

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Angela M. Cooney, Contracting Officer
U. S. Department of Energy
250 East 5th St., Suite 500
Cincinnati, OH 45202

AC-PRES
WD:2019:0561
July 18, 2019

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, 2019, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2019 through June 30, 2019

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, 2019 has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

Also attached are the results of the storm water monitoring for the period of January 1, 2019 through June 30, 2019.

If you have any questions, please contact William Kean at extension 4865 or Janice Williams at extension 2913.

Sincerely,



Scott A. Anderson
President & General Manager

SAA:WNK:bnj

Attachments: A) SPDES DMR for June 1 – June 30, 2019
B) Storm Water Monitoring Results for January 1, 2019 through June 30, 2019
C) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP
C. Chun, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
D. P. Klenk, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
J. D. Rendall, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1830341

Attachment A

SPDES DMR

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2019. SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2019 through June 30, 2019

Please note that there was no discharge at outfall 001, 007, 116, Sum N or internal outfall 01B for the monitoring period of June 1, 2019 through June 30, 2019.

In addition to reporting the semi-annual outfall 001 analytical results, CHBWV is also submitting, for your use the analytical results and data for the semi-annual storm water monitoring period of January 1, 2019 through June 30, 2019 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 7, May 13, May 29, and June 20, 2019. The on-site pH measured near the site's rain gauge on each of these dates was: 7.7 SU; 7.0 SU; 6.9 SU; and 7.9 SU, respectively.

In addition, semi-annual lead sampling was completed on June 20, 2019 at storm water outfall S43 located at the Live Fire Range with reported results of 0.0053 mg/L with an action level of 0.006 mg/L.

Storm water sampling that was conducted on May 13, 2019 at outfalls S04, S09, and S27 was completed although the duration between storm events was less than the 72 hours as normally required; however, although rainfall was first recorded at 0315 hours (65 hours) a tenth of an inch (0.10") was not recorded until 1000 hours (72) hours; in addition flow at the outfalls had returned to normal base flow conditions (S04 & S09) or had no flow prior to the storm event sampled (S27).

Storm water sampling that was conducted on May 29, 2019 at outfall S34 was completed although the duration between storm events was less than the 72 hours (21) as normally required; however, flow at the outfall had returned to base flow prior to the storm event sampled.

Our contract laboratory reported that the Surfactant sample collected at outfall S06 on June 20, 2019 could not be analyzed as the instrument was taken out of service due to issues with the standards used in the calibration of the instrument. As these samples are radiologically contaminated another laboratory certified in New York State could not be located and therefore this parameter was reported as "Not Measured."

The surfactant samples (first flush grabs and composites) collected at outfalls S28 and S38 on June 20, 2019 were flagged "R" unreliable during the data validation process due to missed holding times and/or spike recovery failures.

The sulfide first flush grab sample at outfall S28F for sulfide was flagged "R" unreliable during the data validation process due to a spike recovery failure.

The surfactants first flush grab sample at outfall S27 was flagged "R" unreliable during the data validation process due to a matrix spike failure.

Please note that, in accordance with the Schedule of Compliance sampling requirements contained on page 23 of 31 for Paraquat Dichloride Herbicide (Gramoxone Extra), the site has used herbicides along portions of the railroad spur located onsite during this storm water monitoring period of January 1 through June 30, 2019, however the spraying took place at the end of June 2019 and therefore, storm water outfalls that could possibly be effected will be sampled for Paraquat Dichloride during the second semi-annual monitoring period.

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2019
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\begin{aligned} \text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 0 \text{ mg/month} \\ X1 &= 0.00 \text{ mg/L} \\ X2 &= 0.00 \text{ mg/L} \\ V1 &= 0.00 \text{ L/month} \end{aligned}$$

Note: There was no discharge from outfall 001 during this monitoring period.

