

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:2020:0008
January 15, 2020

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2019, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2019 through December 31, 2019

REFERENCES: 1) Letter WR:2011:0061, John D. Rendall to C. S. Haugh, "State Pollutant Discharge Elimination System (SPDES) Schedule of Compliance Action for the Water Treatment Chemicals, SPDES Permit No. NY-0000793, West Valley Demonstration Project (WVDP)," dated December 20, 2011

2) Letter WR:2013:0033, John Rendall to Mark Jackson, "Notification of Changes to the West Valley Demonstration Project (WVDP) Wastewater Generation Activities in Accordance with 6 NYCRR 750-2.6(c); State Pollutant Discharge Elimination System (SPDES) Permit No. NY-0000973, U.S. Department of Energy (DOE), West Valley Demonstration Project (WVDP)," dated August 13, 2013

Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period December 1 through December 31, 2019 including the Net Iron calculation sheet has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

Also attached are the results of the storm water monitoring for the period of July 1, 2019 through December 31, 2019, and the Annual Review Certification of the Storm Water Pollution Prevention Plan/Best Management Practices (SWPPP/BMP).

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

Sincerely,



Scott A. Anderson
President & General Manager

SAA:WKN:bnj

Attachments: A) SPDES DMR for December 1 through December 31, 2019 Monitoring Period
B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2019 Monitoring Period
C) CHBWV Environmental Certification
D) WVDP SPDES Permit "Special Conditions – Industry Best Management Practices," Permittee Certification of the Annual Review
E) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP
C. Chun, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
J. D. Rendall, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
D. P. Klenk, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1930186

Attachment A

SPDES DMR for December 1 – 31, 2019

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2019, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2019 through December 31, 2019

The SPDES DMR for the December 1 through December 31, 2019 Monitoring Period is provided as Attachment A. There was no discharge at outfall 001, 007, 116, Sum N or internal outfall 01B during the monitoring period of December 1, 2019 through December 31, 2019. Please also note that there were no discharges at outfall 007 during the 2019 calendar year as denoted on the 007-V Discharge Monitoring Report (DMR).

In addition to reporting the semi-annual and 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 July 1, 2019 through December 31, 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 August 13, October 3, October 16, and October 22, 2019. The on-site pH measured near the site's rain gauge on each of these dates was: 7.9 SU; 6.0 SU; 6.7 SU; and 6.6 SU, respectively.

In addition, semi-annual lead sampling was completed on October 22, 2019 at storm water outfall S43 located at the Live Fire Range with reported results of 0.001 mg/L with an action level of 0.006 mg/L.

Storm water sampling that was conducted on October 3, 2019 at outfall S34 was completed although the duration between storm events was less than the 72 hours (22) as normally required, however flow at the outfall had returned to base flow prior to the storm event sampled.

Storm water sampling that was conducted on October 16, 2019 at outfalls S04, S33 and S12 was completed although the duration between storm events was less than the 72 hours (37) as normally required, however flow at the outfalls had returned to base flow (S04 and S12) prior to the storm event or no flow existed at the outfall (S33) prior to the storm event sampled.

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 along portions of the railroad spur located onsite on June 11-12, 2019 and therefore, storm water outfalls that could possibly be effected (S17, S28, S34, S36 and S39) were sampled for Paraquat Dichloride on August 12, 2019 during the second semi-annual monitoring period.

OUTFALL	DATE	PARAMETER	RESULT	UNITS
S17	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S28	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S34	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S36	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S39	8/12/19	Paraquat Dichloride	< 0.002	mg/L

As required on page 30 of 31 under General Requirements, J.3, Water Treatment Chemicals (WTCs), the WVDP has not used any water treatment chemicals during 2019 and therefore we have not included a WTC Annual Report Form for 2019.

In accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP completed the annual review of the BMP/SWPPP (Attachment C) and a revision to the Best Management Practices (BMP's) is not required at this time.

As indicated within the Synopsis for the State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the period December 1 through December 31, 2018 an "update" to the Storm Water Pollutant Prevention Plan (SWPPP) was required and was completed in 2019. The completed document "Clean Water Act/State Pollutant Discharge Elimination System Best Management Practices and Storm Water Pollution Prevention Plan for the West Valley Demonstration Project" (WVDP-206) was forwarded to the Regional Engineer on April 2, 2019.

SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2019
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 0.00 \text{ mg/month}$$

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

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

$$V1 = 0.000 \text{ L/month}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

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

Facility:
Facility Location:

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

Permitted Feature:

001
External Outfall

Discharge:

001-A
OUTFALL 001 ANNUAL

Report Dates & Status

Monitoring Period:

From 01/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.00007	<	0.00007	19 - mg/L		01/YR - Annual	24 - COMP24
					Permit Req.									Req Mon MO AVG <=	0.002 DAILY MX	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Value NODI														
34488	Trichlorofluoromethane	1 - Effluent Gross	0	--	Sample							<	0.0005	<	0.0005	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.01 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample							<	0.0008	<	0.0008	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.							<=	0.005 MO AVG	<=	0.01 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
34668	Dichlorodifluoromethane	1 - Effluent Gross	0	--	Sample							<	0.0003	<	0.0003	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.01 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
39337	.alpha.-BHC	1 - Effluent Gross	0	--	Sample							<	0.006	<	0.006	28 - ug/L		01/YR - Annual	GR - GRAB
					Permit Req.							<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
39700	Hexachlorobenzene	1 - Effluent Gross	0	--	Sample							<	0.05	<	0.05	28 - ug/L		01/YR - Annual	GR - GRAB
					Permit Req.							<=	0.2 MO AVG		Req Mon DAILY MX	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
77819	Tri-n-butyl phosphate	1 - Effluent Gross	0	--	Sample							<	0.0008	<	0.0008	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
78247	Chromium, hexavalent tot recoverable	1 - Effluent Gross	0	--	Sample							<	0.005	<	0.005	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.011 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
78356	2-Butanone	1 - Effluent Gross	0	--	Sample							<	0.002	<	0.002	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.5 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														
81551	Xylene [mix of m+o+p]	1 - Effluent Gross	0	--	Sample							<	0.001	<	0.001	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.05 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														

Submission Note

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

Edit Check Errors

No errors.

Comments

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

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

william.kean@chbwv.com

Name:

William Kean

E-Mail:	william.kean@chbvv.com
Date/Time:	2020-01-14 07:39 (Time Zone: -05:00)
<i>Report Last Signed By</i>	
User:	janice.williams@chbvv.com
Name:	Janice Williams
E-Mail:	janice.williams@chbvv.com
Date/Time:	2020-01-14 13:44 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

001
External Outfall

Discharge:

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

Report Dates & Status

Monitoring Period:

From 12/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type	
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units				
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample													Req Mon MAXIMUM	19 - mg/L	02/BA - Twice Per Batch	GR - GRAB
					Permit Req. Value NODI					>=	3.0 MINIMUM							C - No Discharge			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI					>=	6.5 MINIMUM				<=	8.5 MAXIMUM	12 - SU				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample															02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample															02/BA - Twice Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L			
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L			
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample															02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG	<=	0.4 DAILY MX	19 - mg/L			
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG	<=	0.15 DAILY MX	19 - mg/L			
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L			
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	0.004 DAILY MX	19 - mg/L			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

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

Facility:
Facility Location:

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

Permitted Feature:

001
External Outfall

Discharge:

001-S
OUTFALL 001 SEMI-ANNUAL

Report Dates & Status

Monitoring Period:

From 07/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample							<	0.002	<	0.002	19 - mg/L		02/YR - Twice Per Year	GR - GRAB	
					Permit Req.									Req Mon MO AVG	<=	0.005 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							=	0.015	=	0.015	19 - mg/L		02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									Req Mon MO AVG	<=	2.0 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							=	0.0011	=	0.0011	19 - mg/L		02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample							=	0.0056	=	0.0056	19 - mg/L		02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.0005	<	0.0005	19 - mg/L		02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample							<	0.001	<	0.001	19 - mg/L		02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample							=	0.0008	=	0.0008	19 - mg/L		02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
39410	Heptachlor	1 - Effluent Gross	0	--	Sample							<	0.006	<	0.006	28 - ug/L		02/YR - Twice Per Year	GR - GRAB	
					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@chbvw.com

Name:

William Kean

E-Mail:

william.kean@chbvw.com

Date/Time:

2020-01-14 07:36 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbvw.com



DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

001
External Outfall

Discharge:

001-U
OUTFALL 001 ACTION LEVELS ANNUAL

Report Dates & Status

Monitoring Period:

From 01/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01007	Barium, total [as Ba]	V - See Comments	0	--	Sample									=	0.03	19 - mg/L		01/YR - Annual	24 - COMP24
					Permit Req.									<=	0.5 DAILY MX	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Value NODI														
01097	Antimony, total [as Sb]	V - See Comments	0	--	Sample									<	0.0068	19 - mg/L		01/YR - Annual	24 - COMP24
					Permit Req.									<=	1.0 DAILY MX	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Value NODI														
32106	Chloroform	V - See Comments	0	--	Sample									<	0.0005	19 - mg/L		01/YR - Annual	GR - GRAB
					Permit Req.									<=	0.3 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI														

Submission Note

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

Edit Check Errors

No errors.

Comments

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

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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Name:

William Kean

E-Mail:

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Date/Time:

2020-01-14 07:36 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2020-01-14 13:44 (Time Zone: -05:00)

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 07/01/19 to 12/31/19	DMR Due Date:	01/28/20	Status:	NetDMR Validated
--------------------	---------------------------	---------------	----------	---------	------------------

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: --

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			
01022	Boron, total [as B]	V - See Comments	0	--	Sample									=	0.047	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.														
					Value NODI														
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample									<	0.001	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.														
					Value NODI														
71870	Bromide [as Br]	V - See Comments	0	--	Sample									<	0.067	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.														
					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 CHBWW 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:	2020-01-14 07:36 (Time Zone: -05:00)

Report Last Signed By

User:	janice.williams@chbwv.com
Name:	Janice Williams
E-Mail:	janice.williams@chbwv.com
Date/Time:	2020-01-14 13:44 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

007
External Outfall

Discharge:

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

Report Dates & Status

Monitoring Period:

From 12/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CA - CALCTD
					Permit Req.									Req Mon MO AVG <=	22.0 DAILY MX	19 - mg/L				
					Value NODI									C - No Discharge	C - No Discharge					
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.					>=		3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L			
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.									Req Mon MO AVG <=	10.0 DAILY MX	19 - mg/L				
					Value NODI									C - No Discharge	C - No Discharge					
00400	pH	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.					>=		6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	0.3 DAILY MX	25 - mL/L				
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	15.0 DAILY MX	19 - mg/L				
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - COMP24
					Permit Req.									Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L				
					Value NODI									C - No Discharge		C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon MO AVG <=		0.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon MO AVG <=		50.0 DAILY MX	3M - ng/L			
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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E-Mail:

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Date/Time:

2020-01-14 07:36 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbww.com

Name:

Janice Williams

E-Mail:

janice.williams@chbww.com

Date/Time:

2020-01-14 13:44 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

007
External Outfall

Discharge:

007-V
OUTFALL 007 ANNUAL MONITORING

Report Dates & Status

Monitoring Period:

From 01/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading				Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	
32106	Chloroform	1 - Effluent Gross	0	--	Sample													
					Permit Req.										<=	0.2 DAILY MX	19 - mg/L	
					Value NODI											C - No Discharge		

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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Name:

William Kean

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Date/Time:

2020-01-14 07:35 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbww.com

Name:

Janice Williams

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janice.williams@chbww.com

Date/Time:

2020-01-14 13:44 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

01B
Internal Outfall

Discharge:

01B-M
MERCURY PRETREATMENT

Report Dates & Status

Monitoring Period:

From 12/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00056	Flow rate	1 - Effluent Gross	0	--	Sample														01/07 - Weekly	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d										
					Value NODI		C - No Discharge		C - No Discharge											
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	GR - GRAB
					Permit Req.									Req Mon MO AVG <=		50.0 DAILY MX	3M - ng/L			
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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Name:

William Kean

E-Mail:

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Date/Time:

2020-01-14 07:35 (Time Zone: -05:00)

Report Last Signed By

User:

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Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2020-01-14 13:44 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

116
Internal Outfall

Discharge:

116-M
PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status

Monitoring Period:

From 12/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

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

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Sample														
					Permit Req.									Req Mon MO AVG <=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	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

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2020-01-14 07:35 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2020-01-14 13:44 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

SUM
Internal Outfall

Discharge:

SUM-N
SUM OF OUTFALLS 1 & 7

Report Dates & Status

Monitoring Period:

From 12/01/19 to 12/31/19

DMR Due Date:

