

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:2022:0577
July 20, 2022

Attention: Jennifer M. Dundas

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period January 1 through June 30, 2022, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2022 through June 30, 2022

REFERENCE: 1) 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 June 1 through June 30, 2022 including the Net Iron calculation sheet has been submitted electronically. Please note that semi-annual sampling results for outfall 001 and the Whole Effluent Toxicity (WET) sampling results for the second quarter are also included. 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 storm water monitoring results for the period of January 1, 2022 through June 30, 2022.

If you have any questions, please contact William Kean at (716) 942-4865 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 June 1 through June 30, 2022 Monitoring Period
B) Storm Water Discharge Monitoring Results for January 1 through June 30, 2022 Monitoring Period
C) CHBWV Environmental Certification
D) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP
S. A. Cherry, CHBWV
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 #2130562

Attachment A

SPDES DMR for June 1 – June 30, 2022

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2022, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2022 through June 30, 2022

The SPDES DMR for the June 1 through June 30, 2022 Monitoring Period is provided as Attachment A. There were no discharges at outfalls 001-M, 007-M, 007-W, 116-M, Sum-N or internal outfall 01B-M during the monitoring period of June 1, 2022 through June 30, 2022. Please note that semi-annual sampling results for outfall 001-S, 001-V and the second quarter Whole Effluent Toxicity (WET) sampling results 001-W are also included within this DMR.

CHBWV is also submitting the analytical results and data for the semi-annual storm water monitoring for the monitoring period of January 1, 2022 through June 30, 2022 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 May 4, May 16, and June 9, 2022. The on-site pH measured near the site's rain gauge on each of these dates was: 7.4 SU; 7.2 SU; and 7.6 SU respectively.

Storm water sampling at outfall S04 was completed on May 4, 2022. The number of hours between storm events was 6 hours (less than the normally required 72 hours), outfall S04 was above base flow conditions at the start of sampling.

Storm water sampling at outfalls S09 and S20 was completed on May 16, 2022. The number of hours between storm events was 32 hours (less than the normally required 72 hours), outfalls S09 and S20 were flowing upon arrival at the outfalls.

Storm water sampling at outfalls S34, S17 and S27 was completed on June 9, 2022. The number of hours between storm events was 28 hours (less than the normally required 72 hours), outfall S34 was slightly above base flow conditions and outfalls S17 and S27 were flowing upon arrival at the outfalls.

Storm water outfalls S06 and S43 were not sampled prior to the end of the monitoring period. Work force resources and the infrequent storm events during this monitoring period combined for a difficult sampling period. These outfalls will be collected at the next storm event and reported with the second semi-annual monitoring period results in the December 2022 discharge monitoring report.

SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2022
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.

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

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

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

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

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

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

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

DMR Copy of Record

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 06/01/22 to 06/30/22

DMR Due Date:

07/28/22

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			
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 01/01/22 to 06/30/22

DMR Due Date:

07/28/22

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		
00722	Cyanide, free [amenable 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		02/YR - Twice Per Year	GR - GRAB
					Value NODI														
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample							=	0.089	=	0.089	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.								Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					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		02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.0026	<	0.0026	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.								Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					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 - COMP24
					Permit Req.								Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample							=	0.00057	=	0.00057	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.								Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample							=	0.00056	=	0.00056	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Permit Req.								Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Value NODI														
39410	Heptachlor	1 - Effluent Gross	0	--	Sample							<	0.007	<	0.007	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Permit Req.							<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/L		02/YR - Twice Per Year	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@chbvw.com

Name:

William Kean

E-Mail:	william.kean@chbwv.com
Date/Time:	2022-07-19 13:22 (Time Zone: -04:00)
Report Last Signed By	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2022-07-19 14:08 (Time Zone: -04:00)

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 01/01/22 to 06/30/22

DMR Due Date:

07/28/22

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										=	0.04	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										<	0.01	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@chbwv.com

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2022-07-19 13:23 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2022-07-19 14:08 (Time Zone: -04:00)

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-W
OUTFALL 001 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period:

From 04/01/22 to 06/30/22

DMR Due Date:

08/28/22

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING 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			
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample										=	0.3	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI															
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample										=	1.0	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI															
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample										=	0.3	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI															
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample										=	1.0	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	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

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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:

2022-07-19 13:23 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2022-07-19 14:08 (Time Zone: -04:00)

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 06/01/22 to 06/30/22

DMR Due Date:
07/28/22

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-W
OUTFALL 007 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period:

From 04/01/22 to 06/30/22

DMR Due Date:

08/28/22

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING 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				
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample																
					Permit Req.											<=	0.3 MAXIMUM	2F - tox acute			
					Value NODI												C - No Discharge				
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample																
					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																
					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																
					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:

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Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2022-07-19 13:23 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2022-07-19 14:08 (Time Zone: -04:00)

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 06/01/22 to 06/30/22

DMR Due Date:

07/28/22

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:

william.kean@chbwv.com

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2022-07-19 13:24 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2022-07-19 14:08 (Time Zone: -04:00)

