### 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:2021:0593 July 20, 2021

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination

System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2021, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and

Storm Water Monitoring Results for January 1, 2021 through June 30, 2021

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, 2021 including the Total Dissolved Solids (TDS) and the Net Iron calculation sheets have been submitted electronically. A copy of this submittal is attached.

Also attached are the results of the storm water monitoring for the period of January 1, 2021 through June 30, 2021.

If you have any questions, please contact William Kean at (716) 942-4865 or cell phone (716) 946-8825 or Elizabeth Lowes at (716) 481-0429 if you have any questions.

Sincerely,

Approval Obtained Electronically

John D. Rendall President & General Manager

JDR:WNK:bnj

Attachments: A) SPDES DMR for June 1 through June 30, 2021 Monitoring Period

B) Storm Water Discharge Monitoring Results for January 1 through June 30, 2021

Monitoring Period

C) CHBWV Environmental Certification

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

J. T. Pillittere, CHBWV (Public Reading Room)

M. A. Rodges, CHBWV

R. E. Steiner, CHBWV

T. Stapleton, CHBWV

K. A. Wooley, CHBWV

Letter Log (B. Jeffery), CHBWV

CHBWV OITS #2030154

### Attachment A

SPDES DMR for June 1-30, 2021

#### **SYNOPSIS**

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2021, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2021 through June 30, 2021

The SPDES DMR for the June 1 through June 30, 2021 Monitoring Period is provided as Attachment A. There were discharges at outfall 001-M, 116-M, and Sum-N during the monitoring period of June 1, 2021 through June 30, 2021. Please also note that there were also discharges at outfall 001-S during the monitoring period of January 1, 2021 through June 30, 2021 as denoted on the specific Discharge Monitoring Reports (DMR).

In addition, CHBWV is also submitting, for your use the analytical results and data for the semi-annual storm water monitoring period of January 1, 2021 through June 30, 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 April 29, May 25, June 14, and June 21, 2021. The on-site pH measured near the site's rain gauge on each of these dates was: 6.6 SU; 5.6 SU; 8.1 SU; and 8.0 SU, respectively.

Storm water sampling that was conducted on June 21, at outfalls S06, S42 and S43 (Pb) although the duration between the storm events was less than the requisite 72 hours as normally required, however the end of the monitoring was coming to an end and the outfalls had returned to base flow conditions prior to the time of sampling that occurred on June 21, 2021.

In addition, semi-annual lead sampling was completed on June 21, 2021 at storm water outfall S43 located at the Live Fire Range with reported result of 0.003 mg/L with 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 June 6-8, 2021 and therefore, storm water outfalls that could be affected were sampled for Paraquat Dichloride on July 14 and July 21, 2021 during the second semi-annual monitoring period.

OUTFALL	DATE	PARAMETER	RESULT	UNITS
S04	6/21/21	Paraquat Dichloride	< 0.0004	mg/L
S06	6/21/21	Paraquat Dichloride	< 0.0004	mg/L
S09	6/14/21	Paraquat Dichloride	< 0.0004	mg/L
S12	6/21/21	Paraquat Dichloride	< 0.0004	mg/L
S17	6/21/21	Paraquat Dichloride	< 0.0004	mg/L
S20	6/21/21	Paraquat Dichloride	< 0.0004	mg/L
001	6/21/21	Paraquat Dichloride	< 0.0004	mg/L

# SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2021 NET IRON EFFLUENT CONCENTRATION CALCULATION WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001 = M1 = 
$$\frac{(X1 + X2) V1}{2}$$
 = 824046.91 mg/month

X1 = 0.0771 mg/L

X2 = 0.188 mg/L

V1 = 6216875.98 L/month

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

X1 = 0.000 mg/L

X2 = 0.000 mg/L

V7 = 0.00 L/month

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

RAW WATER = MRW = 
$$(X1 + X2 + X3 + X4)$$
 VRW = 0.00 mg/month

X1 = 0.000 mg/L

X2 = 0.000 mg/L

X3 = 0.000 mg/L

X4 = 0.000 mg/L

VRW = 0.00 L/month

IRON DISCHARGE CONCENTRATION = 
$$\frac{\text{M1} + \text{M7} - \text{MRW}}{\text{V1} + \text{V7}}$$
 = 0.13 mg/L

#### ATTACHMENT (Cont=d)

# SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2021 TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116 WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: June 16, 2021

- C4 = ((Q1)(C1) + (Q2)(C2) + (Q3)(C3))/Q4
  - = ((0.206 MGD) (978 mg/L) + (0.000 MGD) (781 mg/L) + (0.418 MGD) (145 mg/L)) / (0.624 MGD)
  - = 420 mg/L

TDS result was above 500 mg/L and therefore Q2 & C2 were not included.

Date: June 21, 2021

- C4 = ((Q1)(C1) + (Q2)(C2) + (Q3)(C3))/Q4
  - = (0.206 MGD) (866 mg/L) + (0.042 MGD) (234 mg/L) + (0.418 MGD) (115 mg/L)) / 0.665 MGD)
  - = 355 mg/L
- Q1 = Flow at Outfall 001, million gallons per day (MGD).
- C1 = Total Dissolved Solids (TDS) concentration at Outfall 001, mg/L.
- Q2 = Flow in Franks Creek, MGD (without Outfall 001), measured at WNSP006 just prior to, and shortly after the discharge event.
- C2 = TDS concentration in Franks Creek measured at WNSP006 just prior to, and shortly after the discharge event.
- Q3 = Flow of augmentation water, MGD, if required.
- C3 = TDS concentration in augmentation water, MGD.
- Q4 = Q1 + Q2 + Q3, MGD (Flow in Franks Creek, including Outfall 001).
- C4 <= 500 mg/L (calculated TDS concentration at 116 in Franks Creek, which includes Outfall 001).

