

# CH2MHILL • BWXT West Valley, LLC

*West Valley Demonstration Project*

Ms. Angela M. Cooney, Contracting Officer  
U.S. Department of Energy  
550 Main St., Room 7-010  
Cincinnati, OH 45202

AC-PRES  
WD:2022:0013  
January 20, 2022

**SUBJECT:** Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2021, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2021 through December 31, 2021

**REFERENCES:** 1) Letter WR:2011:0061, John D. Rendall to C. S. Haugh, "State Pollutant Discharge Elimination System (SPDES) Schedule of Compliance Action for the Water Treatment Chemicals, SPDES Permit No. NY-0000793, West Valley Demonstration Project (WVDP)," dated December 20, 2011

2) Letter WR:2013:0033, John Rendall to Mark Jackson, "Notification of Changes to the West Valley Demonstration Project (WVDP) Wastewater Generation Activities in Accordance with 6 NYCRR 750-2.6(c); State Pollutant Discharge Elimination System (SPDES) Permit No. NY-0000973, U.S. Department of Energy (DOE), West Valley Demonstration Project (WVDP)," dated August 13, 2013

Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period December 1 through December 31, 2021 including the Net Iron calculation sheet has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

Also attached are the results of the storm water monitoring for the period of July 1, 2021 through December 31, 2021, and the Annual Review Certification of the Storm Water Pollution Prevention Plan/Best Management Practices (SWPPP/BMP).

If you have any questions, please contact William Kean at (716) 946-8825 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

Approval Obtained Electronically

John D. Rendall  
President & General Manager

JDR:WNK:bnj

**Attachments:** A) SPDES DMR for December 1 through December 31, 2021 Monitoring Period  
B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2021 Monitoring Period  
C) CHBWV Environmental Certification  
D) WVDP SPDES Permit "Special Conditions – Industry Best Management Practices," Permittee Certification of the Annual Review  
E) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP  
C. Chun, CHBWV  
L. K. Hollfelder, CHBWV  
W. N. Kean, CHBWV  
D. P. Klenk, CHBWV  
E. A. Lowes, CHBWV  
J. K. Mantione, CHBWV  
D. M. Martinet, CHBWV  
J. T. Pillittere, CHBWV (Public Reading Room)  
R. E. Steiner, CHBWV  
K. A. Wooley, CHBWV  
Letter Log (B. Jeffery), CHBWV  
CHBWV OITS #2130550

**Attachment A**

**SPDES DMR for December 1 – 31, 2021**

## SYNOPSIS

### **State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2021, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2021 through December 31, 2021**

The SPDES DMR for the December 1 through December 31, 2021 Monitoring Period is provided as Attachment A. There were no discharges at outfalls 001-M, 007-M, 116-M, Sum-N or internal outfall 01B-M during the monitoring period of December 1, 2021 through December 31, 2021. Please also note that there were no discharges at outfall 007-V during the 2021 calendar year as denoted on the specific Discharge Monitoring Reports (DMR).

CHBWV is also submitting the analytical results and data for the semi-annual storm water monitoring period of July 1, 2021 through December 31, 2021 as Attachment B. All storm water sampling results were within applicable limits specified on page 14 of 31 of the SPDES permit for oil & grease.

Storm water samples were collected on August 11, September 8, September 15, and October 26, 2021. The on-site pH measured near the site's rain gauge on each of these dates was: 6.8 SU; 6.8 SU; 6.9 SU; and 5.7 SU respectively.

Storm water sampling at outfalls S04 and S20 was completed on September 8, 2021, and although the duration between storm events was 12 hours (less than the normally required 72 hours), outfall S04 returned to base flow conditions, and outfall S20 was not flowing, prior to the start of sampling.

Storm water sampling that was then conducted on September 15, 2021 at outfall S14 and although the duration between storm events was 28 hours (less than the normally required 72 hours), there was no flow at the outfall prior to the start of sampling.

Storm water sampling at outfalls S12, S36 and S35 was completed on October 26, 2021 and although the duration between storm events was 13 hours (less than the normally required 72 hours), outfalls S12 and S36 had returned to base flow conditions and S35 was not flowing prior to the start of sampling.

In addition, semi-annual lead sampling was completed on October 26, 2021 at storm water outfall S43 located at the Live Fire Range with reported results of 0.0009 mg/L as compared to an action level of 0.006 mg/L.

Please note that, in accordance with the Schedule of Compliance sampling requirements contained on page 23 of 31 of the SPDES permit for Paraquat Dichloride Herbicide (Gramoxone Extra), the site used herbicides onsite on September 9, 2021 and September 29, 2021 and therefore, storm water outfalls that could be affected were sampled for Paraquat Dichloride on October 25, 2021 during the second semi-annual monitoring period.

