>				
1st	1-10-2024	-	1-16-2024	0.001 +/- 0.0006

### SECOND QUARTER REPORT

	Start	Date	Stop	Gross Alpha Activity pCi/meter <sup>3</sup>
<b>B&amp;W-A-1</b>				
2nd	4-3-2024	-	4-9-2024	0.001 +/- 0.0006

### THIRD QUARTER REPORT

	Start	Date	Stop	Gross Alpha Activity pCi/meter <sup>3</sup>
<b>B&amp;W-A-1</b>				
3rd				

### FOURTH QUARTER REPORT

	Start	Date	Stop	Gross Alpha Activity pCi/meter <sup>3</sup>
<b>B&amp;W-A-1</b>				
4th				

# Virginia Department of Health

## SOIL

January 1, 2024 through December 31, 2024

Location	Date	Distance & Direction	Type	Alpha Activity Ppm
<b>Eastern Site Boundary</b> <b>Ball field</b> <b>B&amp;W-S-1</b>		Site Boundary	Soil	
<b>James River Shoreline</b> <b>Near Six Mile Bridge</b> <b>“control”</b> <b>B&amp;W-S-2</b>		1.5 miles SW	Soil	

Soil samples collected annually.

Note: Uranium separation followed by alpha counting.

## SURFACE WATER

January 1, 2024 through December 31, 2024

Location	Date	Distance & Direction	Alpha Activity Ppb
<b>James River Shoreline</b> <b>Near Ball field at</b> <b>eastern site boundary</b> <b>B&amp;W-W-1</b>		Approx. 3 miles downstream	
<b>James River Shoreline</b> <b>Near Six Mile Bridge</b> <b>“control”</b> <b>B&amp;W-W-2</b>		Approx. 1.5 miles upstream	

Surface water samples collected annually.

Note: Uranium separation followed by alpha counting.

# Virginia Department of Health VEGETATION

January 1, 2024 through June 30, 2024

Eastern Site Boundary / James River Shoreline

Location	Date	Distance & Direction	Alpha Activity ppm
<b>Eastern site boundary Ball field B&amp;W-V-1</b>		Approx. 3 miles downstream	
<b>James River Shoreline off Rt. 460 "control" B&amp;W-V-2</b>		Approx. 4.5 Miles SW	

Vegetation collected annually.

Note: Uranium separation followed by alpha counting.

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF HEALTH

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OFFICE OF RADIOLOGICAL HEALTH  
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# EMERGENCY PREPAREDNESS



# EMERGENCY PREPAREDNESS

The Office of Radiological Health (ORH) located within the Virginia Department of Health (VDH) is one of the lead response agencies for emergencies involving the potential or actual release of radioactive materials. Overall, state level emergency response is described in the Commonwealth of Virginia Radiological Emergency Response Plan (COVRERP), which is developed and maintained by the Virginia Department of Emergency Management (VDEM). In addition to generic guidelines for responding to any major radiological emergency, the response procedures contain segments addressing response to several specific types of radiological incidents. This includes sections which provide information needed for response to Licensee and Transportation accidents. Other sections contain background information and response guidance for accidents at fixed nuclear facilities. Plans are also being developed to respond to possible radiological terrorist attacks, which may include detonation of a radiological dispersion device (RDD aka “dirty bomb”), an improvised nuclear device (IND), or a military grade nuclear warhead.

When responding to any radiological emergency, the primary tasks of the Office of Radiological Health are to locate, identify, and predict the impact of any radioactive materials released to the environment. Based on the predicted or known impact, ORH then recommends appropriate measures to protect the public. ORH would also be tasked with helping to supervise the cleanup of radiological contamination and ensuring the proper disposal of radioactive waste. An ORH duty officer maintains 24-hour coverage to provide initial assessment/assistance for local responders and may also initiate the mobilization/deployment of other trained staff to respond to a radiological emergency when needed.

Under the provisions of current Federal Emergency Management Agency (FEMA) regulations, ORH conducts or participates in periodic drills that are designed to provide team training and to test emergency plans and procedures. The scope of these drills ranges from receiving and acknowledging simulated emergency communications to full-scale team deployment.

Federal regulations for commercial nuclear power generating facilities stipulate that a full-scale exercise involving appropriate local government participation and testing all significant response elements must be conducted and evaluated every other year. Because there are two such facilities, Surry and North Anna Nuclear Power Stations, Commonwealth of Virginia agencies will perform exercise activities on a yearly basis, alternating between the sites each year.