Permit

Permit #: NY0000973

Permittee: U.S. DEPT OF ENERGY

Yes 1000 INDEPENDENCE AVE SW Major: Permittee Address:

WASHINGTON, DC 20585

Facility:

Facility Location:

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Discharge: **Permitted Feature:** 001 001-M External Outfall OUTFALL 001 MONTHLY PROC WW, GW, STORM

Report Dates & Status

DMR Due Date: Status: **Monitoring Period:** From 06/01/21 to 06/30/21 07/28/21 **NetDMR Validated** 

**Considerations for Form Completion** 

**Principal Executive Officer** 

Title: Telephone: 716-942-4368 Director, USDOE-WVDP First Name: Bryan C.

ast Na	ame: Bower																	
Dat	a Indicator (NODI)																	
m N	IODI:																	
	Parameter	<b>Monitoring Location</b>	Season #	# Param. NODI			Quantity or Loadi	ng				(	Quality or Concen	tration		# 0	of Ex. Frequency of Analysis Sa	ample 1
ode	Name				Qualifier	1 Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1			Qualifier		Units		
					Sample								69.0	=		19 - mg/L	01/BA - Once Per Batch 24	
154	Sulfate [as S]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	1	Req Mon DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24	4 - CON
					/alue NODI													
					Sample									<		19 - mg/L	02/BA - Twice Per Batch CA	
181	Oxygen demand, ultimate	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	i <=	22.0 DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch CA	A - CAI
					/alue NODI													
					Sample						6.4			=		19 - mg/L	02/BA - Twice Per Batch GF	
300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.					>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L 0	02/BA - Twice Per Batch GF	R - GR
					/alue NODI													
					Sample							<	2.0	<	2.0	19 - mg/L	02/BA - Twice Per Batch 24	4 - CON
310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	G <=	10.0 DAILY MX	19 - mg/L <sub>0</sub>	02/BA - Twice Per Batch 24	4 - COI
					/alue NODI													
					Sample					=	8.0			=	8.0	12 - SU	01/BA - Once Per Batch GF	R - GR
0400	nH	1 - Effluent Gross	0		Permit Req.					>=	6.5 MINIMUM			<=		12 - SU 0	01/BA - Once Per Batch GF	R - GR
100	<b>.</b>	1 Emaoni Oroco	Ü		/alue NODI													
					Sample							<	5.8	=	7.6	19 - mg/L	02/BA - Twice Per Batch 24	4 - COI
530	Calida tatal ayanandad	1 - Effluent Gross	0		Permit Req.									<=		19 - mg/L		
330	Solids, total suspended	1 - Ellidelit Gioss	U		/alue NODI											- 0		
					Sample							_	0.1	<	0.1	25 - mL/L	02/BA - Twice Per Batch GF	D CD
- 4-		4 5			Permit Req.								Req Mon MO AVG			25 - ML/L 25 - mL/L		
545	Solids, settleable	1 - Effluent Gross	U		/alue NODI											0		
													4.5		4.5	40/1	04/DA Out - Day Databa Of	D 0D
					Sample Permit Req.								1.5 Req Mon MO AVG	<		19 - mg/L 19 - mg/L	01/BA - Once Per Batch GF 01/BA - Once Per Batch GF	
0556	Oil & Grease	1 - Effluent Gross	0										Red MOIL MO AVC	, <-	13.0 DAILT WX	19 - mg/L 0	OT/DA - Office Fel Daton Of	IX - OIX
					/alue NODI													
					Sample								0.04 Reg Mon MO AVG	=		19 - mg/L	01/BA - Once Per Batch 24	
0615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0		Permit Req.								Red Mon MO AVG	> <=	0.1 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24	4 - CON
					/alue NODI													
					Sample								0.02	<		19 - mg/L	01/BA - Once Per Batch 24	
620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	6	Req Mon DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24	4 - CON
					/alue NODI													
					Sample								0.45	=		19 - mg/L	02/BA - Twice Per Batch 24	4 - CON
625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	ì	Req Mon DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch 24	4 - COI
					/alue NODI													
					Sample							<	0.03	<		19 - mg/L	01/BA - Once Per Batch 24	4 - CON
746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	i <=	0.4 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24	4 - COI
	, , , , , , , , , , , , , , , , , , , ,				/alue NODI													
					Sample							=	0.0015	=	0.0015	19 - mg/L	01/BA - Once Per Batch 24	4 - COI
)978	Arsenic, total recoverable	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG			19 - mg/L <sub>O</sub>		
	, total loos tolublo	. Lindoin Gross			/alue NODI													