<b>OUTFALL</b>	<b>DATE</b>	<b>PARAMETER</b>	<b>RESULT</b>	<b>UNITS</b>
S04	10/25/21	Paraquat Dichloride	< 0.0003	mg/L
S06	10/25/21	Paraquat Dichloride	< 0.0003	mg/L
S33	10/25/21	Paraquat Dichloride	< 0.0003	mg/L
S09	10/25/21	Paraquat Dichloride	< 0.0003	mg/L
S12	10/25/21	Paraquat Dichloride	< 0.0003	mg/L
S14	10/25/21	Paraquat Dichloride	<0.0003	mg/L
S17	10/25/21	Paraquat Dichloride	<0.0003	mg/L
S28	10/25/21	Paraquat Dichloride	<0.0003	mg/L
S20	10/25/21	Paraquat Dichloride	<0.0003	mg/L
S27	10/25/21	Paraquat Dichloride	<0.0003	mg/L

As required on page 30 of 31 under General Requirements, J.3, Water Treatment Chemicals (WTCs), the WVDP has not used any water treatment chemicals during 2021 and therefore we have not included a WTC Annual Report Form for 2021.

In accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP has completed the annual review of the BMP/SWPPP (Attachment C) a revision to the “Clean Water Act/State Pollutant Discharge Elimination System Best Management Practices and Storm Water Pollution Prevention Plan for the West Valley Demonstration Project” (WVDP-206) was not necessary as the document underwent a significant revision in order to cover the demolition activities of the WVDP’s Main Plant Process Building (MPPB). The complete document and the Notice of Intent (NOI) have been previously forwarded to the New York State Department of Environmental Conservation.

**SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2021**  
**NET IRON EFFLUENT CONCENTRATION CALCULATION**  
**WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973**

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$V1 = 0.000 \text{ L/month}$$

\*Note: There was no discharge at outfall 001 during this monitoring period.

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$$\text{OUTFALL 007} = M7 = \frac{(X1 + X2) V7}{2} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$V7 = 0.00 \text{ L/month}$$

\*Note: There was no discharge at outfall 007 during this monitoring period.

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$$\text{RAW WATER} = \text{MRW} = \frac{(X1 + X2 + X3 + X4) \text{VRW}}{4} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$X3 = 0.000 \text{ mg/L}$$

$$X4 = 0.000 \text{ mg/L}$$

$$\text{VRW} = 0.00 \text{ L/month}$$

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - \text{MRW}}{V1 + V7} = 0.00 \text{ mg/L}$$

**DMR Copy of Record**

<b>Permit</b>			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-A OUTFALL 001 ANNUAL
Facility:		Facility Location:	WEST VALLEY DEMONSTRATION PROJ 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 01/01/21 to 12/31/21	DMR Due Date:	01/28/22
Status:	NetDMR Validated		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
First Name:	Bryan C.	Title:	Director, USDOE-WVDP
Last Name:	Bower	Telephone:	716-942-4368

**No Data Indicator (NODI)**  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.00007	<	0.00007	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Permit Req.						Req Mon MO AVG <=	0.002 DAILY MX	19 - mg/L	01/YR - Annual	24 - COMP24			
					Value NODI													
34488	Trichlorofluoromethane	1 - Effluent Gross	0	--	Sample						<	0.0005	<	0.0005	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG <=	0.01 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB			
					Value NODI													
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample						<	0.0008	<	0.0008	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						<=	0.005 MO AVG	<=	0.01 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					Value NODI													
34668	Dichlorodifluoromethane	1 - Effluent Gross	0	--	Sample						<	0.0003	<	0.0003	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG <=	0.01 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB			
					Value NODI													
39337	.alpha.-BHC	1 - Effluent Gross	0	--	Sample						<	0.006	<	0.006	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						<=	0.01 MO AVG	Req Mon DAILY MX	28 - ug/L	01/YR - Annual		GR - GRAB	
					Value NODI													
39700	Hexachlorobenzene	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						<=	0.2 MO AVG	Req Mon DAILY MX	28 - ug/L	01/YR - Annual		GR - GRAB	
					Value NODI													
77819	Tri-n-butyl phosphate	1 - Effluent Gross	0	--	Sample						<	0.0008	<	0.0008	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB			
					Value NODI													
78247	Chromium, hexavalent tot recoverable	1 - Effluent Gross	0	--	Sample						<	0.005	<	0.005	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG <=	0.011 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB			
					Value NODI													
78356	2-Butanone	1 - Effluent Gross	0	--	Sample						<	0.002	<	0.002	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG <=	0.5 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB			
					Value NODI													
81551	Xylene [mix of m+o+p]	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG <=	0.05 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB			
					Value NODI													

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**  
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWW wastewater treatment plant operators is 0.01 mg/L.

**Attachments**

No attachments.