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

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

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

Note: Raw water from the reservoir system is no longer used for process water since the site installed two groundwater wells. This eliminated the need to collect raw water samples on a weekly basis and altered the iron discharge concentration equation as the mass of iron entering the system is no longer necessary.

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

DMR Copy of Record

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

Report Dates & Status					
Monitoring Period:	From 06/01/19 to 06/30/19	DMR Due Date:	07/28/19	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:	--
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Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type			
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units		
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	22 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						>=	3 MINIMUM						Req Mon MAXIMUM	19 - mg/L	02/BA - Twice Per Batch	GR - GRAB
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	10 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00400	pH	1 - Effluent Gross	0	--	Sample						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU			01/BA - Once Per Batch	GR - GRAB
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L			02/BA - Twice Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	.3 DAILY MX	25 - mL/L	02/BA - Twice Per Batch	GR - GRAB
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	15 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	.4 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	.15 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	.005 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	.004 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																

DMR Copy of Record

Permit																				
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY						Facility:	WEST VALLEY DEMONSTRATION PROJ										
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585						Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799										
Permitted Feature:	001 External Outfall	Discharge:	001-S OUTFALL 001 SEMI-ANNUAL																	
Report Dates & Status																				
Monitoring Period:	From 01/01/19 to 06/30/19		DMR Due Date:	07/28/19						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:	--																			
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type			
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units				
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample						<		0.005	<	0.005	19 - mg/L	02/YR - Twice Per Year	GR - GRAB		
					Permit Req.								Req Mon MO AVG	<=	.005 DAILY MX	19 - mg/L 0	02/YR - Twice Per Year	GR - GRAB		
					Value NODI															
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample						=		0.014	=	0.014	19 - mg/L	02/YR - Twice Per Year	24 - COMP24		
					Permit Req.								Req Mon MO AVG	<=	2 DAILY MX	19 - mg/L 0	02/YR - Twice Per Year	24 - COMP24		
					Value NODI															
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample						=		0.0017	=	0.0017	19 - mg/L	02/YR - Twice Per Year	24 - COMP24		
					Permit Req.								Req Mon MO AVG	<=	.079 DAILY MX	19 - mg/L 0	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	02/YR - Twice Per Year	24 - COMP24		
					Permit Req.								Req Mon MO AVG	<=	.13 DAILY MX	19 - mg/L 0	02/YR - Twice Per Year	24 - COMP24		
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<		0.00017	<	0.00017	19 - mg/L	02/YR - Twice Per Year	24 - COMP24		
					Permit Req.								Req Mon MO AVG	<=	.006 DAILY MX	19 - mg/L 0	02/YR - Twice Per Year	24 - COMP24		
					Value NODI															
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample						<		0.00036	<	0.00036	19 - mg/L	02/YR - Twice Per Year	24 - COMP24		
					Permit Req.								Req Mon MO AVG	<=	.11 DAILY MX	19 - mg/L 0	02/YR - Twice Per Year	24 - COMP24		
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<		0.00022	<	0.00022	19 - mg/L	02/YR - Twice Per Year	24 - COMP24		
					Permit Req.								Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L 0	02/YR - Twice Per Year	24 - COMP24		
					Value NODI															
39410	Heptachlor	1 - Effluent Gross	0	--	Sample						<		0.0063	<	0.0063	28 - ug/L	02/YR - Twice Per Year	GR - GRAB		
					Permit Req.								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 750-2.5(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, 6NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL's for Settleable Solids and total Residual Chlorine analyses performed by the CHBWV wastewater treatment facility, are 0.1 ml/L and 0.01 mg/L respectively.																				
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:	2019-07-17 09:35 (Time Zone: -04:00)																			
Report Last Signed By																				
User:	janice.williams@chbwv.com																			

Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2019-07-17 13:56 (Time Zone: -04:00)

DMR Copy of Record

Permit

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

Report Dates & Status

Monitoring Period:	From 01/01/19 to 06/30/19	DMR Due Date:	07/28/19	Status:	NetDMR Validated
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Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

