

# CH2MHILL • BWXT West Valley, LLC

*West Valley Demonstration Project*

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

AC-PRES  
WD:2025:0041  
January 16, 2025

ATTENTION: Jennifer Dundas

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, 2024, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2024, through December 31, 2024

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. Splitt:

This letter is submitted for Contracting Officer Representative's approval of the SPDES DMR for the reporting period December 1 through December 31, 2024, including the Net Iron calculation sheet, which 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, 2024, through December 31, 2024, 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) 942-4865 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

Jason L. Casper  
President and General Manager

JLC:WNK:mlv

Attachments: A) SPDES DMR for December 1 through December 31, 2024, Monitoring Period  
B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2024, 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: Wet@dec.ny.gov  
B. C. Bower, DOE-WVDP  
J. T. DesMarais, DOE-WVDP  
W. T. Frederick, DOE-WVDP  
S. A. Cherry, CHBWV  
B. D. Gertz, CHBWV  
L. K. Hollfelder, CHBWV  
W. N. Kean, CHBWV  
E. A. Lowes, CHBWV  
J. K. Mantione, CHBWV  
D. M. Martinet, CHBWV  
J. T. Pillittere, CHBWV (Public Reading Room)  
R. E. Steiner, CHBWV  
Letter Log (M. Varner), CHBWV  
Records, CHBWV  
CHBWV OITS #2230374

**Attachment A**

**SPDES DMR for December 1 – 31, 2024**

## SYNOPSIS

### **State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2024, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2024, through December 31, 2024**

The SPDES DMR for December 1 through December 31, 2024, 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, 2024, through December 31, 2024. Please also note that there were no discharges at outfall 007-V or 007-W during the 2024 calendar year as denoted on the specific Discharge Monitoring Reports (DMRs). Finally, we are also submitting the DMR for outfall 001-W for the reporting period of October 1, 2024, through December 31, 2024.

CHBWV is also submitting the analytical results and data for the semi-annual storm water monitoring period of July 1, 2024, through December 31, 2024, 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 6, October 14, October 29, November 6, and November 26, 2024. The on-site pH measured near the site's rain gauge on each of these dates was: 5.3 SU; 6.5 SU; 4.6 SU; 7.2 SU; and 7.0 SU, respectively.

Storm water sampling at outfalls S04 and S34 was completed on August 6, 2024, although the duration between storm events of 57 hours was less than the normally required 72 hours. Outfalls S04 and S34 had base flow upon arrival and the start of sampling.

Storm water sampling at outfalls S14 and S35 was completed on October 14, 2024, although the duration between storm events of 7 hours was less than the normally required 72 hours. Outfall S14 and S35 had flow upon arrival and the start of sampling.

Storm water sampling at outfalls S12 and S39 was completed on November 26, 2024, although the duration between storm events of 50 hours was less than the normally required 72 hours. S12 was slightly above base flow conditions and S39 had a very slight flow upon arrival and the start of sampling.

In addition, outfall S43 was sampled for semi-annual lead that was completed on November 26, 2024, at the Live Fire Range. The reported result for lead of 0.0011 mg/L (first flush) was below the 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 on June 10, 11, and 12 and September 16 and 17, 2024, and therefore storm water outfalls that could be affected were sampled for Paraquat Dichloride on July 11, 2024, September 23 and 24, 2024, during the second semi-annual monitoring period.

OUTFALL	PARAMETER	RESULT	UNITS
S04	Paraquat Dichloride	< 0.00013 / < 0.00013	mg/L
S06	Paraquat Dichloride	0.00022 / 0.0029	mg/L
S33	Paraquat Dichloride	< 0.00021 / < 0.00013	mg/L
S09	Paraquat Dichloride	< 0.00013 / < 0.00013	mg/L
S12	Paraquat Dichloride	< 0.00013 / < 0.00013	mg/L
S34	Paraquat Dichloride	< 0.00013 / < 0.00013	mg/L
S17	Paraquat Dichloride	< 0.00021 / < 0.00013	mg/L
S28	Paraquat Dichloride	< 0.00016 / < 0.00013	mg/L
S37	Paraquat Dichloride	< 0.00013 / < 0.00013	mg/L
S20	Paraquat Dichloride	< 0.00013 / < 0.00013	mg/L
S27	Paraquat Dichloride	< 0.00021 / < 0.00013	mg/L
S35	Paraquat Dichloride	< 0.00013 / < 0.00013	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 2024 and therefore we have not included a WTC Annual Report Form for 2024.

In accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP has completed the annual review of the BMP which is included as part of the site document “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). As part of the annual review process, it was determined that a revision was not required at this time.

**SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2024**  
**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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$$\text{RAW WATER} = \text{MRW} = \frac{(X1 + X2 + X3 + X4) \text{VRW}}{4} = 0.00 \text{ mg/month}$$

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

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

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

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

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

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

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

001  
External Outfall

Discharge:

001-A  
OUTFALL 001 ANNUAL

Report Dates & Status

Monitoring Period:

From 01/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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		
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.00007	<	0.00007	19 - mg/L	0	01/YR - Annual	24 - 24 Hour Composite
					Permit Req.								Req Mon MO AVG	<=	0.002 DAILY MX	19 - mg/L		01/YR - Annual	24 - 24 Hour Composite
					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							<	0.0004	<	0.0004	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							<	0.007	<	0.007	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							<	0.0006	<	0.0006	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	<	0.011	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													
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**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) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. 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 CHBWV Environmental Services is 0.02 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:2025-01-16 07:32 (Time Zone: -05:00)

**Report Last Signed By**

User:ELIZABETH.LOWES@CHBWV.COM

Name:Elizabeth Lowes

E-Mail:elizabeth.lowes@chbwv.com

Date/Time:2025-01-16 07:51 (Time Zone: -05:00)



EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

001  
External Outfall

Discharge:

001-M  
OUTFALL 001 MONTHLY PROC WW, GW, STORM

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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			
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	GR - Grab
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L			
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	GR - Grab
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L			
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			

					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		02/BA - Twice Per Batch	24 - 24 Hour Composite	
					Value NODI										C - No Discharge		C - No Discharge					
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										Req Mon MO AVG	<=	0.4 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite	
					Value NODI										C - No Discharge		C - No Discharge					
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										Req Mon MO AVG	<=	0.15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite	
					Value NODI										C - No Discharge		C - No Discharge					
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab	
					Value NODI										C - No Discharge		C - No Discharge					
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										Req Mon MO AVG	<=	0.004 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab	
					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/BA - Twice Per Batch	24 - 24 Hour Composite	
					Value NODI										C - No Discharge		C - No Discharge					
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample																	
					Permit Req.									<=	2.0 MO AVG	<=	4.0 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite	
					Value NODI										C - No Discharge		C - No Discharge					
01128	Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab	
					Value NODI										C - No Discharge		C - No Discharge					
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - 24 Hour Composite
					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										02/BA - Twice Per Batch	CN - Continuous	
					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/BA - Once Per Batch	GR - Grab	
					Value NODI										C - No Discharge		C - No Discharge					
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	GR - Grab	
					Value NODI										C - No Discharge		C - No Discharge					
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample																	
					Permit Req.										<=	50.0 MO AVG		Req Mon DAILY MX	3M - ng/L		01/BA - Once Per Batch	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge					
81646	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample																	
					Permit Req.											Req Mon MO AVG	<=	0.04 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					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**

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) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. 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 CHBWV Environmental Services is 0.02 mg/L.

**Attachments**

Name	Type	Size
WVDP_2024_Permittee_Certificate_of_Annual_Review.pdf	pdf	274554.0
WVDP_December_2024_Synopsis.pdf	pdf	72441.0
WVDP_July_2024_December_2024_Storm_Water_Data.pdf	pdf	133679.0

**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:	2025-01-16 07:32 (Time Zone: -05:00)
<i>Report Last Signed By</i>	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-01-16 07:51 (Time Zone: -05:00)

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Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

001  
External Outfall

Discharge:

001-S  
OUTFALL 001 SEMI-ANNUAL

Report Dates & Status

Monitoring Period:

From 07/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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			
00722	Cyanide, free [amenable to chlorination]	1 - Effluent Gross	0	--	Sample							<	0.005	<	0.005	19 - mg/L	0	02/YR - Twice Per Year	GR - Grab	
					Permit Req.								Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L				
					Value NODI															
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample							=	0.025	=	0.025	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite	
					Permit Req.								Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L				
					Value NODI															
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample							<	0.0034	<	0.0034	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite	
					Permit Req.								Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L				
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.0039	<	0.0039	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite	
					Permit Req.								Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L				
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.0002	<	0.0002	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite	
					Permit Req.								Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L				
					Value NODI															
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.0012	<	0.0012	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite	
					Permit Req.								Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L				
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.00073	<	0.00073	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite	
					Permit Req.								Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L				
					Value NODI															
39410	Heptachlor	1 - Effluent Gross	0	--	Sample							<	0.006	<	0.006	28 - ug/L	0	02/YR - Twice Per Year	GR - Grab	
					Permit Req.							<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/L				
					Value NODI															

Submission Note

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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) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. 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 CHBWV Environmental Services is 0.02 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:	2025-01-16 07:32 (Time Zone: -05:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-01-16 07:51 (Time Zone: -05:00)

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Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
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 01/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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			
01007	Barium, total [as Ba]	V - See Comments	0	--	Sample										=	0.04	19 - mg/L	0	01/YR - Annual	24 - 24 Hour Composite
					Permit Req.										<=	0.5 DAILY MX	19 - mg/L		01/YR - Annual	24 - 24 Hour Composite
					Value NODI															
01097	Antimony, total [as Sb]	V - See Comments	0	--	Sample										<	0.0078	19 - mg/L	0	01/YR - Annual	24 - 24 Hour Composite
					Permit Req.										<=	1.0 DAILY MX	19 - mg/L		01/YR - Annual	24 - 24 Hour Composite
					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		01/YR - Annual	GR - Grab
					Value NODI															

Submission Note

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Edit Check Errors

No errors.