				Sample				<	0.0006 <	0.0006	19 - mg/L	01/BA - Once Per Batch GR - GRAB
00979	Cobalt, total recoverable	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG <=	0.005 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
	, , , , , , , , , , , , , , , , , , , ,			Value NODI								
				Sample				<	0.0004 <	0.0004	19 - mg/L	01/BA - Once Per Batch GR - GRAB
00981	Selenium, total recoverable	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG <=	0.004 DAILY MX	19 - mg/L <sub>0</sub>	01/BA - Once Per Batch GR - GRAB
				Value NODI								
				Sample				=	0.133 =	0.188	19 - mg/L	02/BA - Twice Per Batch 24 - COMP2
01045	Iron, total [as Fe]	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L <sub>0</sub>	02/BA - Twice Per Batch 24 - COMP2
	,,,,,,,,			Value NODI								
				Sample				<	0.06 <	0.06	19 - mg/L	01/BA - Once Per Batch 24 - COMP2
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	 Permit Req.				<=	2.0 MO AVG <=	4.0 DAILY MX	19 - mg/L <sub>0</sub>	01/BA - Once Per Batch 24 - COMP2
				Value NODI								
				Sample				<	0.0015 <	0.0015	19 - mg/L	01/BA - Once Per Batch GR - GRAB
01128	Vanadium, total recoverable	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG <=	0.014 DAILY MX	19 - mg/L <sub>0</sub>	01/BA - Once Per Batch GR - GRAB
				Value NODI								
				Sample				<	0.055 <	0.1	19 - mg/L	02/BA - Twice Per Batch 24 - COMP2
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	 Permit Req.				<=	1.5 MO AVG <=	2.1 DAILY MX	19 - mg/L <sub>0</sub>	02/BA - Twice Per Batch 24 - COMP2
	iningen, animoma, tetal [ae mie]			Value NODI								
				Sample =	0.206 =	0.271	03 - MGD					02/BA - Twice Per Batch CN - CONTII
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	 Permit Req.	Req Mon MO AVG	Req Mon DAILY	MX 03 - MGD				0	02/BA - Twice Per Batch CN - CONTI
	, , , , , , , , , , , , , ,			Value NODI								
				Sample				=	0.05 =	0.05	19 - mg/L	01/BA - Once Per Batch GR - GRAB
50060	Chlorine, total residual	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L <sub>0</sub>	01/BA - Once Per Batch GR - GRAB
	,			Value NODI								
				Sample				=	922.0 =	978.0	19 - mg/L	02/BA - Twice Per Batch GR - GRAB
70295	Solids, total dissolved	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L <sub>0</sub>	02/BA - Twice Per Batch GR - GRAB
. 0200				Value NODI								
				Sample				=	1.5 =	1.5	3M - ng/L	01/BA - Once Per Batch GR - GRAB
	Mercury, total [as Hg]	1 - Effluent Gross	0	 Permit Req.				<=	50.0 MO AVG	Req Mon DAILY MX	3M - ng/L <sub>0</sub>	01/BA - Once Per Batch GR - GRAB
71900	Mercury, total jas nui		1 *	Value NODI								
71900	wercury, total [as ng]			Value NODI								
71900	mercury, total [as ng]			Sample				=	0.02 =	0.02	19 - mg/L	01/BA - Once Per Batch GR - GRAB
	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0					=	0.02 = Req Mon MO AVG <=	0.02 0.04 DAILY MX	19 - mg/L 19 - mg/L	01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB

#### Submission Note

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

**Edit Check Errors** 

No errors.

Comments

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

Attachments

No attachments.

Report Last Saved By
U.S. DEPT OF ENERGY

User: william.kean@chbwv.com

Name: William Kean

E-Mail: william.kean@chbwv.com

Date/Time: 2021-07-20 12:58 (Time Zone: -04:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2021-07-20 15:46 (Time Zone: -04:00)

Permit

Major:

Permit #: NY0000973

Yes

Permittee: U.S. DEPT OF ENERGY

Permittee Address: 1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

**Facility Location:** 

Facility:

WEST VALLEY DEMONSTRATION PROJ

tion: 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Permitted Feature: 001

External Outfall

001-S

OUTFALL 001 SEMI-ANNUAL

Report Dates & Status

Monitoring Period: From 01/01/21 to 06/30/21

DMR Due Date: 07/28/21

Discharge:

Title:

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Bryan C.

Bower

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Last Name:

Form NODI: --

	Parameter	Monitoring Location	Season #	Param. NODI			Quantity	or Loading	I			Quality or Cond	entration			# of Ex	c. Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2 V	alue 2 Ui	nits Qualifier 1	Value 1 Qualifier 2	2 Value 2	Qualifier 3	3 Value 3	Units			
					Sample						<	0.005	<	0.005	19 - mg/L		02/YR - Twice Per Year	GR - GRAB
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	0.005 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	GR - GRAB
00.22	Cyanac, neo [amem te ememanen]	. Imagin Grees			Value NODI													
					Sample						=	0.007	=	0.007	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01055	Manganese, total [as Mn]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
0.000	manganees, tetal [ac mm]	. I I I I I I I I I I I I I I I I I I I			Value NODI													
					Sample						=	0.0013	=	0.0013	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01067	Nickel, total [as Ni]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	0.079 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
0.00.	The state of the s	. I I I I I I I I I I I I I I I I I I I			Value NODI													
					Sample						=	0.0035	=	0.0035	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01094	Zinc, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	0.13 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
	Zinc, total recoverable				Value NODI													
					Sample						<	0.0002	<	0.0002	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01114	Lead, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	0.006 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
	,				Value NODI													
					Sample						=	0.00058	=	0.00058	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01118	Chromium, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	0.11 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
	,				Value NODI													
					Sample						=	0.00085	=	0.00085	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01119	Copper, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	i <=	0.014 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI													
					Sample						<	0.006	<	0.006	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
39410	Heptachlor	1 - Effluent Gross	0		Permit Req.						<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/L	0	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@chbwv.com