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

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration			# of Ex.	Frequency of Analysis	Sample Type					
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2				Value 2	Qualifier 3	Value 3	Units	
01022	Boron, total [as B]	V - See Comments	0	--	Sample								=	0.038	19 - mg/L	02/YR - Twice Per Year	24 - COMP24				
					Permit Req.											<=	2 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI																
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample								<	0.0011	19 - mg/L	02/YR - Twice Per Year	24 - COMP24				
					Permit Req.											<=	.65 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI																
71870	Bromide [as Br]	V - See Comments	0	--	Sample								=	0.15	19 - mg/L	02/YR - Twice Per Year	24 - COMP24				
					Permit Req.											<=	5 DAILY MX	19 - mg/L	0	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 750-2.5(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, 6NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL's for Settleable Solids and total Residual Chlorine analyses performed by the CHBWV wastewater treatment facility, are 0.1 mL/L and 0.01 mg/L respectively.

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: 2019-07-17 09:35 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
 Name: Janice Williams
 E-Mail: janice.williams@chbwv.com
 Date/Time: 2019-07-17 13:56 (Time Zone: -04:00)

DMR Copy of Record

Permit

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

Report Dates & Status

Monitoring Period:	From 06/01/19 to 06/30/19	DMR Due Date:	07/28/19	Status:	NetDMR Validated
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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: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units	
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample													19 - mg/L	01/30 - Monthly	CA - CALCTD
					Permit Req. Value NODI							Req Mon MO AVG <=	22 DAILY MX		C - No Discharge	C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI							>= 3 MINIMUM		Req Mon MAXIMUM		C - No Discharge				C - No Discharge
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req. Value NODI							Req Mon MO AVG <=	10 DAILY MX		C - No Discharge	C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample												12 - SU	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI							>= 6.5 MINIMUM		<= 8.5 MAXIMUM		C - No Discharge				C - No Discharge
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req. Value NODI							<= 30 MO AVG	<= 45 DAILY MX		C - No Discharge	C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												25 - mL/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI							Req Mon MO AVG <=	.3 DAILY MX		C - No Discharge	C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI							Req Mon MO AVG <=	15 DAILY MX		C - No Discharge	C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/30 - Monthly	24 - COMP24	
					Permit Req. Value NODI							Req Mon MO AVG <=	.1 DAILY MX		C - No Discharge	C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/30 - Monthly	24 - COMP24	
					Permit Req. Value NODI							Req Mon MO AVG		Req Mon DAILY MX		C - No Discharge				C - No Discharge
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req. Value NODI							Req Mon MO AVG		Req Mon DAILY MX		C - No Discharge				C - No Discharge
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req. Value NODI							<= 1.49 MO AVG	<= 2.1 DAILY MX		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. Value NODI							Req Mon MO AVG		Req Mon DAILY MX	03 - MGD	C - No Discharge				C - No Discharge
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/30 - Monthly	GR - GRAB	
					Permit Req. Value NODI							Req Mon MO AVG <=	.1 DAILY MX		C - No Discharge	C - No Discharge				
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI							Req Mon MO AVG		Req Mon DAILY MX		C - No Discharge				C - No Discharge
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample												3M - ng/L	01/30 - Monthly	GR - GRAB	
					Permit Req. Value NODI							Req Mon MO AVG <=	50 DAILY MX		C - No Discharge	C - No Discharge				

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2019-07-17 09:35 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2019-07-17 13:56 (Time Zone: -04:00)

DMR Copy of Record

Permit

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

Report Dates & Status

Monitoring Period:	From 06/01/19 to 06/30/19	DMR Due Date:	07/28/19	Status:	NetDMR Validated
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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: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units		
00056	Flow rate	1 - Effluent Gross	0	--	Sample																
					Permit Req.	Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d											01/07 - Weekly	CN - CONTIN
					Value NODI	C - No Discharge		C - No Discharge													
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample																
					Permit Req.							Req Mon MO AVG <=	50 DAILY MX	3M - ng/L						02/BA - Twice Per Batch	GR - GRAB
					Value NODI							C - No Discharge		C - No Discharge							

