

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.

OUTFALL	DATE	PARAMETER	RESULT	UNITS
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.

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

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

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

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

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

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

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

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

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

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

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

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

DMR Copy of Record

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-A
OUTFALL 001 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

Principal Executive Officer

First Name:Bryan C.

Last Name:Bower

Title:Director, USDOE-WVDP

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 - 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 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 13:06 (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

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-M
OUTFALL 001 MONTHLY PROC WW, GW, STORM

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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

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 - COMP24
					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 - CALCTD
					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 - COMP24
					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 - COMP24
					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 - COMP24
					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 - COMP24
					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														02/BA - Twice Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.4 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.15 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				

DMR Copy of Record

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-S
OUTFALL 001 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

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-946-4368

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 [amen. to chlorination]	1 - Effluent Gross	0	--	Sample								<	0.002	<	0.002	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								=	0.014	=	0.014	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					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								<	0.0013	<	0.0013	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L			
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0096	<	0.0096	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L			
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.001	<	0.001	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L			
					Value NODI															
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0016	<	0.0016	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L			
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0017	<	0.0017	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					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

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

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-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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

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										=	0.05	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Permit Req.										<=	0.5 DAILY MX	19 - mg/L		01/YR - Annual	24 - COMP24
					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		01/YR - Annual	24 - COMP24
					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

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

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-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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

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										=	0.044	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	2.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample										<	0.011	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	0.65 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Value NODI															
71870	Bromide [as Br]	V - See Comments	0	--	Sample										<	0.37	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	5.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					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

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:

007
External Outfall

Discharge:

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

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:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

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 - CALCTD
					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 - COMP24
					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 - COMP24
					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 - COMP24
					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 - COMP24
					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 - COMP24
					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														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				

DMR Copy of Record

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 01/01/21 to 12/31/21

DMR Due Date:

01/28/22

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

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

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:

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William Kean

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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

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 12/01/21 to 12/31/21

DMR Due Date:

01/28/22

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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:

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Name:

William Kean

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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

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 12/01/21 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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

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														
					Permit Req.									Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge
					Value NODI									C - No Discharge		C - No Discharge			CA - CALCTD

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 13:13 (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

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:

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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

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
					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_2021_Net_Iron_Calculation.pdf	pdf	228093.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2022-01-20 13:13 (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)

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	
	Duration of storm event, in minutes	N.R.	360	Rain started at 0930 EDT on 09/08/21 and ended at 1530 EDT on 09/08/21.
	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	Precipitation of 0.15 inches was recorded on 09/07/21 at 2115 EDT. There was no flow at the outfall upon arrival.

**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.

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.

E. A. Lowes/V.P. Regulatory Strategy
Name/Title (type or print)

Elizabeth Lowes
Signature

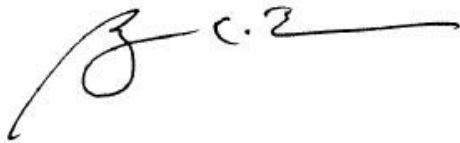
1/20/2022
Date signed

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, 2021, as per the “Special Conditions – Industry Best Management Practices” section of the SPDES Permit.



12/22/2021

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
To: ewwohlers@cattco.org; R9.NetDMR@dec.ny.gov; [Bonnie Jeffery](#); [William Kean](#); [Moirá Maloney](#); [Michael Pendl](#); [Janice Williams](#); [Joseph Forti](#); [Elizabeth Lowes](#)
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973
Date: Thursday, January 20, 2022 4:32:35 PM

The following signed 10 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _9ccf3e8e-ac87-4523-a872-4c884d332556
User ID: ELIZABETH.LOWES@CHBWV.COM
Timestamp: 01/20/2022 15:22:00

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: A - OUTFALL 001 ANNUAL
Monitoring Period End Date: 12/31/21

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: 12/31/21

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: S - OUTFALL 001 SEMI-ANNUAL
Monitoring Period End Date: 12/31/21

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: U - OUTFALL 001 ACTION LEVELS ANNUAL
Monitoring Period End Date: 12/31/21

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: 12/31/21

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: 12/31/21

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973
Permitted Feature: 007
Discharge: V - OUTFALL 007 ANNUAL MONITORING
Monitoring Period End Date: 12/31/21

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 12/31/21

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK
Monitoring Period End Date: 12/31/21

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 12/31/21

Thank you.

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