**Report Last Saved By**

**U.S. DEPT OF ENERGY**

User: william.kean@chbwv.com  
Name: William Kean  
E-Mail: william.kean@chbwv.com  
Date/Time: 2022-01-20 13:06 (Time Zone: -05:00)

**Report Last Signed By**

User: ELIZABETH.LOWES@CHBWV.COM  
Name: Elizabeth Lowes  
E-Mail: elizabeth.lowes@chbwv.com  
Date/Time: 2022-01-20 15:22 (Time Zone: -05:00)



DMR Copy of Record

<b>Permit</b>			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM
Facility:	WEST VALLEY DEMONSTRATION PROJ		
Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799		

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 12/01/21 to 12/31/21	DMR Due Date:	01/28/22
Status:	NetDMR Validated		

Considerations for Form Completion

<b>Principal Executive Officer</b>			
First Name:	Bryan C.	Title:	Director, USDOE-WVDP
Last Name:	Bower	Telephone:	716-942-4368

No Data Indicator (NODI)  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units	
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample													19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req.						Req Mon MO AVG	<=	22.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						>=	3.0 MINIMUM		Req Mon MAXIMUM						
					Value NODI						C - No Discharge		C - No Discharge							
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	10.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00400	pH	1 - Effluent Gross	0	--	Sample												12 - SU	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						>=	6.5 MINIMUM		<=	8.5 MAXIMUM					
					Value NODI						C - No Discharge		C - No Discharge							
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						<=	30.0 MO AVG	<=	45.0 DAILY MX						
					Value NODI						C - No Discharge		C - No Discharge							
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												25 - mL/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG	<=	0.3 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG	<=	15.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.1 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.4 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.15 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							



**DMR Copy of Record**

<b>Permit</b>			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-S OUTFALL 001 SEMI-ANNUAL
Facility:		Facility Location:	WEST VALLEY DEMONSTRATION PROJ 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 07/01/21 to 12/31/21	DMR Due Date:	01/28/22
Status:	NetDMR Validated		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
First Name:	Bryan C.	Title:	Director, USDOE-WVDP
Last Name:	Bower	Telephone:	716-946-4368

**No Data Indicator (NODI)**  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req. Value NODI	Quantity or Loading				Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2			
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--		<	0.002	<	0.002	19 - mg/L	0	02/YR - Twice Per Year	GR - GRAB			
						Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L			02/YR - Twice Per Year	GR - GRAB			
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--		=	0.014	=	0.014	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24			
						Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L			02/YR - Twice Per Year	24 - COMP24			
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--		<	0.0013	<	0.0013	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24			
						Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L			02/YR - Twice Per Year	24 - COMP24			
01094	Zinc, total recoverable	1 - Effluent Gross	0	--		<	0.0096	<	0.0096	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24			
						Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L			02/YR - Twice Per Year	24 - COMP24			
01114	Lead, total recoverable	1 - Effluent Gross	0	--		<	0.001	<	0.001	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24			
						Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L			02/YR - Twice Per Year	24 - COMP24			
01118	Chromium, total recoverable	1 - Effluent Gross	0	--		<	0.0016	<	0.0016	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24			
						Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L			02/YR - Twice Per Year	24 - COMP24			
01119	Copper, total recoverable	1 - Effluent Gross	0	--		<	0.0017	<	0.0017	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24			
						Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L			02/YR - Twice Per Year	24 - COMP24			
39410	Heptachlor	1 - Effluent Gross	0	--		<	0.006	<	0.006	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB			
						Req Mon DAILY MX	<=	0.01 MO AVG	28 - ug/L			02/YR - Twice Per Year	GR - GRAB			

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**  
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.

**Attachments**  
No attachments.

**Report Last Saved By**  
U.S. DEPT OF ENERGY

User: william.kean@chbwv.com  
Name: William Kean

E-Mail: william.kean@chbwv.com  
Date/Time: 2022-01-20 13:11 (Time Zone: -05:00)

**Report Last Signed By**

User: ELIZABETH.LOWES@CHBWV.COM  
Name: Elizabeth Lowes  
E-Mail: elizabeth.lowes@chbwv.com  
Date/Time: 2022-01-20 15:22 (Time Zone: -05:00)