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbvw.com
 Name: William Kean
 E-Mail: william.kean@chbvw.com
 Date/Time: 2019-07-17 09:35 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbvw.com
 Name: Janice Williams
 E-Mail: janice.williams@chbvw.com
 Date/Time: 2019-07-17 13:56 (Time Zone: -04:00)

DMR Copy of Record

Permit																		
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY					Facility:	WEST VALLEY DEMONSTRATION PROJ									
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585					Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799									
Permitted Feature:	116 Internal Outfall	Discharge:	116-M PSEUDO MON. POINT @FRANKS CRK															
Report Dates & Status																		
Monitoring Period:	From 06/01/19 to 06/30/19		DMR Due Date:	07/28/19				Status:	NetDMR Validated									
Considerations for Form Completion																		
IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A'IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.																		
Principal Executive Officer																		
First Name:	Bryan C.		Title:	Director, USDOE-WVDP					Telephone:	716-942-4368								
Last Name:	Bower																	
No Data Indicator (NODI)																		
Form NODI:	--																	
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
Code	Name			Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
70295	Solids, total dissolved	Z - Instream Monitoring	0	--														
				Sample														
				Permit Req.									Req Mon MO AVG <=	500 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:	2019-07-17 09:35 (Time Zone: -04:00)																	
Report Last Signed By																		
User:	janice.williams@chbwv.com																	
Name:	Janice Williams																	
E-Mail:	janice.williams@chbwv.com																	
Date/Time:	2019-07-17 13:56 (Time Zone: -04:00)																	

DMR Copy of Record

Permit																		
Permit #:	NY0000973				Permittee:	U.S. DEPT OF ENERGY				Facility:	WEST VALLEY DEMONSTRATION PROJ							
Major:	Yes				Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585				Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799							
Permitted Feature:	SUM Internal Outfall				Discharge:	SUM-N SUM OF OUTFALLS 1 & 7												
Report Dates & Status																		
Monitoring Period:	From 06/01/19 to 06/30/19				DMR Due Date:	07/28/19				Status:	NetDMR Validated							
Considerations for Form Completion																		
Principal Executive Officer																		
First Name:	Bryan C.				Title:	Director, USDOE-WVDP				Telephone:	716-942-4368							
Last Name:	Bower																	
No Data Indicator (NODI)																		
Form NODI:	--																	
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
Code	Name			Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe] 2 - Effluent Net	0	--	Sample														
				Permit Req.									Req Mon MO AVG <=	1 DAILY MX	19 - mg/L		01/30 - Monthly	CA - CALCTD
				Value NODI									C - No Discharge	C - No Discharge				
Submission Note																		
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																		
Edit Check Errors																		
No errors.																		
Comments																		
Attachments																		
												Name	Type	Size				
												WVDP_June_2019_Net_Iron_Calculation.pdf	pdf	275936				
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:	2019-07-17 09:36 (Time Zone: -04:00)																	
Report Last Signed By																		
User:	janice.williams@chbwv.com																	
Name:	Janice Williams																	
E-Mail:	janice.williams@chbwv.com																	
Date/Time:	2019-07-17 13:56 (Time Zone: -04:00)																	