Name: William Kean

E-Mail: william.kean@chbwv.com

Date/Time: 2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2021-07-20 15:46 (Time Zone: -04:00)

Permit

Major:

Permit #:

Yes

U.S. DEPT OF ENERGY NY0000973 Permittee:

**Permittee Address:** 

1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585

WEST VALLEY DEMONSTRATION PROJ

**Facility Location:** 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Facility:

001 Discharge: **Permitted Feature:** 001-V

External Outfall **OUTFALL 001 ACTION LEVELS SEMI-ANNUAL** 

Report Dates & Status

From 01/01/21 to 06/30/21 **DMR Due Date:** 07/28/21 Status: **NetDMR Validated Monitoring Period:** 

**Considerations for Form Completion** 

SEE PERMIT FOR REPORTING REQUIREMENTS

**Principal Executive Officer** 

Title: Director, USDOE-WVDP Telephone: 716-942-4368 First Name: Bryan C.

**Last Name:** Bower

No Data Indicator (NODI)

Form NODI:

	_		-																1	
	Parameter	Monitoring Location	Season #	Param. NODI			Quanti	ty or Loadi	ng				Qual	ity or Co	ncentratio	า		# of Ex.	Frequency of Analys	sis Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units 0	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample												19 - mg/L		02/YR - Twice Per Yea	ar 24 - COMP24
01022	Boron, total [as B]	V - See Comments	0		Permit Req.										<=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Yea	ar 24 - COMP24
					Value NODI															
					Sample										<	0.0011	19 - mg/L		02/YR - Twice Per Yea	ar 24 - COMP24
01152	Titanium, total [as Ti]	V - See Comments	0		Permit Req.										<=	0.65 DAILY MX	19 - mg/L	0	02/YR - Twice Per Yea	ar 24 - COMP24
	, , , , , , , , , , , , , , , , , , , ,				Value NODI															
					Sample												19 - mg/L		02/YR - Twice Per Yea	ar 24 - COMP24
71870	Bromide [as Br]	omide [as Br] V - See Comments	0		Permit Req.										<=	5.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Yea	ar 24 - COMP24
070	70 Bromide [as Br] V - See Comments 0			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** 

william.kean@chbwv.com User:

William Kean Name:

E-Mail: william.kean@chbwv.com

Date/Time: 2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM User:

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2021-07-20 15:46 (Time Zone: -04:00)

Permit

Permit #: NY0000973

Permittee: U.S. DEPT OF ENERGY

Major: Yes

Permittee Address: 1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

Permitted Feature: 007

External Outfall

Discharge: 007-M

SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Report Dates & Status

Monitoring Period: From 06/01/21 to 06/30/21

DMR Due Date: 07/28/21

Title:

Status:

Facility:

Facility Location:

NetDMR Validated

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Principal Executive Officer

First Name: Bryan C.

**Considerations for Form Completion** 

Bower

Director, USDOE-WVDP

**Telephone:** 716-942-4368

No Data Indicator (NODI)

Form NODI:

Last Name:

	Parameter	Monitoring Location	Season #	Param. NODI	I		Qı	uantity or Load	ing			Quality or Concentrati	on		;	of Ex. Frequency of Analysis	Sample Typ
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units Qualif	ier 1 Value 1	Qualifier 2 Value 2	Qualifier 3	3 Value 3	Units		
					Sample Bormit Bog							Pag Man MO AVC		22.0 DAILY MX	10 mg/l	01/20 Monthly	CA CALCTI
00181	Oxygen demand, ultimate	1 - Effluent Gross	0		Permit Req.							<u> </u>	<=		19 - mg/L	01/30 - Monthly	CA - CALCTI
					Value NODI							C - No Discharge		C - No Discharge			
					Sample						0.0 541511541154			D M MANIMUM	40	00/00 Turing Day Manuth	OD ODAD
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.					>=	3.0 MINIMUM			Req Mon MAXIMUM	19 - mg/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI						C - No Discharge			C - No Discharge			
					Sample							Don Mon MO AVC		10.0 DAILY MX	10	02/30 - Twice Per Month	24 COMPO
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG			19 - mg/L	02/30 - Twice Per Month	24 - COMP2
					Value NODI							C - No Discharge		C - No Discharge			
					Sample						0.5.1415.115.41.15.4			0.5.144.2/1141.114	40.011	00/00 T : D M II	00.0040
00400	pH	1 - Effluent Gross	0		Permit Req.					>=	6.5 MINIMUM		<=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per Month	GR - GRAB
					Value NODI						C - No Discharge			C - No Discharge			
					Sample												
00530	Solids, total suspended	1 - Effluent Gross	0		Permit Req.							<= 30.0 MO AVG			19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Value NODI							C - No Discharge		C - No Discharge			
					Sample												
00545	Solids, settleable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG		0.3 DAILY MX	25 - mL/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge		C - No Discharge			
					Sample												
00556	Oil & Grease	1 - Effluent Gross	0		Permit Req. Value NODI							Req Mon MO AVG			19 - mg/L	02/30 - Twice Per Month	GR - GRAB
												C - No Discharge		C - No Discharge			
					Sample												
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG		0.1 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP2
					Value NODI							C - No Discharge		C - No Discharge			
					Sample												
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP2
					Value NODI							C - No Discharge		C - No Discharge			
					Sample												
01045	Iron, total [as Fe]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP2
					Value NODI							C - No Discharge		C - No Discharge			
					Sample												
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0		Permit Req.							<= 1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP2
					Value NODI							C - No Discharge		C - No Discharge			
					Sample												
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req.	Re	eq Mon MO AVG	F	Req Mon DAILY MX	03 - MGD						01/30 - Monthly	CN - CONTIN
					Value NODI	(	C - No Discharge	е	C - No Discharge								
					Sample												
50060	Chlorine, total residual	1 - Effluent Gross	0		Permit Req.							Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB
					Value NODI							C - No Discharge		C - No Discharge			

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

#### **Submission Note**

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

**Edit Check Errors** 

No errors.