## DMR Copy of Record

Permit																							
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY					Facility:	WEST VALLEY DEMONSTRATION PROJ														
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585					Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799														
Permitted Feature:	001 External Outfall	Discharge:	001-U OUTFALL 001 ACTION LEVELS ANNUAL																				
Report Dates & Status																							
Monitoring Period:	From 01/01/21 to 12/31/21		DMR Due Date:	01/28/22				Status:	NetDMR Validated														
Considerations for Form Completion																							
SEE PERMIT FOR REPORTING REQUIREMENTS																							
Principal Executive Officer																							
First Name:	Bryan C.		Title:	Director, USDOE-WVDP					Telephone:	716-942-4368													
Last Name:	Bower																						
No Data Indicator (NODI)																							
Form NODI:	--																						
Table Headers																							
Code	Parameter		Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type					
	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units			
01007	Barium, total [as Ba]	V - See Comments	0	--	Sample										=	0.05	19 - mg/L	0	01/YR - Annual	24 - COMP24			
					Permit Req.																<=	0.5 DAILY MX	19 - mg/L
					Value NODI																		
01097	Antimony, total [as Sb]	V - See Comments	0	--	Sample										<	0.0068	19 - mg/L	0	01/YR - Annual	24 - COMP24			
					Permit Req.																<=	1.0 DAILY MX	19 - mg/L
					Value NODI																		
32106	Chloroform	V - See Comments	0	--	Sample										<	0.0005	19 - mg/L	0	01/YR - Annual	GR - GRAB			
					Permit Req.																<=	0.3 DAILY MX	19 - mg/L
					Value NODI																		
Submission Note																							
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																							
Edit Check Errors																							
No errors.																							
Comments																							
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.																							
Attachments																							
No attachments.																							
Report Last Saved By																							
U.S. DEPT OF ENERGY																							
User:	william.kean@chbwv.com																						
Name:	William Kean																						
E-Mail:	william.kean@chbwv.com																						
Date/Time:	2022-01-20 13:11 (Time Zone: -05:00)																						
Report Last Signed By																							
User:	ELIZABETH.LOWES@CHBWV.COM																						
Name:	Elizabeth Lowes																						
E-Mail:	elizabeth.lowes@chbwv.com																						
Date/Time:	2022-01-20 15:22 (Time Zone: -05:00)																						

## DMR Copy of Record

Permit																			
Permit #:	NY0000973			Permittee:	U.S. DEPT OF ENERGY				Facility:	WEST VALLEY DEMONSTRATION PROJ									
Major:	Yes			Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585				Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799									
Permitted Feature:	001 External Outfall			Discharge:	001-V OUTFALL 001 ACTION LEVELS SEMI-ANNUAL														
Report Dates & Status																			
Monitoring Period:	From 07/01/21 to 12/31/21			DMR Due Date:	01/28/22				Status:	NetDMR Validated									
Considerations for Form Completion																			
SEE PERMIT FOR REPORTING REQUIREMENTS																			
Principal Executive Officer																			
First Name:	Bryan C.			Title:	Director, USDOE-WVDP				Telephone:	716-942-4368									
Last Name:	Bower																		
No Data Indicator (NODI)																			
Form NODI:	--																		
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01022	Boron, total [as B]	V - See Comments	0	--										=	0.044	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
														<=	2.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Sample									<	0.011	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01152	Titanium, total [as Ti]	V - See Comments	0	--										<=	0.65 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Sample									<	0.37	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
71870	Bromide [as Br]	V - See Comments	0	--										<=	5.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Sample														
					Permit Req.														
					Value NODI														
Submission Note																			
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																			
Edit Check Errors																			
No errors.																			
Comments																			
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.																			
Attachments																			
No attachments.																			
Report Last Saved By																			
U.S. DEPT OF ENERGY																			
User:	william.kean@chbvw.com																		
Name:	William Kean																		
E-Mail:	william.kean@chbvw.com																		
Date/Time:	2022-01-20 13:11 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	ELIZABETH.LOWES@CHBWV.COM																		
Name:	Elizabeth Lowes																		
E-Mail:	elizabeth.lowes@chbvw.com																		
Date/Time:	2022-01-20 15:22 (Time Zone: -05:00)																		

DMR Copy of Record

<b>Permit</b>			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	007 External Outfall	Discharge:	007-M SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER
Facility:	WEST VALLEY DEMONSTRATION PROJ		Facility Location:
		10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799	

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 12/01/21 to 12/31/21	DMR Due Date:	01/28/22
Status:	NetDMR Validated		

Considerations for Form Completion

<b>Principal Executive Officer</b>			
First Name:	Bryan C.	Title:	Director, USDOE-WVDP
Last Name:	Bower	Telephone:	716-942-4368

No Data Indicator (NODI)  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type					
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample																		
					Permit Req.								Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD					
					Value NODI												C - No Discharge	C - No Discharge					
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.								>=	3.0 MINIMUM		Req Mon MAXIMUM	19 - mg/L	02/30 - Twice Per Month	GR - GRAB				
					Value NODI												C - No Discharge	C - No Discharge					
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24			
					Value NODI												C - No Discharge	C - No Discharge					
00400	pH	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										>=	6.5 MINIMUM		<=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per Month	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample																		
					Permit Req.											<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L	02/30 - Twice Per Month	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Value NODI												C - No Discharge	C - No Discharge					
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG		Req Mon DAILY MX	03 - MGD	01/30 - Monthly	CN - CONTIN	
					Value NODI												C - No Discharge	C - No Discharge					
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					





## DMR Copy of Record

Parameter		Monitoring Location	Season #	Param. NODI	Quantity or Loading				Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type				
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
32106	Chloroform	1 - Effluent Gross	0	--															
					Sample Permit Req.														
					Value NODI														