Attachment B

**Storm Water Discharge Monitoring Results for
January 1, 2019 through June 30, 2019
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: January 1 through June 30, 2019**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab	Flow-weighted Composite		
Group A Parameters	pH	7.6	S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	2.7		N.R.	15 mg/L
	BOD-5	< 2.0		< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	35		59	
	Total Dissolved Solids (TDS)	530		340	
	Phosphorus, Total	0.028		0.11	
Group B Parameters	Aluminum	0.82		2.8	
	Iron	0.95		2.9	
	Copper, Total Recoverable (TR)	0.0018		0.0046	
	Lead (TR)	0.0022		0.0033	
	Zinc (TR)	0.0087		0.024	
Group C Parameters	Total Nitrogen (as N)	< 0.19		< 0.24	
	TKN	< 0.15		< 0.15	
	Nitrate Nitrogen (as N)	< 0.020		0.072	
	Nitrite Nitrogen (as N)	< 0.020		< 0.020	
	Ammonia Nitrogen (as NH3)	< 0.0090		< 0.0090	
	Cadmium, TR	< 0.000071		< 0.000071	
	Chromium, TR	0.00096		0.0035	
	Hexavalent Chromium, TR	0.0050		0.024	
	Selenium, TR	< 0.00044		< 0.00044	
	Vanadium, TR	0.0018		0.0059	
	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.		650,000	
	Maximum Flow rate, gallons per minute	6,100		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/13/19		5/13/19	
	Duration of storm event, in minutes	N.R.		1,260	Rain started at 0315 EDT on 5/13/19 and ended at 0015 EDT on 5/14/19.
	Date and Time of sample collection	5/13/19 1015		5/13/19 1255	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		0.32	An additional 0.12 inches was recorded after sampling was completed for a storm event total of 0.44 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		65	Precipitation of 0.64 inches was recorded on 5/10/19 at 1015 EDT. No flow above base flow upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S06
Monitoring Period: January 1 through June 30, 2019**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.4 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	17	7.5	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	66	22	
	Total Dissolved Solids (TDS)	400	140	*Please see synopsis regarding this outfall. Sample was not measured.
	Phosphorus, Total	0.16	0.12	
Group B Parameters	Aluminum	0.79	0.49	
	Iron	5.0	2.7	
	Copper, Total Recoverable (TR)	0.0053	0.0038	
	Lead (TR)	0.0030	0.0018	
	Zinc (TR)	0.041	0.022	
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)	0.00 *	0.00 *	
	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.	190,000	
	Maximum Flow rate, gallons per minute	2,800	N.R.	
	Method of flow measurement	ISCO Flow Meter		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	06/20/19	06/20/19	Rain started at 0600 EDT on 6/20/19 and ended at 0100 EDT on 6/21/19.
	Duration of storm event, in minutes	N.R.	1,140	
	Date and Time of sample collection	06/20/19 0655	06/20/19 0940	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	1.65	An addition 0.62 inches was recorded after sampling was complete for a storm event total of 2.27 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	86	Precipitation of 0.51 inches was recorded on 6/16/19 at 1630 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S09
Monitoring Period: January 1 through June 30, 2019**

Parameter Group	Parameter	Results in mg/L, Mercury, total in ng/L via method 1631		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	3.2	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	81	330	
	Total Dissolved Solids (TDS)	480	160	
	Phosphorus, Total	0.11	0.52	
Group B Parameters	Aluminum	5.1	11	
	Iron	6.8	14	
	Copper, Total Recoverable (TR)	0.014	0.023	
	Lead (TR)	0.0083	0.017	
	Zinc (TR)	0.071	0.13	
Group C Parameters	Total Nitrogen (as N)	< 0.86	0.86	
	TKN	0.66	0.71	
	Nitrate Nitrogen (as N)	0.18	0.067	
	Nitrite Nitrogen (as N)	< 0.020	0.083	
	Ammonia Nitrogen (as NH3)	0.013	0.12	
	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	< 0.0000062	< 0.0000063	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	22	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	160,000	
	Maximum Flow rate, gallons per minute	1,300	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/13/19	5/13/19	
	Duration of storm event, in minutes	N.R.	1,260	Rain started at 0315 EDT on 5/13/19 and ended at 0015 EDT on 5/14/19.
	Date and Time of sample collection	5/13/19 1015	5/13/19 1300	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.32	An additional 0.12 inches was recorded after sampling was completed for a storm event total of 0.44 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	65	Precipitation of 0.64 inches was recorded on 5/10/19 at 1015 EDT. No flow above base flow upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: January 1 through June 30, 2019**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	3.7 / 4.3	N.R.	15 mg/L
	BOD-5	2.7 / 2.5	< 2.0	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	360 / 340	550	
	Total Dissolved Solids (TDS)	400 / 390	360	
	Phosphorus, Total	0.79 / 0.83	0.97	
Group B Parameters	Aluminum	14 / 9.5	20	Not specified in permit. N.R. = Nor Required.
	Iron	20 / 14	28	
	Copper, Total Recoverable (TR)	0.024 / 0.026	0.033	
	Lead (TR)	0.020 / 0.020	0.025	
	Zinc (TR)	0.20 / 0.21	0.25	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013 / < 0.013	< 0.013	
	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.	18,000	
	Maximum Flow rate, gallons per minute	530	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/29/19	5/29/19	Rain started at 1200 EDT on 5/29/19 and ended at 1300 EDT on 5/29/19.
	Duration of storm event, in minutes	N.R.	60	
	Date and Time of sample collection	5/29/19 1240	5/29/19 1525	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.13	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	21	