Comments

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: 2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2021-07-20 15:46 (Time Zone: -04:00)

Permit U.S. DEPT OF ENERGY Facility: WEST VALLEY DEMONSTRATION PROJ Permit #: NY0000973 Permittee: Facility Location: Major: Yes **Permittee Address:** 1000 INDEPENDENCE AVE SW 10282 ROCK SPRINGS ROAD WASHINGTON, DC 20585 WEST VALLEY, NY 14171-9799 01B Discharge: 01B-M **Permitted Feature:** Internal Outfall MERCURY PRETREATMENT Report Dates & Status **Monitoring Period:** From 06/01/21 to 06/30/21 **DMR Due Date:** 07/28/21 Status: **NetDMR Validated Considerations for Form Completion** Principal Executive Officer First Name: Bryan C. Title: Director, USDOE-WVDP Telephone: 716-942-4368 Last Name: Bower No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI # of Ex. Frequency of Analysis Sample Type **Quantity or Loading Quality or Concentration** Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Qualifier 3 Code Name Qualifier 1 Sample Reg Mon MO AVG Req Mon DAILY MX 07 - gal/d CN - CONTIN 01/07 - Weekly Permit Req. 00056 Flow rate 1 - Effluent Gross 0 Value NODI C - No Discharge C - No Discharge Sample Permit Reg. Reg Mon MO AVG <= 50.0 DAILY MX 3M - ng/L 02/BA - Twice Per Batch GR - GRAB 71900 Mercury, total [as Hg] 1 - Effluent Gross 0 C - No Discharge Value NODI C - No Discharge **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. **Comments** Attachments No attachments. Report Last Saved By U.S. DEPT OF ENERGY User: william.kean@chbwv.com Name: William Kean E-Mail: william.kean@chbwv.com 2021-07-20 07:47 (Time Zone: -04:00) Date/Time: Report Last Signed By User: ELIZABETH.LOWES@CHBWV.COM Name: Elizabeth Lowes E-Mail: elizabeth.lowes@chbwv.com Date/Time: 2021-07-20 15:46 (Time Zone: -04:00)

Permit Permit #:

Major:

NY0000973

Permittee:

U.S. DEPT OF ENERGY

Yes

Bower

Permittee Address: 1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

**Facility Location:** 

Facility:

Status:

WEST VALLEY DEMONSTRATION PROJ

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

From 06/01/21 to 06/30/21 **Monitoring Period:** 

**DMR Due Date:** 07/28/21 NetDMR Validated

**Considerations for Form Completion** 

IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A'IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

**Principal Executive Officer** 

First Name: Bryan C. Title: Director, USDOE-WVDP

Telephone: 716-942-4368

No Data Indicator (NODI)

**Last Name:** 

Form NODI:

	Parameter	Monitoring Location	Season # Param. NOD	1		Quantity	y or Loadin	ng				Quality or Concer	ntration			# 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			
				Sample						-	=	388.0	=	420.0	19 - mg/L	(	02/DS - Twice Per Discharge	CA - CALCTD
70295	Solids, total dissolved	7 - Instream Monitoring	0	Permit Req.								Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L	0	02/DS - Twice Per Discharge	CA - CALCTD
.0250	conac, total dissolved	2 monocam wormoning		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: 2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM User:

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

2021-07-20 15:46 (Time Zone: -04:00) Date/Time:

Permit U.S. DEPT OF ENERGY Facility: Permit #: NY0000973 Permittee: WEST VALLEY DEMONSTRATION PROJ **Facility Location:** Major: Yes **Permittee Address:** 1000 INDEPENDENCE AVE SW 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799 WASHINGTON, DC 20585 SUM Discharge: **Permitted Feature:** SUM-N Internal Outfall SUM OF OUTFALLS 1 & 7 Report Dates & Status **DMR Due Date:** From 06/01/21 to 06/30/21 07/28/21 Status: **NetDMR Validated Monitoring Period: Considerations for Form Completion Principal Executive Officer** Title: Director, USDOE-WVDP Telephone: First Name: Bryan C. 716-942-4368 **Last Name:** Bower No Data Indicator (NODI) Form NODI: Parameter Monitoring Location Season # Param. NODI **Quantity or Loading Quality or Concentration** # of Ex. Frequency of Analysis Sample Type Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Name Value 2 Qualifier 3 Value 3 Units Sample 0.13 1.0 DAILY MX 19 - mg/L Permit Red Req Mon MO AVG <= 01/30 - Monthly 01045 Iron, total [as Fe] 2 - Effluent Net 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 William Kean Name:

01/30 - Monthly

CA - CALCTD

CA - CALCTD

E-Mail: william.kean@chbwv.com

Date/Time: 2021-07-20 07:47 (Time Zone: -04:00)

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E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2021-07-20 15:46 (Time Zone: -04:00)

### **Attachment B**

Storm Water Discharge Monitoring Results for January 1 through June 30, 2021 Monitoring Period