**Permit**  
 Permit #: **NY0000973** | Permittee: **U.S. DEPT OF ENERGY** | Facility: **WEST VALLEY DEMONSTRATION PROJ**  
 Major: **Yes** | Permittee Address: **1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585** | Facility Location: **10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799**  
 Permitted Feature: **007 External Outfall** | Discharge: **007-V OUTFALL 007 ANNUAL MONITORING**

**Report Dates & Status**  
 Monitoring Period: **From 01/01/21 to 12/31/21** | DMR Due Date: **01/28/22** | Status: **NetDMR Validated**

**Considerations for Form Completion**

**Principal Executive Officer**  
 First Name: **Bryan C.** | Title: **Director, USDOE-WVDP** | Telephone: **716-942-4368**  
 Last Name: **Bower**

**No Data Indicator (NODI)**  
 Form NODI: **--**

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
 No errors.

**Comments**

**Attachments**  
 No attachments.

**Report Last Saved By**  
**U.S. DEPT OF ENERGY**

User: **william.kean@chbwv.com**  
 Name: **William Kean**  
 E-Mail: **william.kean@chbwv.com**  
 Date/Time: **2022-01-20 13:12 (Time Zone: -05:00)**

**Report Last Signed By**  
 User: **ELIZABETH.LOWES@CHBWV.COM**  
 Name: **Elizabeth Lowes**  
 E-Mail: **elizabeth.lowes@chbwv.com**  
 Date/Time: **2022-01-20 15:22 (Time Zone: -05:00)**

## DMR Copy of Record

Parameter		Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00056	Flow rate	1 - Effluent Gross	0	--	Sample													01/07 - Weekly	CN - CONTIN
					Permit Req.	Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d										
					Value NODI	C - No Discharge		C - No Discharge											
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample													02/BA - Twice Per Batch	GR - GRAB
					Permit Req.								Req Mon MO AVG	<=	50.0 DAILY MX	3M - ng/L			
					Value NODI								C - No Discharge		C - No Discharge				

**Permit**  
 Permit #: **NY0000973** | Permittee: **U.S. DEPT OF ENERGY** | Facility: **WEST VALLEY DEMONSTRATION PROJ**  
 Major: **Yes** | Permittee Address: **1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585** | Facility Location: **10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799**  
 Permitted Feature: **01B Internal Outfall** | Discharge: **01B-M MERCURY PRETREATMENT**

**Report Dates & Status**  
 Monitoring Period: **From 12/01/21 to 12/31/21** | DMR Due Date: **01/28/22** | Status: **NetDMR Validated**

**Considerations for Form Completion**

**Principal Executive Officer**  
 First Name: **Bryan C.** | Title: **Director, USDOE-WVDP** | Telephone: **716-942-4368**  
 Last Name: **Bower**

**No Data Indicator (NODI)**  
 Form NODI: **--**

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
 No errors.

**Comments**

**Attachments**  
 No attachments.

**Report Last Saved By**  
**U.S. DEPT OF ENERGY**

User: **william.kean@chbwv.com**  
 Name: **William Kean**  
 E-Mail: **william.kean@chbwv.com**  
 Date/Time: **2022-01-20 13:12 (Time Zone: -05:00)**

**Report Last Signed By**  
 User: **ELIZABETH.LOWES@CHBWV.COM**  
 Name: **Elizabeth Lowes**  
 E-Mail: **elizabeth.lowes@chbwv.com**  
 Date/Time: **2022-01-20 15:22 (Time Zone: -05:00)**

## DMR Copy of Record

Permit																				
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY						Facility:	WEST VALLEY DEMONSTRATION PROJ										
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585						Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799										
Permitted Feature:	116 Internal Outfall	Discharge:	116-M PSEUDO MON. POINT @FRANKS CRK																	
Report Dates & Status																				
Monitoring Period:	From 12/01/21 to 12/31/21		DMR Due Date:	01/28/22					Status:	NetDMR Validated										
Considerations for Form Completion																				
IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.																				
Principal Executive Officer																				
First Name:	Bryan C.		Title:	Director, USDOE-WVDP						Telephone:	716-942-4368									
Last Name:	Bower																			
No Data Indicator (NODI)																				
Form NODI:	--																			
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
Code	Name			Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units					
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Sample															
					Permit Req.							Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	CA - CALCTD		
					Value NODI											C - No Discharge		C - No Discharge		
Submission Note																				
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																				
Edit Check Errors																				
No errors.																				
Comments																				
Attachments																				
No attachments.																				
Report Last Saved By																				
U.S. DEPT OF ENERGY																				
User:	william.kean@chbwv.com																			
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Date/Time:	2022-01-20 15:22 (Time Zone: -05:00)																			