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 06/01/22 to 06/30/22

DMR Due Date:

07/28/22

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:

2022-07-19 13:24 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2022-07-19 14:08 (Time Zone: -04:00)

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 06/01/22 to 06/30/22

DMR Due Date:

07/28/22

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	CA - CALCTD
					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_June_2022_Net_Iron_Calculation.pdf	pdf	294872.0

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:

2022-07-19 13:24 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2022-07-19 14:08 (Time Zone: -04:00)

Attachment B

**Storm Water Discharge Monitoring Results for
January 1 through June 30, 2022
Monitoring Period**

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: January 1 through June 30, 2022

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	8.4 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	4.1	N.R.	15 mg/L
	BOD-5	< 3.0	< 3.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	170	200	
	Total Dissolved Solids (TDS)	430	440	
	Phosphorus, Total	0.41	0.65	
Group B Parameters	Aluminum	13	24	
	Iron	42	19	
	Copper, Total Recoverable (TR)	0.038	0.019	
	Lead (TR)	0.042	0.021	
	Zinc (TR)	0.23	0.11	
Group C Parameters	Total Nitrogen (as N)	< 2.4	< 1.1	
	TKN	2.2	0.91	
	Nitrate Nitrogen (as N)	0.19	0.12	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.084	0.039	
	Cadmium, TR	0.00053	0.00024	
	Chromium, TR	0.016	0.0091	
	Hexavalent Chromium, TR	<0.0050	< 0.0050	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	0.020	0.012	
	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	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	1,300,000	
	Maximum Flow rate, gallons per minute	16,000	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	05/04/22	05/04/22	
	Duration of storm event, in minutes	N.R.	405	Rain started at 0545 EDT on 5/04/22 and ended at 1230 EDT on 5/04/22.
	Date and Time of sample collection	05/04/22 0715	05/04/22 1000	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.43	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	6	0.12 inches was recorded on 5/3/22 at 2345 EDT. Outfall was above base flow conditions upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S09
Monitoring Period: January 1 through June 30, 2022

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	8.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.5	N.R.	15 mg/L
	BOD-5	6.8	5.4	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	330	240	
	Total Dissolved Solids (TDS)	510	470	
	Phosphorus, Total	0.82	0.49	
Group B Parameters	Aluminum	16	11	
	Iron	21	14	
	Copper, Total Recoverable (TR)	0.033	0.024	
	Lead (TR)	0.047	0.030	
	Zinc (TR)	0.22	0.14	
Group C Parameters	Total Nitrogen (as N)	< 1.9	6.7	
	TKN	1.9	6.2	
	Nitrate Nitrogen (as N)	< 0.020	0.50	
	Nitrite Nitrogen (as N)	< 0.020	0.030	
	Ammonia Nitrogen (as NH3)	0.33	0.23	
	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	< 0.0000070	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	13	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	77,000	
	Maximum Flow rate, gallons per minute	1,100	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/16/22	5/16/22	
	Duration of storm event, in minutes	N.R.	750	Rain started at 0900 EDT on 5/16/22 and ended at 2130 EDT on 5/16/22.
	Date and Time of sample collection	5/16/22 0925	5/16/22 1210	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.34	An Additional 0.20 inches was recorded after sampling was completed for a storm total of 0.54 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	32	Precipitation of 0.22 inches was recorded on 5/15/22 at 0130 EDT. There was flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: January 1 through June 30, 2022

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	6.0	N.R.	15 mg/L
	BOD-5	9.8	9.5	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	51	6.4	
	Total Dissolved Solids (TDS)	200	220	
	Phosphorus, Total	< 0.0050	< 0.0050	
Group B Parameters	Aluminum	3.3	1.4	
	Iron	2.9	1.3	
	Copper, Total Recoverable (TR)	0.0050	0.0024	
	Lead (TR)	0.0038	0.0032	
	Zinc (TR)	0.042	0.018	
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)	0.046	0.027	
	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.	280,000	
	Maximum Flow rate, gallons per minute	2,800	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/09/22	6/09/22	
	Duration of storm event, in minutes	N.R.	840	Rain started at 2330 EDT on 6/08/22 and ended at 1330 EDT on 6/09/22.
	Date and Time of sample collection	6/09/22 0600	6/09/22 0840	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.74	An additional 0.07 inches was recorded after sampling was completed for a storm total of 0.81 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	28	Precipitation of 0.27 inches was recorded on 6/7/22 at 1930 EDT. Outfall was slightly above base flow conditions upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S17
Monitoring Period: January 1 through June 30, 2022