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 1, OUTFALL \$04

Parameter		Results in mg/L		Permit No. NY-0000973
Group	Parameter		T	Compliance Limit
		First Flush	Flow-weighted	
G .		Grab	Composite	N. 6 16 11 P
Group A	pH	7.6 / 7.6 S.U.	N.R.	Not Specified in Permit.
Parameters	Oil and Grease	2.2 / 2.8	N.R.	15 mg/L
	BOD-5	5.9 / 4.7	3.2	Not specified in permit.
	Total Suspended Solids (TSS)	75 / 75	52	N.R. = Not Required.
	Total Dissolved Solids (TDS)	2600 / 2500	1900	4
	Phosphorus, Total	0.14 / 0.13	0.10	4
Group B	Aluminum	1.1 / 1.3	1.6	4
Parameters	Iron	1.2 / 1.2	1.4	4
	Copper, Total Recoverable (TR)	0.0063/0.0061	0.0048	
	Lead (TR)	0.0060/0.0059	0.0046	
	Zinc (TR)	0.034 / 0.032	0.027	
Group C	Total Nitrogen (as N)	1.5 / 1.8	1.3	
Parameters	TKN	0.95 / 1.3	0.93	
	Nitrate Nitrogen (as N)	0.43 / 0.45	0.31	
	Nitrite Nitrogen (as N)	0.074 / 0.091	0.090	
	Ammonia Nitrogen (as NH3)	0.28 / 0.30	0.19	
	Cadmium, TR	< 0.000071 / < 0.000071	< 0.000071	
	Chromium, TR	0.0034/0.0034	0.0030	
	Hexavalent Chromium, TR	<0.0050/<0.0050	< 0.0050	
	Selenium, TR	< 0.00044/ < 0.00044	< 0.00044	
	Vanadium, TR	0.0046/0.0045	0.0042	1
	Surfactant (as LAS)	N.R.	N.R.	1
	Alpha BHC	N.R.	N.R.	1
	Settleable Solids	N.R.	N.R.	1
	Sulfide	N.R.	N.R.	1
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	210,000	
11011	Maximum Flow rate, gallons per minute	1,500	N.R.	
	Method of flow measurement	Staff Gauge	1	1
Rainfall	Date(s) of event monitored	04/29/21	04/29/21	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	1,170	Rain started at 0430 EDT on 4/29/21 and ended at 2400 EDT on 4/29/21.
-	Date and Time of sample	04/29/21	04/29/21	
	collection	0920	1200	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.30	An additional 0.89 inches was recorded after sampling was completed for a total of 1.19 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	175	0.33 inches was recorded on 4/21/21 at 2145 EDT. Outfall was at base flow.

## STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 2, OUTFALL S06

Parameter Group	Monitoring Period:  Parameter	Results in mg/I		Permit No. NY-0000973 Compliance Limit
Group	rarameter	First Flush	Flow-weighted	Compnance Limit
C A		Grab 7.2 S.U.	Composite N.R.	N-4 C: £-1:- D:4
Group A	pH Oil and Grease	< 1.5 S.U.	N.R.	Not Specified in Permit.
Parameters	BOD-5	< 1.0	< 1.0	15 mg/L Not specified in permit.
		9.0	4.9	N.R. = Not Required.
	Total Suspended Solids (TSS)			N.R. – Not Required.
	Total Dissolved Solids (TDS)	1,200 < 0.020	1,100 0.051	-
C D	Phosphorus, Total Aluminum			-
Group B Parameters	Iron	0.021	< 0.019	+
rarameters	Copper, Total Recoverable (TR)	0.00059	0.00040	-
	Lead (TR)	< 0.00050	< 0.00050	7
	Zinc (TR)	0.012	0.0050	1
Group C	Total Nitrogen (as N)	N.R.	N.R.	1
Parameters	TKN	N.R.	N.R.	1
	Nitrate Nitrogen (as N)	N.R.	N.R.	1
	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)	0.0077	0.0077	
	Alpha BHC	N.R.	N.R.	7
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	9,500	
	Maximum Flow rate, gallons per minute	61	N.R.	
	Method of flow measurement	ISCO Flow Me	eter	1
Rainfall	Date(s) of event monitored	06/21/21	06/21/21	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	585	Rain started at 0515 EDT on 06/21/21 and ended at 1500 EDT on 06/21/21.
•	Date and Time of sample	06/21/21	06/21/21	
	collection	1505	1750	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling	N.R.	1.05	
	event, in inches			
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	34	Precipitation of 1.14 inches was recorded on 06/19/21 at 1930 EDT. Outfall was at base flow conditions.