## DMR Copy of Record

Permit																			
Permit #:	NY0000973			Permittee:	U.S. DEPT OF ENERGY				Facility:	WEST VALLEY DEMONSTRATION PROJ									
Major:	Yes			Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585				Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799									
Permitted Feature:	SUM Internal Outfall			Discharge:	SUM-N SUM OF OUTFALLS 1 & 7														
Report Dates & Status																			
Monitoring Period:	From 12/01/21 to 12/31/21			DMR Due Date:	01/28/22				Status:	NetDMR Validated									
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	Bryan C.			Title:	Director, USDOE-WVDP				Telephone:	716-942-4368									
Last Name:	Bower																		
No Data Indicator (NODI)																			
Form NODI:	--																		
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading						Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name			Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units				
01045	Iron, total [as Fe]	2 - Effluent Net	0	--															
				Sample Permit Req.									Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L		01/30 - Monthly	CA - CALCTD
				Value NODI									C - No Discharge		C - No Discharge				
Submission Note																			
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																			
Edit Check Errors																			
No errors.																			
Comments																			
Attachments																			
												Name	Type	Size					
												WVDP_December_2021_Net_Iron_Calculation.pdf	pdf	228093.0					
Report Last Saved By																			
<b>U.S. DEPT OF ENERGY</b>																			
User:	william.kean@chbwv.com																		
Name:	William Kean																		
E-Mail:	william.kean@chbwv.com																		
Date/Time:	2022-01-20 13:13 (Time Zone: -05:00)																		
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User:	ELIZABETH.LOWES@CHBWV.COM																		
Name:	Elizabeth Lowes																		
E-Mail:	elizabeth.lowes@chbwv.com																		
Date/Time:	2022-01-20 15:22 (Time Zone: -05:00)																		

**Attachment B**

**Storm Water Discharge Monitoring Results for  
July 1 through December 31, 2021  
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 1, OUTFALL S04  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab	Flow-weighted Composite		
Group A Parameters	pH	7.8	S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	3.7		N.R.	15 mg/L
	BOD-5	18		11	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	270		96	
	Total Dissolved Solids (TDS)	540		1300	
	Phosphorus, Total	0.19		0.13	
Group B Parameters	Aluminum	4.8		3.1	
	Iron	7.8		3.8	
	Copper, Total Recoverable (TR)	0.013		0.0089	
	Lead (TR)	0.014		0.0069	
	Zinc (TR)	0.11		0.060	
Group C Parameters	Total Nitrogen (as N)	2.6		1.8	
	TKN	2.0		1.3	
	Nitrate Nitrogen (as N)	0.55		0.48	
	Nitrite Nitrogen (as N)	0.033		0.027	
	Ammonia Nitrogen (as NH3)	0.047		0.12	
	Cadmium, TR	0.00018		0.000082	
	Chromium, TR	0.0076		0.0037	
	Hexavalent Chromium, TR	<0.0050		< 0.0050	
	Selenium, TR	0.00085		< 0.00044	
	Vanadium, TR	0.0063		0.0042	
	Surfactant (as LAS)	N.R.		N.R.	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	N.R.		N.R.	
	Sulfide	N.R.		N.R.	
Paraquat Dichloride	< 0.0003		N.R.		
Flow	Total Flow, gallons	N.R.		310,000	
	Maximum Flow rate, gallons per minute	8,000		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/11/21		08/11/21	
	Duration of storm event, in minutes	N.R.		330	Rain started at 0700 EDT on 8/11/21 and ended at 1230 EDT on 8/11/21.
	Date and Time of sample collection	08/11/21 0705		08/11/21 0950	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		0.15	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		227	Precipitation of 0.67 inches was recorded on 8/1/21 at 2030 EDT. Outfall was at base flow conditions at time of sampling.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 2, OUTFALL S33  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab	Flow-weighted Composite		
Group A Parameters	pH	7.3	S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	1.9		N.R.	15 mg/L
	BOD-5	4.0		7.5	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	350		230	
	Total Dissolved Solids (TDS)	1,200		540	
	Phosphorus, Total	0.74		0.85	
Group B Parameters	Aluminum	4.8		1.6	
	Iron	27		27	
	Copper, Total Recoverable (TR)	0.011		0.0044	
	Lead (TR)	0.021		0.0050	
	Zinc (TR)	0.096		0.042	
Group C Parameters	Total Nitrogen (as N)	N.R.		N.R.	
	TKN	N.R.		N.R.	
	Nitrate Nitrogen (as N)	N.R.		N.R.	
	Nitrite Nitrogen (as N)	N.R.		N.R.	
	Ammonia Nitrogen (as NH3)	N.R.		N.R.	
	Cadmium, TR	N.R.		N.R.	
	Chromium, TR	N.R.		N.R.	
	Hexavalent Chromium, TR	N.R.		N.R.	
	Selenium, TR	N.R.		N.R.	
	Vanadium, TR	N.R.		N.R.	
	Surfactant (as LAS)	0.072		0.20	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	N.R.		N.R.	
	Sulfide	N.R.		N.R.	
	Paraquat Dichloride	< 0.0003		N.R.	
Flow	Total Flow, gallons	N.R.		46,000	
	Maximum Flow rate, gallons per minute	320		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	09/08/21		09/08/21	Rain started at 0930 EDT on 09/08/21 and ended at 1530 EDT on 09/08/21.
	Duration of storm event, in minutes	N.R.		360	
	Date and Time of sample collection	09/08/21 0930		09/08/21 1220	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		0.37	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		12	