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	7.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	6.8	N.R.	15 mg/L
	BOD-5	9.1	8.8	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	44	80	
	Total Dissolved Solids (TDS)	160	240	
	Phosphorus, Total	< 0.0050	0.22	
Group B Parameters	Aluminum	3.0	4.3	
	Iron	2.4	3.8	
	Copper, Total Recoverable (TR)	0.0040	0.0050	
	Lead (TR)	0.0069	0.0096	
	Zinc (TR)	0.017	0.022	
Group C Parameters	Total Nitrogen (as N)	0.43	0.86	
	TKN	0.30	0.69	
	Nitrate Nitrogen (as N)	0.10	0.14	
	Nitrite Nitrogen (as N)	0.027	0.028	
	Ammonia Nitrogen (as NH3)	0.020	< 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	0.0060	0.0063	
	Surfactant (as LAS)	0.047	0.019	
	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.	110,000	
	Maximum Flow rate, gallons per minute	930	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/09/22	6/09/22	
	Duration of storm event, in minutes	N.R.	840	Rain started at 2330 EDT on 6/08/22 and ended at 1300 EDT on 6/09/22.
	Date and Time of sample collection	6/09/22 0615	6/09/22 0855	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.74	An additional 0.07 inches was recorded after sampling was completed for a storm Total of 0.81 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	28	Precipitation of 0.27 inches was recorded on 6/07/22 at 1930 EDT. There was flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: January 1 through June 30, 2022

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	5.6 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	6.4	5.8	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	8.0	< 4.0	
	Total Dissolved Solids (TDS)	50	40	
	Phosphorus, Total	0.052	0.041	
Group B Parameters	Aluminum	0.35	0.25	
	Iron	0.37	0.29	
	Copper, Total Recoverable (TR)	0.0011	0.00085	
	Lead (TR)	0.00061	0.00036	
	Zinc (TR)	0.0052	0.0037	
Group C Parameters	Total Nitrogen (as N)	< 1.1	< 2.7	
	TKN	0.88	2.4	
	Nitrate Nitrogen (as N)	0.24	0.32	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.49	0.60	
	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	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	70,000	
	Maximum Flow rate, gallons per minute	1,200	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/16/22	5/16/22	
	Duration of storm event, in minutes	N.R.	750	Rain started at 0900 EDT on 5/16/22 and ended at 2130 EDT on 5/16/22.
	Date and Time of sample collection	5/16/22 0915	5/16/22 1200	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.34	An additional 0.20 inches was recorded after sampling was completed for a storm total of 0.54 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	32	Precipitation of 0.22 inches was recorded on 5/15/22 at 0130 EDT. There was flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S27
Monitoring Period: January 1 through June 30, 2022

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	11	N.R.	15 mg/L
	BOD-5	10	11	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	35	20	
	Total Dissolved Solids (TDS)	180	250	
	Phosphorus, Total	< 0.0050	< 0.0050	
Group B Parameters	Aluminum	2.7	1.9	
	Iron	2.4	1.2	
	Copper, Total Recoverable (TR)	0.0044	0.0032	
	Lead (TR)	0.0074	0.0036	
	Zinc (TR)	0.018	0.0082	
Group C Parameters	Total Nitrogen (as N)	0.89	< 1.1	
	TKN	0.58	0.71	
	Nitrate Nitrogen (as N)	0.28	0.36	
	Nitrite Nitrogen (as N)	0.028	< 0.020	
	Ammonia Nitrogen (as NH3)	0.014	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	N.R.	N.R.	
	Surfactant (as LAS)	0.036	0.037	
	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.	55,000	
	Maximum Flow rate, gallons per minute	510	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/09/22	6/09/22	
	Duration of storm event, in minutes	N.R.	840	Rain started at 2330 EDT on 6/08/22 and ended at 1330 EDT on 6/09/22.
	Date and Time of sample collection	6/09/22 0600	6/09/22 0850	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.74	An additional 0.07 inches was recorded after sampling was completed for a storm total of 0.81 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	28	Precipitation of 0.27 inches was recorded on 6/07/22 at 1930 EDT. There was a slight 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.

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

Elizabeth Lowes
Signature

07/19/2022
Date signed

Attachment E

Email Confirmation from NYSDEC

From: netdmr-notification@epa.gov
To: [Joshua Desmarais](#); Jenifer.dundas@emcbc.doe.gov; ewwohlers@cattco.org; R9.NetDMR@dec.ny.gov; [William Kean](#); [Bonnie Jeffery](#); [Michael Pendi](#); [Elizabeth Lowes](#)
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973
Date: Tuesday, July 19, 2022 3:51:29 PM

The following signed 9 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _88ad8e67-dac6-49be-aa5f-dd8764cd402b
User ID: ELIZABETH.LOWES@CHBWV.COM
Timestamp: 07/19/2022 14:08:02

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: 06/30/22

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: S - OUTFALL 001 SEMI-ANNUAL
Monitoring Period End Date: 06/30/22

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: 06/30/22

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: W - OUTFALL 001 WET TESTING QUARTERLY
Monitoring Period End Date: 06/30/22

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: 06/30/22

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 007
Discharge: W - OUTFALL 007 WET TESTING QUARTERLY
Monitoring Period End Date: 06/30/22

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973
Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 06/30/22

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK
Monitoring Period End Date: 06/30/22

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 06/30/22

Thank you.

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