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S28
Monitoring Period: January 1 through June 30, 2019**

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	7.6	S.U.	N.R.	Not specified in permit.
	Oil and Grease	3.1		N.R.	15 mg/L
	BOD-5	4.8		3.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	100		68	
	Total Dissolved Solids (TDS)	180		120	
	Phosphorus, Total	0.23		0.17	The Surfactant results for the first flush grab and composite samples were flagged "R" unreliable during the data validation process due to missed holding times and/or spike recovery failures.
Group B Parameters	Aluminum	5.5		3.7	
	Iron	4.5		3.0	
	Copper, Total Recoverable (TR)	0.0083		0.0064	
	Lead (TR)	0.0093		0.0042	
	Zinc (TR)	0.034		0.022	
Group C Parameters	Total Nitrogen (as N)	< 0.83		< 0.71	The Sulfide result on the first flush grab sample was flagged "R" unreliable during the data validation process due to a spike recovery failure.
	TKN	0.77		0.64	
	Nitrate Nitrogen (as N)	0.044		0.047	
	Nitrite Nitrogen (as N)	< 0.020		< 0.020	
	Ammonia Nitrogen (as NH3)	0.054		0.051	
	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	0.011		0.0070	
	Surfactant (as LAS)	< 0.013 "R"		< 0.013 "R"	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	0.3		0.3	
	Sulfide	< 0.050 "R"		< 0.050	
Paraquat Dichloride	N. R.		N. R.		
Flow	Total Flow, gallons	N.R.		140,000	
	Maximum Flow rate, gallons per minute	1,300		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/20/19		6/20/19	
	Duration of storm event, in minutes	N.R.		1,140	Rain started at 0600 EDT on 6/20/19 and ended at 0100 EDT on 6/21/19.
	Date and Time of sample collection	6/20/19 0655		6/20/19 0940	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		1.64	An additional 0.63 inches was recorded after sampling was completed for a storm event total of 2.27 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event		N.R.		86