Comments

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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:

2025-01-16 07:33 (Time Zone: -05:00)

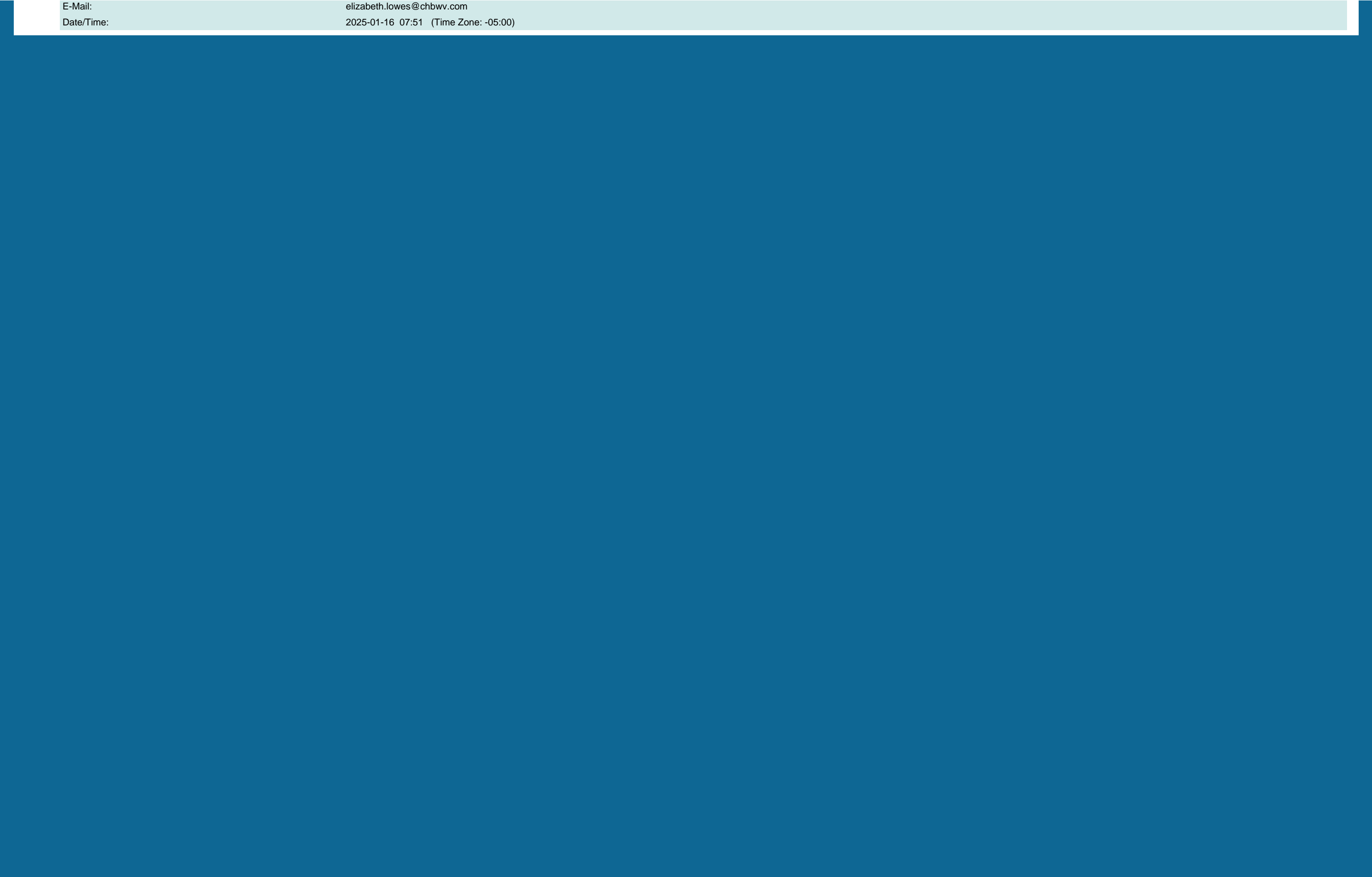
Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes



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Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
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 07/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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			
01022	Boron, total [as B]	V - See Comments	0	--	Sample										=	0.057	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite
					Permit Req.										<=	2.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - 24 Hour Composite
					Value NODI															
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample										<	0.0011	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite
					Permit Req.										<=	0.65 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - 24 Hour Composite
					Value NODI															
71870	Bromide [as Br]	V - See Comments	0	--	Sample										<	0.37	19 - mg/L	0	02/YR - Twice Per Year	24 - 24 Hour Composite
					Permit Req.										<=	5.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - 24 Hour Composite
					Value NODI															

Submission Note

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Edit Check Errors

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Comments

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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:

2025-01-16 07:33 (Time Zone: -05:00)

Report Last Signed By

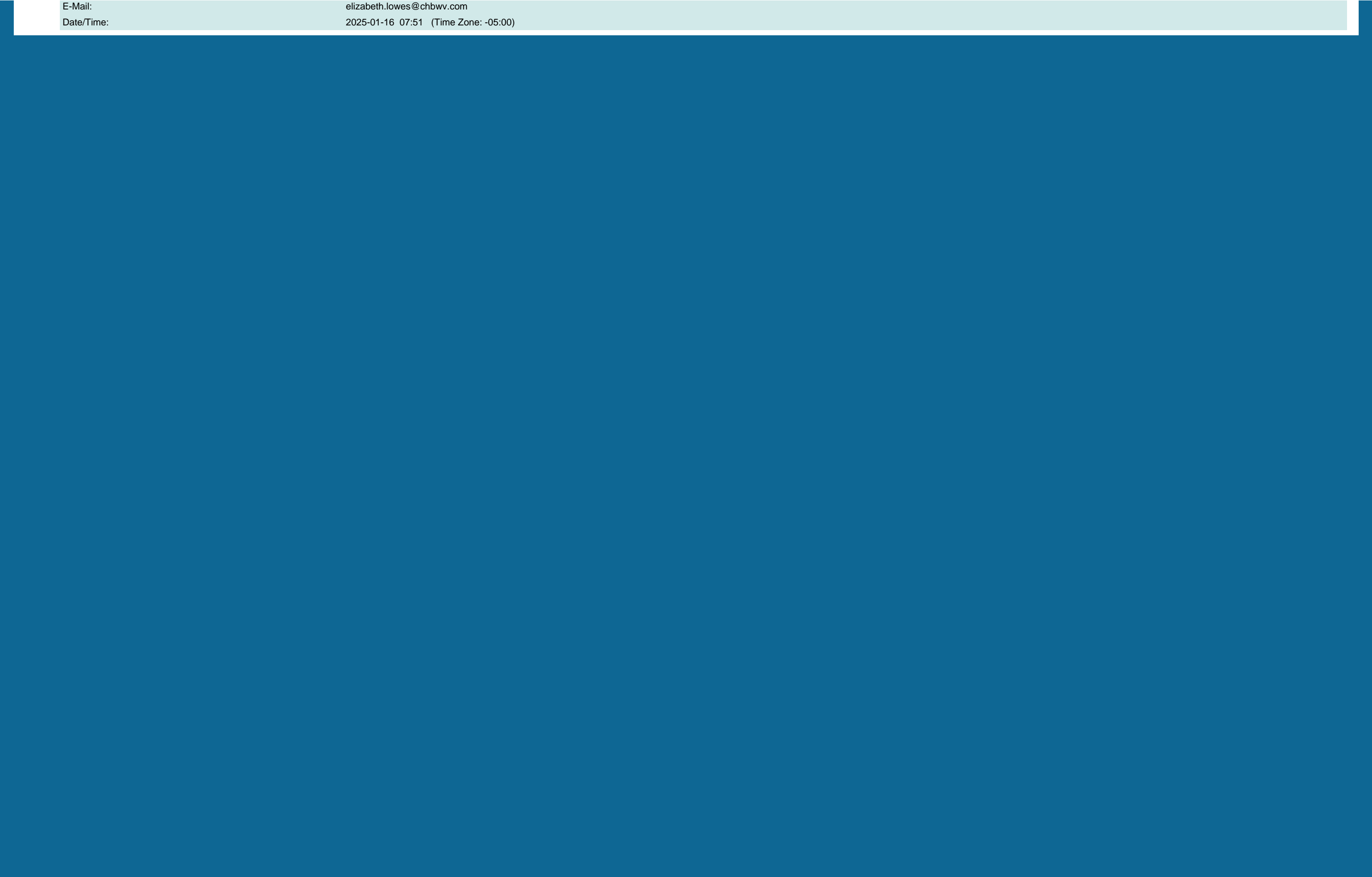
User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes





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Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

001  
External Outfall

Discharge:

001-W  
OUTFALL 001 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

02/28/25

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

First Name:

Bryan

Last Name:

Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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				
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample										=	0.3	2F - tox acute	0	01/90 - Quarterly	24 - 24 Hour Composite	
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - 24 Hour Composite	
					Value NODI																
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample											=	1.0	2G - tox chronic	0	01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.											<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - 24 Hour Composite
					Value NODI																
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample														01/90 - Quarterly	24 - 24 Hour Composite	
					Permit Req.											<=	0.3 MAXIMUM	2F - tox acute			
					Value NODI												9 - Conditional Monitoring - Not Required This Period				
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample														01/90 - Quarterly	24 - 24 Hour Composite	
					Permit Req.											<=	1.0 MAXIMUM	2G - tox chronic			
					Value NODI												9 - Conditional Monitoring - Not Required This Period				

Submission Note

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Edit Check Errors

No errors.

Comments

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Attachments

Name	Type	Size
WVDP_November_2024_WET_Final_Report.pdf	pdf	2301990.0

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:	2025-01-16 07:33 (Time Zone: -05:00)
<b>Report Last Signed By</b>	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-01-16 07:51 (Time Zone: -05:00)

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Permit

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NY0000973  
Yes

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Permittee Address:

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1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

007  
External Outfall

Discharge:

007-M  
SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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			
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L			
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - 24 Hour Composite
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L			
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			

					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 - 24 Hour Composite
					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 - Continuous
					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			
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample														
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge			
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample														
					Permit Req.									Req Mon MO AVG	<=	50.0 DAILY MX	3M - ng/L	01/30 - Monthly	GR - Grab
					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

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2025-01-16 07:33 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2025-01-16 07:51 (Time Zone: -05:00)

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Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 01/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan

Last Name:

Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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		
32106	Chloroform	1 - Effluent Gross	0	--	Sample													01/YR - Annual	GR - Grab
					Permit Req.										<=	0.2 DAILY MX	19 - mg/L		
					Value NODI											C - No Discharge			

Submission Note

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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:

2025-01-16 07:33 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2025-01-16 07:51 (Time Zone: -05:00)

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Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

007  
External Outfall

Discharge:

007-W  
OUTFALL 007 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

02/28/25

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

First Name:

Bryan

Last Name:

Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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		
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample													01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		
					Value NODI											C - No Discharge			
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample													01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		
					Value NODI											C - No Discharge			
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample													01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		
					Value NODI											C - No Discharge			
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample													01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		
					Value NODI											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

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2025-01-16 07:34 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM





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Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan

Last Name:

Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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			
00056	Flow rate	1 - Effluent Gross	0	--	Sample														01/07 - Weekly	CN - Continuous
					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				

Submission Note

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Edit Check Errors

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Comments

Attachments

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Report Last Saved By

U.S. DEPT OF ENERGY

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william.kean@chbwv.com

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2025-01-16 07:34 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2025-01-16 07:51 (Time Zone: -05:00)

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Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

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

Last Name:

Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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													02/DS - Twice Per Discharge	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		
					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

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2025-01-16 07:34 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2025-01-16 07:51 (Time Zone: -05:00)

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Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
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 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:  
Last Name:

Bryan  
Bower

Title:

Director-WVDP-DOE

Telephone:

716-942-4368

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														01/30 - Monthly	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L			
					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_2024_Net_Iron_Calculation.pdf	pdf	63759.0

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:

2025-01-16 07:34 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2025-01-16 07:51 (Time Zone: -05:00)

**Attachment B**

**Storm Water Discharge Monitoring Results for  
July 1 through December 31, 2024 Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 1, OUTFALL S04  
Monitoring Period: July 1 through December 31, 2024**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	13	7.2	
	Total Dissolved Solids (TDS)	730	430	
	Phosphorus, Total	0.044	0.031	
Group B Parameters	Aluminum	0.60	0.59	
	Iron	1.1	0.80	
	Copper, Total Recoverable (TR)	0.016	0.0028	
	Lead (TR)	0.0030	0.0011	
	Zinc (TR)	0.0081	0.0095	
Group C Parameters	Total Nitrogen (as N)	< 0.65	0.70	
	TKN	0.61	0.27	
	Nitrate Nitrogen (as N)	< 0.020	0.41	
	Nitrite Nitrogen (as N)	< 0.020	0.020	
	Ammonia Nitrogen (as NH3)	0.020	0.022	
	Cadmium, TR	< 0.000079	< 0.000079	
	Chromium, TR	< 0.0012	0.0013	
	Hexavalent Chromium, TR	< 0.0050	< 0.0050	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	< 0.0019	< 0.0019	
	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	< 0.00013 < 0.00013	N.R.	
Flow	Total Flow, gallons	N.R.	260,000	
	Maximum Flow rate, gallons per minute	2,400	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/06/24	08/06/24	
	Duration of storm event, in minutes	N.R.	1,160	Rain started at 0030 EST on 8/06/24 and ended at 1950 EST on 8/06/24.
	Date and Time of sample collection	08/06/24 1140	08/06/24 1425	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.16	An additional 0.08 inches was recorded after sampling was completed for a storm total of 0.24 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	57	0.21 inches was recorded on 8/03/24 at 1520 EST. The outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 2, OUTFALL S33**  
**Monitoring Period: July 1 through December 31, 2024**