01/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
01045	Iron, total [as Fe]	2 - Effluent Net	0	--	Sample													
					Permit Req.								Req Mon MO AVG <=		1.0 DAILY MX	19 - mg/L		01/30 - Monthly
					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

Name	Type	Size
WVDP_December_2019_Net_Iron_Calculation.pdf	pdf	207408.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:

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Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2020-01-14 07:35 (Time Zone: -05:00)

Report Last Signed By

Janice Williams

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2020-01-14 13:44 (Time Zone: -05:00)

Attachment B

**Storm Water Discharge Monitoring Results for
July 1 through December 31, 2019
Monitoring Period**

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: July 1 through December 31, 2019

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.3 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	2.1	N.R.	15 mg/L
	BOD-5	3.7	2.8	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	79	76	
	Total Dissolved Solids (TDS)	460	250	
	Phosphorus, Total	0.26	0.17	
Group B Parameters	Aluminum	0.47	1.5	
	Iron	3.7	5.4	
	Copper, Total Recoverable (TR)	< 0.0030	0.0049	
	Lead (TR)	0.00093	0.0058	
	Zinc (TR)	0.015	0.035	
Group C Parameters	Total Nitrogen (as N)	< 1.1	< 1.1	
	TKN	1.1	0.91	
	Nitrate Nitrogen (as N)	< 0.033	0.12	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.22	0.19	
	Cadmium, TR	< 0.00030	< 0.00030	
	Chromium, TR	< 0.0010	0.0019	
	Hexavalent Chromium, TR	< 0.0050	< 0.0050	
	Selenium, TR	< 0.0020	< 0.0020	
	Vanadium, TR	< 0.0010	0.0025	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Paraquat Dichloride	N.R.	N.R.	
	Total Flow, gallons	N.R.	490,000	
	Maximum Flow rate, gallons per minute	4,500	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/16/19	10/16/19	
	Duration of storm event, in minutes	N.R.	960	Rain started at 0900 EDT on 10/16/19 and ended at 0100 EDT on 10/17/19.
	Date and Time of sample collection	10/16/19 1020	10/16/19 1300	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.69	An additional 0.29 inches was recorded after sampling was completed for a storm event total of 0.98 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	37	Precipitation of 0.22 inches was recorded on 10/14/19 at 2015 EDT. No flow above base flow upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S33
Monitoring Period: July 1 through December 31, 2019**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.2 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	4.2	1.8	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	110	23	
	Total Dissolved Solids (TDS)	420	340	
	Phosphorus, Total	1.1	0.21	
Group B Parameters	Aluminum	0.41	0.16	
	Iron	18	5.5	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	0.0017	< 0.00050	
	Zinc (TR)	0.022	0.0066	
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	0.014	
	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.	130,000	
	Maximum Flow rate, gallons per minute	4,400	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/16/19	10/16/19	
	Duration of storm event, in minutes	N.R.	960	Rain started at 0900 EDT on 10/16/19 and ended at 0100 EDT on 10/17/19.
	Date and Time of sample collection	10/16/19 1035	10/16/19 1315	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.69	An additional 0.29 inches was recorded after sampling at this outfall was completed for a storm total of 0.98 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	37	Precipitation of 0.22 inches was recorded on 10/14/19 at 2015 EDT. There was no flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S12/Duplicate
Monitoring Period: July 1 through December 31, 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	7.2/7.2 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.6 / 2.0	N.R.	15 mg/L
	BOD-5	3.2 / 3.4	4.7	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	140 / 160	38	
	Total Dissolved Solids (TDS)	870 / 720	440	
	Phosphorus, Total	0.26	0.23	
Group B Parameters	Aluminum	0.62 / 0.62	1.5	
	Iron	1.4 / 1.5	3.4	
	Copper, Total Recoverable (TR)	0.0060 / 0.0072	0.0061	
	Lead (TR)	0.0029 / 0.0024	0.0038	
	Zinc (TR)	0.059 / 0.070	0.038	
Group C Parameters	Total Nitrogen (as N)	< 3.5 / < 2.8	< 1.1	
	TKN	3.3 / 2.7	0.84	
	Nitrate Nitrogen (as N)	0.11 / 0.11	0.25	
	Nitrite Nitrogen (as N)	< 0.033 / < 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.45 / 0.31	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	< 0.0000064 < 0.0000067	< 0.0000064	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	21	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	53,000	
	Maximum Flow rate, gallons per minute	440	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/16/19	10/16/19	
	Duration of storm event, in minutes	N.R.	960	Rain started at 0900 EDT on 10/16/19 and ended at 0100 EDT on 10/17/19.
	Date and Time of sample collection	10/16/19 1030	10/16/19 1320	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.70	An additional 0.28 inches was recorded after sampling was completed for a storm total of 0.98 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	37	Precipitation of 0.22 inches was recorded on 10/14/19 at 2015 EDT. Outfall was at base flow conditions.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: July 1 through December 31, 2019