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 3, OUTFALL S12  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L, Mercury, total in ng/L via method 1631		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	6.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.7	N.R.	15 mg/L
	BOD-5	< 1.0	1.2	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	4.0	2.2	
	Total Dissolved Solids (TDS)	1300	1200	
	Phosphorus, Total	0.041	0.028	
Group B Parameters	Aluminum	0.12	0.076	
	Iron	0.40	0.26	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	< 0.0033	< 0.0033	
	Zinc (TR)	0.012	0.011	
Group C Parameters	Total Nitrogen (as N)	< 1.2	< 1.3	
	TKN	0.39	0.39	
	Nitrate Nitrogen (as N)	0.53	0.57	
	Nitrite Nitrogen (as N)	< 0.33	< 0.33	
	Ammonia Nitrogen (as NH3)	0.094	0.079	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	< 0.0000067	< 0.0000062	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	2.5	N.R.	
Paraquat Dichloride	< 0.0003	N.R.		
Flow	Total Flow, gallons	N.R.	160,000	
	Maximum Flow rate, gallons per minute	970	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/26/21	10/26/21	
	Duration of storm event, in minutes	N.R.	1125	Rain started at 0600 EDT on 10/26/21 and ended at 0045 EDT on 10/27/21.
	Date and Time of sample collection	10/26/21 0940	10/26/21 1230	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An additional 0.37 inches fell after sampling was completed for a storm total of 0.76 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	13	Precipitation of 0.24 inches was recorded on 10/25/21 at 1755 EDT. Outfall was at base flow conditions upon arrival.