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 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	3.7	5.2	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	55	56	
	Total Dissolved Solids (TDS)	440	400	
	Phosphorus, Total	0.21	0.26	
Group B Parameters	Aluminum	1.3	1.2	
	Iron	6.0	6.6	
	Copper, Total Recoverable (TR)	0.0018	0.0020	
	Lead (TR)	0.0023	0.0022	
	Zinc (TR)	0.013	0.019	
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)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.00021 / < 0.00013	N.R.	
Flow	Total Flow, gallons	N.R.	3,400	
	Maximum Flow rate, gallons per minute	40	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/06/24	11/06/24	
	Duration of storm event, in minutes	N.R.	375	Rain started at 0600 EST on 11/06/24 and ended at 1215 EST on 11/06/24.
	Date and Time of sample collection	11/06/24 0740	11/06/24 0950	
	Sampling Duration (Minutes)	Instantaneous	140	
	Total rainfall during sampling event, in inches	N.R.	0.22	An additional 0.04 inches was recorded after sampling was completed for a storm total of 0.26 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	126	Precipitation of 0.11 inches was recorded on 10/31/24 at 2345 EST. There was no flow at the outfall on arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 3, OUTFALL S12  
Monitoring Period: July 1 through December 31, 2024**

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	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	2.1	2.2	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	16	16	
	Total Dissolved Solids (TDS)	850	670	
	Phosphorus, Total	0.044	0.071	
Group B Parameters	Aluminum	0.20	0.26	
	Iron	1.8	1.7	
	Copper, Total Recoverable (TR)	0.0013	0.0019	
	Lead (TR)	0.0013	0.0017	
	Zinc (TR)	0.0066	0.011	
Group C Parameters	Total Nitrogen (as N)	< 1.0	< 0.82	
	TKN	0.63	0.56	
	Nitrate Nitrogen (as N)	0.25	0.19	
	Nitrite Nitrogen (as N)	< 0.17	< 0.066	
	Ammonia Nitrogen (as NH3)	0.017	0.017	
	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	< 0.0000063	< 0.0000072	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	3.7	N.R.	
	Paraquat Dichloride	< 0.00013/ < 0.00013	N.R.	
Flow	Total Flow, gallons	N.R.	290,000	
	Maximum Flow rate, gallons per minute	1,700	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/26/24	11/26/24	
	Duration of storm event, in minutes	N.R.	525	Rain started at 0145 EST on 11/26/24 and ended at 1030 EST on 11/26/24.
	Date and Time of sample collection	11/26/24 0540	11/26/24 0830	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.35	An additional 0.06 inches fell after sampling was completed for a storm total of 0.41 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	50	Precipitation of 0.21 inches was recorded on 11/23/24 at 2400 EST. There was flow above base flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 4, OUTFALL S34  
Monitoring Period: July 1 through December 31, 2024**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab / Duplicate	Flow-weighted Composite	
Group A Parameters	pH	7.6 / 7.6 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6 / < 1.6	N.R.	15 mg/L
	BOD-5	2.3 / < 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	87 / 86	93	
	Total Dissolved Solids (TDS)	590 / 600	570	
	Phosphorus, Total	0.064 / 0.058	0.082	
Group B Parameters	Aluminum	6.5 / 7.4	8.3	
	Iron	4.5 / 4.1	4.9	
	Copper, Total Recoverable (TR)	0.0077 / 0.0069	0.0096	
	Lead (TR)	0.0097 / 0.010	0.012	
	Zinc (TR)	0.054 / 0.045	0.058	
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)	0.015 / < 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.00013 < 0.00013	N.R.	
Flow	Total Flow, gallons	N.R.	13,000	
	Maximum Flow rate, gallons per minute	210	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/06/24	08/06/24	
	Duration of storm event, in minutes	N.R.	1,160	Rain started at 0030 EST on 08/06/24 and ended at 1950 EST on 08/06/24.
	Date and Time of sample collection	08/06/24 1200	08/06/24 1450	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.17	An additional 0.07 inches was recorded after sampling was completed for a storm total of 0.24 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	57	Precipitation of 0.21 inches was recorded on 08/03/24 at 1520 EST. Outfall was at base flow conditions.