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.9	N.R.	15 mg/L
	BOD-5	< 2.0	2.3	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	180	83	
	Total Dissolved Solids (TDS)	310	300	
	Phosphorus, Total	0.25	0.19	
Group B Parameters	Aluminum	0.65	0.31	
	Iron	1.6	0.66	
	Copper, Total Recoverable (TR)	0.0045	0.0037	
	Lead (TR)	0.0088	0.0054	
	Zinc (TR)	0.055	0.030	
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)	0.086	0.014	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Paraquat Dichloride	< 0.002	N.R.	
	Total Flow, gallons	N.R.	1,200,000	
	Maximum Flow Rate, gallons per minute	10,000	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/3/19	10/3/19	
	Duration of storm event, in minutes	N.R.	975	Rain started at 0500 EDT on 10/3/19 and ended at 2115 EDT on 10/3/19.
	Date and Time of sample collection	10/3/19 0815	10/3/19 1100	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.27	An additional 0.06 inches was recorded after sampling at this outfall was completed for a storm total of 0.33 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	22	Precipitation of 0.44 inches was recorded on 10/2/19 at 0715 EDT. Outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S14
Monitoring Period: July 1 through December 31, 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	6.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	4.4	4.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	41	20	
	Total Dissolved Solids (TDS)	450	360	
	Phosphorus, Total	0.17	0.12	
Group B Parameters	Aluminum	0.17	0.19	
	Iron	3.5	2.5	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	0.00070	0.00064	
	Zinc (TR)	0.012	0.0070	
Group C Parameters	Total Nitrogen (as N)	< 2.4	< 1.8	
	TKN	2.3	1.7	
	Nitrate Nitrogen (as N)	0.090	0.087	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	1.0	0.81	
	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	< 0.0010	< 0.0010	
	Surfactant (as LAS)	0.032	0.015	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.1	0.3	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	85	
	Maximum Flow rate, gallons per minute	2.6	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/13/19	08/13/19	
	Duration of storm event, in minutes	N.R.	405	Rain started at 0445 EDT on 8/13/19 and ended at 1130 EDT on 8/13/19.
	Date and Time of sample collection	08/13/19 1130	08/13/19 1150	
	Sampling Duration (Minutes)	Instantaneous	30	
	Total rainfall during sampling event, in inches	N.R.	0.54	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	98	Precipitation of 0.14 inches was recorded on 8/9/19 at 0315 EDT. No flow at Outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S41
Monitoring Period: July 1 through December 31, 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.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	5.1	3.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	220	360	
	Total Dissolved Solids (TDS)	380	480	
	Phosphorus, Total	0.42	0.35	
Group B Parameters	Aluminum	0.48	0.76	
	Iron	0.76	1.1	
	Copper, Total Recoverable (TR)	0.0050	0.0055	
	Lead (TR)	0.0048	0.0033	
	Zinc (TR)	0.14	0.037	
Group C Parameters	Total Nitrogen (as N)	< 1.8	< 1.3	
	TKN	1.6	1.3	
	Nitrate Nitrogen (as N)	0.13	0.064	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.23	0.13	
	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	< 0.0010	< 0.0010	
	Surfactant (as LAS)	< 0.025	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.5	0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	3,300	
	Maximum Flow rate, gallons per minute	34	N.R.	
	Method of flow measurement	Staff gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/22/19	10/22/19	
	Duration of storm event, in minutes	N.R.	900	Rain started at 0645 EDT on 10/22/19 and ended at 2145 EST on 10/22/19.
	Date and Time of sample collection	10/22/19 1045	10/22/19 1325	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.34	An additional 0.29 inches was recorded after sampling was completed for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	102	Precipitation of 0.65 inches was recorded on 10/18/19 at 0100 EDT. There was no flow at outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: July 1 through December 31, 2019