**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 4, OUTFALL S34 / DUPLICATE**

**Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.2 / 7.2 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.7 / 2.4	N.R.	15 mg/L
	BOD-5	3.1 / 2.7	2.4	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	470 / 420	350	
	Total Dissolved Solids (TDS)	290 / 370	250	
	Phosphorus, Total	0.57 / 0.74	0.31	
Group B Parameters	Aluminum	12 / 11	7.7	
	Iron	15 / 16	8.2	
	Copper, Total Recoverable (TR)	0.023 / 0.024	0.014	
	Lead (TR)	0.070 / 0.072	0.043	
	Zinc (TR)	0.32 / 0.29	0.16	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.069 / 0.068	0.065	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	120,000	
	Maximum Flow rate, gallons per minute	3,000	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	9/8/21	9/8/21	
	Duration of storm event, in minutes	N.R.	360	Rain started at 0930 EDT on 9/8/21 and ended at 1530 EDT on 9/8/21.
	Date and Time of sample collection	9/8/21 0920	9/8/21 1210	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.37	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	12	Precipitation of 0.15 inches was recorded on 9/7/21 at 2115 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 5, OUTFALL S14  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab	Flow-weighted Composite		
Group A Parameters	pH	7.4	S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.1		N.R.	15 mg/L
	BOD-5	6.1		8.4	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	49		25	
	Total Dissolved Solids (TDS)	730		650	
	Phosphorus, Total	0.21		0.11	
Group B Parameters	Aluminum	0.43		0.74	
	Iron	8.2		2.5	
	Copper, Total Recoverable (TR)	0.0016		0.0019	
	Lead (TR)	0.0025		0.0014	
	Zinc (TR)	0.0083		0.0061	
Group C Parameters	Total Nitrogen (as N)	< 2.7		< 1.7	
	TKN	2.7		1.6	
	Nitrate Nitrogen (as N)	< 0.020		< 0.020	
	Nitrite Nitrogen (as N)	0.027		0.035	
	Ammonia Nitrogen (as NH3)	0.037		0.020	
	Cadmium, TR	N.R.		N.R.	
	Chromium, TR	N.R.		N.R.	
	Hexavalent Chromium, TR	N.R.		N.R.	
	Selenium, TR	N.R.		N.R.	
	Vanadium, TR	< 0.0012		0.0019	
	Surfactant (as LAS)	0.043		0.059	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	2.0		0.3	
	Sulfide	< 0.67		< 0.67	
	Paraquat Dichloride	< 0.0003		N. R.	
Flow	Total Flow, gallons	N.R.		1,000	
	Maximum Flow rate, gallons per minute	10		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	9/15/21		9/15/21	
	Duration of storm event, in minutes	N.R.		1,170	Rain started at 0300 EDT on 9/15/21 and ended at 1330 EDT on 9/15/21.
	Date and Time of sample collection	9/15/21 1210		9/15/21 1500	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		0.51	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		28	Precipitation of 0.50 inches was recorded on 9/13/21 at 2300 EDT. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 6, OUTFALL S36  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.7	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	< 4.0	< 4.0	
	Total Dissolved Solids (TDS)	190	160	
	Phosphorus, Total	0.0071	0.028	
Group B Parameters	Aluminum	< 0.060	0.26	
	Iron	0.080	0.24	
	Copper, Total Recoverable (TR)	0.00059	0.00086	
	Lead (TR)	< 0.00017	0.00032	
	Zinc (TR)	0.0063	0.0065	
Group C Parameters	Total Nitrogen (as N)	< 0.30	< 0.31	
	TKN	< 0.19	< 0.19	
	Nitrate Nitrogen (as N)	0.089	0.092	
	Nitrite Nitrogen (as N)	< 0.025	< 0.025	
	Ammonia Nitrogen (as NH3)	< 0.0090	< 0.0090	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	< 0.0012	< 0.0012	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.67	< 0.67	
Paraquat Dichloride	N.R.	N.R.		
Flow	Total Flow, gallons	N.R.	11,000	
	Maximum Flow rate, gallons per minute	75	N.R.	
	Method of flow measurement	Bucket & Stopwatch		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/26/21	10/26/21	
	Duration of storm event, in minutes	N.R.	180	Rain started at 0600 EDT on 10/26/21 and ended at 0045 EDT on 10/27/21.
	Date and Time of sample collection	10/26/21 0930	10/26/21 1220	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An Additional 0.37 inches was recorded after sampling was completed for a storm total of 0.76 inches
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	13	Precipitation of 0.24 inches was recorded on 10/25/21 at 1715 EDT. Outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 7, OUTFALL S20  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	6.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	3.9	N.R.	15 mg/L
	BOD-5	13	5.7	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	52	8.4	
	Total Dissolved Solids (TDS)	6.0	< 4.0	
	Phosphorus, Total	0.12	0.012	
Group B Parameters	Aluminum	0.60	0.15	
	Iron	0.89	0.19	
	Copper, Total Recoverable (TR)	0.0026	0.0012	
	Lead (TR)	0.0014	0.00053	
	Zinc (TR)	0.012	0.0049	
Group C Parameters	Total Nitrogen (as N)	2.5	1.4	
	TKN	1.9	1.0	
	Nitrate Nitrogen (as N)	0.53	0.40	
	Nitrite Nitrogen (as N)	0.029	0.046	
	Ammonia Nitrogen (as NH3)	0.82	0.55	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.67	< 0.67	
Paraquat Dichloride	< 0.0003	N.R.		
Flow	Total Flow, gallons	N.R.	53,000	
	Maximum Flow rate, gallons per minute	700	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	8/11/21	8/11/21	
	Duration of storm event, in minutes	N.R.	330	Rain started at 0700 EDT on 8/11/21 and ended at 1230 EDT on 8/11/21.
	Date and Time of sample collection	8/11/21 0700	8/11/21 0930	
	Sampling Duration (Minutes)	Instantaneous	140	
	Total rainfall during event, in inches	N.R.	0.15	.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	227	Precipitation of 0.67 inches was recorded on 8/1/21 at 2030 EDT. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 8, OUTFALL S35  
Monitoring Period: July 1 through December 31, 2021**

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	6.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.8	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	68	14	
	Total Dissolved Solids (TDS)	440	290	
	Phosphorus, Total	0.12	< 0.0050	
Group B Parameters	Aluminum	3.0	1.0	
	Iron	2.7	0.62	
	Copper, Total Recoverable (TR)	0.0034	0.0019	
	Lead (TR)	0.0062	0.0012	
	Zinc (TR)	0.028	0.016	
Group C Parameters	Total Nitrogen (as N)	< 1.5	< 0.38	
	TKN	0.97	< 0.19	
	Nitrate Nitrogen (as N)	0.47	0.16	
	Nitrite Nitrogen (as N)	< 0.025	< 0.025	
	Ammonia Nitrogen (as NH3)	0.013	< 0.0090	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	0.050	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Paraquat Dichloride	N.R.	N.R.		
Flow	Total Flow, gallons	N.R.	24,000	
	Maximum Flow rate, gallons per minute	230	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/26/21	10/26/21	
	Duration of storm event, in minutes	N.R.	1,125	Rain started at 0600 EDT on 10/26/21 and ended at 0045 EDT on 10/27/21.
	Date and Time of sample collection	10/26/21 0940	10/26/21 1220	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.39	An Additional 0.37 inches was recorded after sampling was completed for a storm total of 0.76 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	13	Precipitation of 0.24 inches was recorded on 10/25/21 at 1755 EDT. There was no flow at outfall upon arrival.