**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 5, OUTFALL S14  
Monitoring Period: July 1 through December 31, 2024**

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	7.2 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.7	N.R.	15 mg/L
	BOD-5	4.2	3.1	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	11	11	
	Total Dissolved Solids (TDS)	860	880	
	Phosphorus, Total	0.092	0.099	
Group B Parameters	Aluminum	0.94	1.4	
	Iron	0.77	1.0	
	Copper, Total Recoverable (TR)	0.0022	0.0022	
	Lead (TR)	0.00063	0.00069	
	Zinc (TR)	0.0053	0.0058	
Group C Parameters	Total Nitrogen (as N)	< 0.71	< 0.74	
	TKN	0.61	0.64	
	Nitrate Nitrogen (as N)	0.084	0.084	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.039	0.047	
	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	< 0.0019	< 0.0019	
	Surfactant (as LAS)	0.027	0.024	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N. R.	
Flow	Total Flow, gallons	N.R.	580	
	Maximum Flow rate, gallons per minute	4.2	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/14/24	10/14/24	
	Duration of storm event, in minutes	N.R.	495	Rain started at 0145 EST on 10/14/24 and ended at 1000 EST on 10/14/24.
	Date and Time of sample collection	10/14/24 0800	10/14/24 1050	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.46	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	7	Precipitation of 0.92 inches was recorded on 10/13/24 at 1845 EST. There was no flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 6, OUTFALL S36  
Monitoring Period: July 1 through December 31, 2024**

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	8.0 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.2	N.R.	15 mg/L
	BOD-5	3.4	2.1	Not specified in permit. N.R. = Not required.  * Data was flagged "R" unreliable during the data validation process
	Total Suspended Solids (TSS)	44	37	
	Total Dissolved Solids (TDS)	470	370	
	Phosphorus, Total	< 0.0050	< 0.0050	
Group B Parameters	Aluminum	2.9	2.3	
	Iron	3.1	1.9	
	Copper, Total Recoverable (TR)	0.0037	0.0056	
	Lead (TR)	0.0030	0.0016	
	Zinc (TR)	0.10	0.053	
Group C Parameters	Total Nitrogen (as N)	< 2.2	< 1.1	
	TKN	2.1	1.0	
	Nitrate Nitrogen (as N)	0.032	0.028	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.054 "R"	0.045 "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	0.0019	0.0031	
	Surfactant (as LAS)	< 0.013 "R"	< 0.013 "R"	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	8,600	
	Maximum Flow rate, gallons per minute	87	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/26/24	11/26/24	
	Duration of storm event, in minutes	N.R.	525	Rain started at 0145 EST on 11/26/24 and ended at 1030 EST on 11/26/24.
	Date and Time of sample collection	11/26/24 0500	11/26/24 0750	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.35	An additional 0.06 inches was recorded after sampling was completed for a storm total of 0.41 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	50	Precipitation of 0.21 inches was recorded on 11/23/24 at 2400 EST. There was no flow at the outfall on arrival.

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 7, OUTFALL S20**  
**Monitoring Period: July 1 through December 31, 2024**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab/Duplicate	Flow-weighted Composite	
Group A Parameters	pH	7.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	4.2	6.8	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	< 4.0	< 4.0	
	Total Dissolved Solids (TDS)	< 2.4	11	
	Phosphorus, Total	0.033	0.022	
Group B Parameters	Aluminum	0.12	0.38	
	Iron	0.11	0.32	
	Copper, Total Recoverable (TR)	0.00081	0.0010	
	Lead (TR)	0.00074	0.00066	
	Zinc (TR)	0.0052	0.0074	
Group C Parameters	Total Nitrogen (as N)	< 0.29	< 0.34	
	TKN	< 0.19	0.30	
	Nitrate Nitrogen (as N)	0.077	< 0.020	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.22	0.32	
	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	< 0.033	< 0.033	
	Paraquat Dichloride	< 0.00013 / < 0.00013	N.R.	
Flow	Total Flow, gallons	N.R.	96,000	
	Maximum Flow rate, gallons per minute	2,600	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/29/24	10/29/24	
	Duration of storm event, in minutes	N.R.	615	Rain started at 1030 EST on 10/29/24 and ended at 2045 EST on 10/29/24.
	Date and Time of sample collection	10/29/24 1140	10/29/24 1425	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.28	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	134	Precipitation of 0.14 inches was recorded on 10/23/24 at 2045 EST. There was no flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 8, OUTFALL S35  
Monitoring Period: July 1 through December 31, 2024**