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	8.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.0	N.R.	15 mg/L
	BOD-5	5.4	1.2	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	7.8	7.9	
	Total Dissolved Solids (TDS)	5.7	61	
	Phosphorus, Total	0.038	0.043	
Group B Parameters	Aluminum	0.093	0.18	
	Iron	0.16	0.22	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	< 0.00050	< 0.00050	
	Zinc (TR)	0.0082	0.0065	
Group C Parameters	Total Nitrogen (as N)	< 0.55	< 0.38	
	TKN	0.32	0.22	
	Nitrate Nitrogen (as N)	0.20	0.13	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.17	0.16	
	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)	< 0.025	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	130,000	
	Maximum Flow rate, gallons per minute	1,800	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/22/19	10/22/19	
	Duration of storm event, in minutes	N.R.	900	Rain started at 0645 EDT on 10/22/19 and ended at 2145 EDT on 10/22/18.
	Date and Time of sample collection	10/22/19 0915	10/22/19 1200	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.32	An additional 0.31 inches was recorded after sampling at this outfall was completed for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	102	Precipitation of 0.65 inches was recorded on 10/18/18 at 0100 EDT. Base flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S35
Monitoring Period: July 1 through December 31, 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	< 1.5	N.R.	15 mg/L
	BOD-5	2.5	1.9	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	170	36	
	Total Dissolved Solids (TDS)	280	230	
	Phosphorus, Total	0.27	0.076	
Group B Parameters	Aluminum	0.75	0.47	
	Iron	1.4	0.79	
	Copper, Total Recoverable (TR)	0.0040	< 0.0030	
	Lead (TR)	0.019	0.0043	
	Zinc (TR)	0.035	0.020	
Group C Parameters	Total Nitrogen (as N)	< 1.8	< 1.0	
	TKN	1.5	0.83	
	Nitrate Nitrogen (as N)	0.30	0.14	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.15	0.13	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	31,000	
	Maximum Flow rate, gallons per minute	300	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/13/19	08/13/19	
	Duration of storm event, in minutes	N.R.	405	Rain started at 0445 EDT on 8/13/19 and ended at 1130 EDT on 8/13/19.
	Date and Time of sample collection	08/13/19 1130	08/13/19 1410	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.54	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	98	Precipitation of 0.14 inches was recorded on 8/9/19 at 0315 EDT. There was no flow at outfall upon arrival.

Attachment C

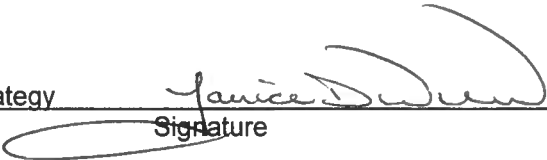
CHBWV Environmental Certification

CHBWV ENVIRONMENTAL CERTIFICATION

1. To be signed by a CHBWV Officer

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

J. D. Williams/V.P. Regulatory Strategy
Name/Title (type or print)


Signature

1-14-2020
Date signed

Attachment D

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

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

I certify under penalty of law that the annual review of the Clean Water Act/SPDES Best Management Practices (BMP) and Storm Water Pollution Prevention Plan (SWPPP) for the WVDP (WVDP-206) was completed by December 31, 2019, as per the "Special Conditions – Industry Best Management Practices" section of the SPDES Permit.



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

01-13-2020

Date

Attachment E

Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Tuesday, January 14, 2020 2:33 PM
To: ewwohlers@cattco.org; Moira Maloney; R9.NetDMR@dec.ny.gov; William Kean; Bonnie Jeffery; Joseph Forti; Michael Pendl; Janice Williams
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973

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

CDX Transaction ID: _3add0f14-3029-49bd-86aa-48158a163d9c

User ID: janice.williams@chbwv.com

Timestamp: 01/14/2020 13:44:09

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001
Discharge: A - OUTFALL 001 ANNUAL
Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001
Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001
Discharge: S - OUTFALL 001 SEMI-ANNUAL
Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001
Discharge: U - OUTFALL 001 ACTION LEVELS ANNUAL Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001
Discharge: V - OUTFALL 001 ACTION LEVELS SEMI-ANNUAL Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 007
Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 007
Discharge: V - OUTFALL 007 ANNUAL MONITORING Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 12/31/19

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 12/31/19

Thank you.

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