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 3, OUTFALL S09

	Nionitoring Pel			,
Parameter			L, Mercury, total	Permit No. NY-0000973
Group	Parameter	in ng/L via me		Compliance Limit
		First Flush	Flow-weighted	
		Grab	Composite	
Group A	рН	7.8 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	5.3	N.R.	15 mg/L
	BOD-5	5.2	9.5	Not specified in permit.
	Total Suspended Solids (TSS)	77	210	N.R. = Not Required.
	Total Dissolved Solids (TDS)	6800	1900	
	Phosphorus, Total	0.061	0.56	Sample was flagged "R"
Group B	Aluminum	0.49	11	unreliable during the data
Parameters	Iron	0.96	13	validation process.
	Copper, Total Recoverable (TR)	0.0049	0.022	
	Lead (TR)	0.0022	0.030	
	Zinc (TR)	0.020	0.19	
Group C	Total Nitrogen (as N)	1.4	2.4	
Parameters	TKN	1.3 *R	1.9	
	Nitrate Nitrogen (as N)	0.084	0.43	7
	Nitrite Nitrogen (as N)	0.036	0.036	7
	Ammonia Nitrogen (as NH3)	0.079	0.12	7
	Cadmium, TR	N.R.	N.R.	7
	Chromium, TR	N.R.	N.R.	7
	Hexavalent Chromium, TR	N.R.	N.R.	7
	Selenium, TR	N.R.	N.R.	7
	Vanadium, TR	N.R.	N.R.	7
	Surfactant (as LAS)	N.R.	N.R.	7
	Alpha BHC	< 0.0000062	< 0.0000068	1
	Settleable Solids	N.R.	N.R.	1
	Sulfide	N.R.	N.R.	7
	Mercury, Total (ng/L)	43	N.R.	7
	Paraquat Dichloride	< 0.0004	N.R.	╡
Flow	Total Flow, gallons	N.R.	20,000	
Tiow	Maximum Flow rate, gallons per minute	530	N.R.	
	Method of flow measurement	Staff Gauge		<u> </u>
Rainfall	Date(s) of event monitored	6/14/21	6/14/21	
Event and	Duration of storm event, in	N.R.	120	Rain started at 1030 EDT on
Monitoring Summary	minutes	IV.K.	120	6/14/21 and ended at 1230 EDT on 6/14/21.
	Date and Time of sample	6/14/21	6/14/21	
	collection	1200	1410	
	Sampling Duration (Minutes)	Instantaneous	140	
	Total rainfall during sampling event, in inches	N.R.	0.27	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	237	Precipitation of 0.21 inches was recorded on 6/04/21 at 1400 EDT. No flow at outfall upon arrival.

## STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 4, OUTFALL S34

Parameter	Monitoring Period	Results in mg/L	Tough sunc 50, 2	Permit No. NY-0000973
Group	Parameter	First Flush Grab	Flow-weighted Composite	_ Compliance Limit
Group A	рН	7.3 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	3.6	N.R.	15 mg/L
	BOD-5	7.3	6.8	Not specified in permit.
	Total Suspended Solids (TSS)	120	210	N.R. = Not Required.
	Total Dissolved Solids (TDS)	1300	1400	1
	Phosphorus, Total	0.14	0.50	1
Group B	Aluminum	3.7	9.9	1
Parameters	Iron	5.5	13	
	Copper, Total Recoverable (TR)	0.0069	0.017	
	Lead (TR)	0.010	0.041	
	Zinc (TR)	0.060	0.18	
Group C	Total Nitrogen (as N)	N.R.	N.R.	
Parameters	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)	0.14	0.14	
	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.	210,000	
	Maximum Flow rate, gallons per minute	3,700	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	6/14/21	6/14/21	
Event and	Duration of storm event, in	N.R.	120	Rain started at 1030 EDT on
Monitoring Summary	minutes			6/14/21 and ended at 1230 EDT on 6/14/21.
	Date and Time of sample	6/14/21	6/14/21	
	collection	1220	1350	
	Sampling Duration (Minutes)	Instantaneous	100	
	Total rainfall during event, in inches	N.R.	0.27	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	237	Precipitation of 0.21 inches was recorded on 6/4/21 at 1400 EDT. Outfall was at base flow conditions.

### STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 5, OUTFALL S28 Monitoring Period: January 1 through June 30, 2021

Parameter	Parameter Parameter	Results in mg/L, mL/L for		Permit No. NY-0000973 Compliance Limit
Group		Settleable Solids		
		First Flush	Flow-weighted	
<u> </u>		Grab	Composite	N
Group A Parameters	pH	7.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.0	N.R.	15 mg/L
	BOD-5	6.3	4.9	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	190	200	
	Total Dissolved Solids (TDS)	2600	2300	
	Phosphorus, Total	0.31	0.38	4
Group B Parameters	Aluminum	6.7	5.0	4
	Iron	5.8	4.3	4
	Copper, Total Recoverable (TR)	0.017	0.017	
	Lead (TR)	0.014	0.025	_
	Zinc (TR)	0.036	0.051	_
Group C	Total Nitrogen (as N)	< 1.8	< 1.5	
Parameters	TKN	1.7	1.4	_
	Nitrate Nitrogen (as N)	< 0.020	< 0.020	_
	Nitrite Nitrogen (as N)	0.074	0.069	
	Ammonia Nitrogen (as NH3)	0.034	0.026	
	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	0.0093	0.011	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	1.0	0.4	
	Sulfide	< 0.67	< 0.67	
	Paraquat Dichloride	N.R.	N. R.	
Flow	Total Flow, gallons	N.R.	110,000	
	Maximum Flow rate, gallons	814	N.R.	
	per minute			
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	4/29/21	4/29/21	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	1,170	Rain started at 0430 EDT on 4/29/21 and ended at 2400 EDT on 4/29/21.
	Date and Time of sample	4/29/21	4/29/21	
	collection	0930	1210	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling	N.R.	0.30	An Additional 0.89 inches
	event, in inches			was recorded after sampling
				was completed for a storm
				Total of 1.19 inches.
	Number of hours between event			Precipitation of 0.33 inches
	sampled and previous	N.R.	175	was recorded on 4/21/21 at
	measurable (> 0.1 inch) event			2145 EDT. No flow at
				outfall upon arrival.

### STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 6, OUTFALL S42 Monitoring Period: January 1 through June 30, 2021

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
ī		First Flush Grab	Flow-weighted Composite	
Group A	рН	8.1 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	3.4	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	180	27	N.R. = Not required.
	Total Dissolved Solids (TDS)	890	640	
	Phosphorus, Total	0.19	0.04	
Group B	Aluminum	4.5	0.98	
Parameters	Iron	11	1.6	7
	Copper, Total Recoverable (TR)	0.012	0.0029	
	Lead (TR)	0.010	0.0014	7
	Zinc (TR)	0.033	0.0062	7
Group C	Total Nitrogen (as N)	< 1.5	0.55	7
Parameters	TKN	1.2	0.34	7
	Nitrate Nitrogen (as N)	0.25	0.19	7
	Nitrite Nitrogen (as N)	< 0.020	0.024	7
	Ammonia Nitrogen (as NH3)	< 0.10	< 0.10	7
	Cadmium, TR	N.R.	N.R.	7
	Chromium, TR	N.R.	N.R.	7
	Hexavalent Chromium, TR	N.R.	N.R.	7
	Selenium, TR	N.R.	N.R.	7
	Vanadium, TR	0.0084	0.0029	7
	Surfactant (as LAS)	0.027	0.055	7
	Alpha BHC	N.R.	N.R.	7
	Settleable Solids	1.8	0.3	
	Sulfide	< 0.67	< 0.67	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	7,500	
	Maximum Flow rate, gallons per minute	60	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	06/21/21	06/21/21	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	585	Rain started at 0515 EDT on 06/21/21 and ended at 1500 EDT on 06/21/21.
	Date and Time of sample	06/21/21	06/21/21	
	collection	1500	1750	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling	N.R.	1.05	
	event, in inches			D ::::::::::::::::::::::::::::::::::::
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	34	Precipitation of 1.14 inches was recorded on 06/19/21 at 1930 EDT. Outfall was at base flow conditions upon arrival at outfall.

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 7, OUTFALL S20

Parameter Group	Parameter Parameter	Results in mg/L		Permit No. NY-0000973
Group		First Flush Grab	Flow-weighted Composite	_ Compliance Limit
Group A	рН	7.2 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	3.7	N.R.	15 mg/L
	BOD-5	74	17	Not specified in permit.
	Total Suspended Solids (TSS)	130	34	N.R. = Not required.
	Total Dissolved Solids (TDS)	90	40	
	Phosphorus, Total	0.30	0.18	
Group B	Aluminum	2.9	0.70	
Parameters	Iron	4.8	1.5	
	Copper, Total Recoverable (TR)	0.0077	0.0036	
	Lead (TR)	0.0086	0.0030	
	Zinc (TR)	0.043	0.018	
Group C	Total Nitrogen (as N)	< 8.5	<3.2	
Parameters	TKN	7.8	2.7	
	Nitrate Nitrogen (as N)	0.72	0.50	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	1.3	0.92	
	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)	0.10	0.041	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.67	< 0.67	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	198,000	
	Maximum Flow rate, gallons	4,600	N.R.	
	per minute			
- · · · · · · · · · · · · · · · · · · ·	Method of flow measurement	Staff Gauge	T = (2 = /2.1	
Rainfall	Date(s) of event monitored	5/25/21	5/25/21	
Event and	Duration of storm event, in	N.R.	30	Rain started at 1445 EDT on
Monitoring Summary	minutes			5/25/21 and ended at 1515 EDT on 5/25/21.
	Date and Time of sample	5/25/21	5/25/21	
	collection	1430	1720	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.31	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	376	Precipitation of 0.31 inches was recorded on 5/9/21 at 2245 EDT. No flow at outfall upon arrival.

## STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 8, OUTFALL S27

Parameter	Triomtoring 1 crious	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
Group	Parameter	_		
		First Flush	Flow-weighted	
		Grab	Composite	100 110
Group A	pH	7.7 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	2.7	N.R.	15 mg/L
	BOD-5	7.5	8.2	Not specified in permit.
	Total Suspended Solids (TSS)	210	110	N.R. = Not Required.
	Total Dissolved Solids (TDS)	2700	1700	_
	Phosphorus, Total	0.52	0.14	
Group B Parameters	Aluminum	6.0	0.99	
	Iron	6.0	0.95	
	Copper, Total Recoverable (TR)	0.012	0.0056	
	Lead (TR)	0.034	0.0095	
	Zinc (TR)	0.084	0.023	
Group C	Total Nitrogen (as N)	2.8	2.1	
Parameters	TKN	2.6	1.9	
	Nitrate Nitrogen (as N)	0.16	0.084	
	Nitrite Nitrogen (as N)	0.080	0.079	
	Ammonia Nitrogen (as NH3)	0.072	0.057	1
	Cadmium, TR	N.R.	N.R.	1
	Chromium, TR	N.R.	N.R.	1
	Hexavalent Chromium, TR	N.R.	N.R.	1
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	0.014	1
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	1
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	4,200	
	Maximum Flow rate, gallons	37	N.R.	
	per minute			
	Method of flow measurement	Staff Gauge	•	
Rainfall	Date(s) of event monitored	4/29/21	4/29/21	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	1,170	Rain started at 0430 EDT on 4/29/21 and ended at 2400 EDT on 4/29/21.
	Date and Time of sample	4/29/21	4/29/21	
	collection	0940	1220	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.30	An Additional 0.89 inches was recorded after sampling was completed for a storm total of 1.19 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	175	Precipitation of 0.33 inches was recorded on 4/21/21 at 2145 EDT. There was no flow at outfall upon arrival.