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	6.0	< 4.0	
	Total Dissolved Solids (TDS)	250	250	
	Phosphorus, Total	0.040	0.043	
Group B Parameters	Aluminum	0.37	0.56	
	Iron	0.27	0.31	
	Copper, Total Recoverable (TR)	0.0025	0.0026	
	Lead (TR)	0.00084	0.00090	
	Zinc (TR)	0.0096	0.010	
Group C Parameters	Total Nitrogen (as N)	< 1.2	< 1.2	
	TKN	0.79	0.83	
	Nitrate Nitrogen (as N)	0.38	0.35	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.044	0.049	
	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)	0.019	0.018	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.00013 / < 0.00013	N.R.	
Flow	Total Flow, gallons	N.R.	81,000	
	Maximum Flow rate, gallons per minute	470	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/14/24	10/14/24	
	Duration of storm event, in minutes	N.R.	495	Rain started at 0145 EST on 10/14/24 and ended at 1000 EST on 10/14/24.
	Date and Time of sample collection	10/14/24 0720	10/14/24 1010	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.46	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	7	Precipitation of 0.92 inches was recorded on 10/13/24 at 1845 EST. There was no flow at the outfall upon arrival.

**Attachment C**  
**CHBWV Environmental Certification**

## CHBWV ENVIRONMENTAL CERTIFICATION

### 1. To be signed by a CHBWV Officer

I certify under penalty of law that I have reviewed the environmental submittal, including all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the document has been prepared in accordance with all applicable requirements and the information is, to the best of my knowledge and belief, true, accurate, and complete.

Elizabeth Lowes/ VP, Regulatory Strategy

ELIZABETH LOWES  
(Affiliate)

Digitally signed by ELIZABETH LOWES  
(Affiliate)  
Date: 2025.01.14 10:35:16 -05'00'

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Name/Title (type or print)

Signature/ Date

**Attachment D**

**WVDP SPDES Permit “Special Conditions – Industry Best Management Practices,”  
Permittee Certification of Annual Review**

**WVDP SPDES Permit “Special Conditions – Industry Best Management Practices,”  
Permittee Certification of Annual Review**

I certify under penalty of law that the annual review of the Clean Water Act/SPDES Best Management Practices (BMP) and Storm Water Pollution Prevention Plan (SWPPP) for the WVDP (WVDP-206) was completed by December 31, 2024, as per the “Special Conditions – Industry Best Management Practices” section of the SPDES Permit.

**BRYAN  
BOWER**

Digitally signed by  
BRYAN BOWER  
Date: 2025.01.15  
15:49:37 -05'00'

Bryan C. Bower, Project Director  
U.S. Department of Energy  
West Valley Demonstration Project

Date



**Attachment E**

**Email Confirmation from NYSDEC**

**From:** [netdmr-notification@epa.gov](mailto:netdmr-notification@epa.gov)  
**To:** [R9.NetDMR@dec.ny.gov](mailto:R9.NetDMR@dec.ny.gov); [William Kean](#); [Michael Pendl](#); [Joshua Desmarais](#); [Jennifer Dundas](#); [Jamie Prowse](#); [Elizabeth Lowes](#); [rwring@cattco.org](mailto:rwring@cattco.org); [William Frederick](#); [Matia Varner](#); [Robert Steiner](#); [Anna Carr](#)  
**Subject:** NetDMR DMR(s) Submittal Passed for: NY0000973  
**Date:** Thursday, January 16, 2025 8:31:11 AM

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Reminder from the CHBWV IT Department:

This e-mail came from an external source. Do not open attachments or click on links from unknown senders, or in unexpected e-mail messages regardless of the source. Our network security is dependent upon your good judgment. If in doubt, ask before you click.

The following signed 12 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: \_73ac6a38-11db-4b72-8c28-3744cef6e4e5  
User ID: ELIZABETH.LOWES@CHBWV.COM  
Timestamp: 01/16/2025 07:51:43

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 001  
Discharge: A - OUTFALL 001 ANNUAL  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 001  
Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 001  
Discharge: S - OUTFALL 001 SEMI-ANNUAL  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 001  
Discharge: U - OUTFALL 001 ACTION LEVELS ANNUAL  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 001  
Discharge: V - OUTFALL 001 ACTION LEVELS SEMI-ANNUAL  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973  
Permitted Feature: 001  
Discharge: W - OUTFALL 001 WET TESTING QUARTERLY  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 007  
Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER  
Monitoring Period End Date: 12/31/24

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Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 007  
Discharge: V - OUTFALL 007 ANNUAL MONITORING  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 007  
Discharge: W - OUTFALL 007 WET TESTING QUARTERLY  
Monitoring Period End Date: 12/31/24

-----  
Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 01B  
Discharge: M - MERCURY PRETREATMENT  
Monitoring Period End Date: 12/31/24

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Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: 116  
Discharge: M - PSEUDO MON. POINT @FRANKS CRK  
Monitoring Period End Date: 12/31/24

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Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ  
Permit ID: NY0000973  
Permitted Feature: SUM  
Discharge: N - SUM OF OUTFALLS 1 & 7  
Monitoring Period End Date: 12/31/24

Thank you.

This is a submission from the LIVE (Production) site.