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S38
Monitoring Period: January 1 through June 30, 2019**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab	Flow-weighted Composite		
Group A Parameters	pH	8.0	S.U.	N.R.	Not specified in permit. 15 mg/L
	Oil and Grease	2.3		N.R.	
	BOD-5	< 2.0		< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	630		430	
	Total Dissolved Solids (TDS)	170		190	
	Phosphorus, Total	0.99		0.84	The Surfactant results for the first flush grab and composite samples were flagged "R" unreliable during the data validation process due to missed holding times and/or spike recovery failures.
Group B Parameters	Aluminum	26		20	
	Iron	29		22	
	Copper, Total Recoverable (TR)	0.025		0.022	
	Lead (TR)	0.014		0.011	
	Zinc (TR)	0.089		0.074	
Group C Parameters	Total Nitrogen (as N)	< 1.7		< 1.4	
	TKN	1.4		1.1	
	Nitrate Nitrogen (as N)	0.23		0.23	
	Nitrite Nitrogen (as N)	< 0.020		< 0.020	
	Ammonia Nitrogen (as NH3)	0.054		0.042	
	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	0.050		0.055	
	Surfactant (as LAS)	< 0.013 "R"		< 0.013 "R"	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	0.2		0.2	
	Sulfide	< 0.050		< 0.050	
	Paraquat Dichloride	N.R.		N.R.	
Flow	Total Flow, gallons	N.R.		110,000	
	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	6/20/19		6/20/19	
	Duration of storm event, in minutes	N.R.		1,140	Rain started at 0600 EDT on 6/20/19 and ended at 0100 EDT on 6/21/19.
	Date and Time of sample collection	6/20/19 0700		6/20/19 0940	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		1.65	An additional 0.62 inches was recorded for a storm event total of 2.27 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event		N.R.	86	Precipitation of 0.51 inches was recorded on 6/16/19 at 1630 EDT. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: January 1 through June 30, 2019**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.3	N.R.	15 mg/L
	BOD-5	7.2	2.7	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	550	44	
	Total Dissolved Solids (TDS)	210	31	
	Phosphorus, Total	1.5	0.092	
Group B Parameters	Aluminum	3.4	1.5	
	Iron	6.2	1.9	
	Copper, Total Recoverable (TR)	0.031	0.0029	
	Lead (TR)	0.019	0.0012	
	Zinc (TR)	0.17	0.013	
Group C Parameters	Total Nitrogen (as N)	3.7	2.0	
	TKN	2.3	1.1	
	Nitrate Nitrogen (as N)	1.3	0.84	
	Nitrite Nitrogen (as N)	0.091	0.043	
	Ammonia Nitrogen (as NH3)	0.18	0.78	
	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	0.023	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.050	< 0.050	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	43,000	
	Maximum Flow rate, gallons per minute	360	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/07/19	5/07/19	
	Duration of storm event, in minutes	N.R.	180	Rain started at 1245 EDT on 5/07/19 and ended at 1545 EDT on 5/07/19.
	Date and Time of sample collection	5/07/19 1310	5/07/19 1600	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.15	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	92	Precipitation of 0.22 inches was recorded on 5/3/19 at 1600 EDT. No flow at outfall upon arrival.

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

Monitoring Period: January 1 through June 30, 2019

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.1	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required. The Surfactant result for the first flush grab sample was flagged "R" unreliable during the data validation process due to a matrix spike failure.
	Total Suspended Solids (TSS)	290	250	
	Total Dissolved Solids (TDS)	320	170	
	Phosphorus, Total	0.45	0.38	
Group B Parameters	Aluminum	9.8	8.7	
	Iron	10	9.0	
	Copper, Total Recoverable (TR)	0.012	0.011	
	Lead (TR)	0.021	0.019	
	Zinc (TR)	0.057	0.052	
Group C Parameters	Total Nitrogen (as N)	0.90	< 0.80	
	TKN	0.80	0.72	
	Nitrate Nitrogen (as N)	0.048	< 0.020	
	Nitrite Nitrogen (as N)	0.047	0.056	
	Ammonia Nitrogen (as NH3)	0.019	0.016	
	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 *R*	< 0.013	
	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.	38,000	
	Maximum Flow rate, gallons per minute	360	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/13/19	5/13/19	
	Duration of storm event, in minutes	N.R.	1260	Rain started at 0315 EDT on 5/13/19 and ended at 0015 EDT on 5/14/19.
	Date and Time of sample collection	5/13/19 1030	5/13/19 1320	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.33	An additional 0.11 inches was recorded after sampling was completed for a storm event total of 0.44 inches
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	65	Precipitation of 0.64 inches was recorded on 5/10/19 at 1015 EDT. There was no flow at outfall upon arrival.