

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Bridget M. Purdy, Contracting Officer
U.S. Department of Energy
West Valley Demonstration Project
10282 Rock Springs Road
West Valley, New York 14171

AC-PRES
WD:2018:0073
January 23, 2018

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, 2017, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2017 through December 31, 2017

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

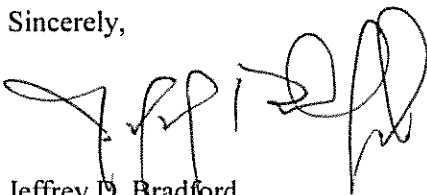
Dear Ms. Purdy:

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, 2017 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, 2017 through December 31, 2017, the Annual Water Treatment Chemical Usage Report and the Annual Review Certification of the SWPPP/BMP.

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

Sincerely,



Jeffrey D. Bradford
President & General Manager

JDB:WKN:bnj

Attachments: A) SPDES DMR for December 1 through December 31, 2017 Monitoring Period
B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2017 Monitoring Period
C) Annual Water Treatment Chemical Usage Report for Calendar Year 2017
D) WVDP SPDES Permit "Special Conditions – Industry Best Management Practices," Permittee Certification of the Annual Review
E) Email Confirmation from NYSDEC

cc: W. Delgado, DOE-EMCBC
T. Taggart, DOE-EMCBC
B. C. Bower, DOE-WVDP
S. A. Anderson, CHBWV
J. J. Baker, CHBWV
J. L. Casper, CHBWV
C. Dayton, CHBWV (Public Reading Room)
N. Feher, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
C. B. Lee, CHBWV
L. J. Ortega, CHBWV
D. H. Pritchard, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1730340

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2017, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2017 through December 31, 2017

Please note that there was no discharge at outfall 001, 007, 116, Sum N or internal outfall 01B during this period.

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, 2017 through December 31, 2017 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 21, September 14, October 11, and November 16 2017. The on-site pH measured near the site's rain gauge on each of these dates was: 9.9 SU; 8.4 SU; 7.2 SU; and 6.0 SU, respectively.

In addition, semi-annual lead sampling was completed on September 14, 2017 at storm water outfall S-43 located at the Live Fire Range with reported results of 0.002 mg/L with an action level of 0.006 mg/L.

Storm water sampling that was conducted on October 11, 2017 at outfalls S12 and S17 was completed although the duration between storm events was less than the 72 hours as normally required; however, flow at the outfalls had returned to normal base flow conditions (S-12) or had no flow prior to the storm event sampled (S-17).

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 not used herbicides during this storm water monitoring period of July 1 through December 31, 2017; and therefore, storm water outfalls were not analyzed for Paraquat Dichloride.

As required on page 30 of 31 under General Requirements, J.3, Water Treatment Chemicals (WTCs), the site has included Attachment C, WTC Annual Report Form for 2017. Please note that the WVDP did not use any water treatment chemicals in 2017.

Finally, in accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP completed the annual review of the BMP/SWPPP as Attachment D. The annual review completed in December 2017 indicates that a revision to the document will be required. The revision will be forwarded to the Regional Water Engineer as indicated on page 18 of 31, under separate cover once it has been completed.

As required in Title 6 of the New York Codes, Rules, and Regulations (6NYCRR) Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) numbers for the laboratories performing analysis for this DMR are as follows:

1. TestAmerica - Buffalo: NY Lab No. 10026; and
2. General Engineering Laboratories: NY Lab No. 11501.

Attachment A

SPDES DMR for December 1 – 31, 2017

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 01/01/17 to 12/31/17

DMR Due Date:

01/28/18

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	<=	.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	<=	.01 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI															
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample							<	0.004	<	0.004	19 - mg/L		01/YR - Annual	GR - GRAB	
					Permit Req.							<=	.005 MO AVG	<=	.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	<=	.01 DAILY MX	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Value NODI															
39337	.alpha.-BHC	1 - Effluent Gross	0	--	Sample							<	0.007	<	0.0007	28 - ug/L		01/YR - Annual	GR - GRAB	
					Permit Req.							<=	.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							<	0.02	<	0.02	28 - ug/L		01/YR - Annual	GR - GRAB	
					Permit Req.							<=	.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							<	0.004	<	0.004	19 - mg/L		01/YR - Annual	GR - GRAB	
					Permit Req.									Req Mon MO AVG	<=	.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	<=	.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	<=	.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	<=	.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

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:	2018-01-22 09:00 (Time Zone: -05:00)
<i>Report Last Signed By</i>	
User:	janice.williams@chbwv.com
Name:	Janice Williams
E-Mail:	janice.williams@chbwv.com
Date/Time:	2018-01-22 09:01 (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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Bryan C.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI									Req Mon MO AVG C - No Discharge		Req Mon DAILY MX C - No Discharge	19 - mg/L			
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	CA - CALCTD
					Permit Req. Value NODI									Req Mon MO AVG <= C - No Discharge		22 DAILY MX C - No Discharge	19 - mg/L			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	GR - GRAB
					Permit Req. Value NODI					>=	3 MINIMUM C - No Discharge					Req Mon MAXIMUM C - No Discharge	19 - mg/L			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI									Req Mon MO AVG <= C - No Discharge		10 DAILY MX C - No Discharge	19 - mg/L			
00400	pH	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI					>=	6.5 MINIMUM C - No Discharge				<=	8.5 MAXIMUM C - No Discharge	12 - SU			
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI								<=	30 MO AVG C - No Discharge	<=	45 DAILY MX C - No Discharge	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 C - No Discharge	<=	.3 DAILY MX C - No Discharge	25 - mL/L			
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample														01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI									Req Mon MO AVG C - No Discharge	<=	15 DAILY MX C - No Discharge	19 - mg/L			
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 C - No Discharge	<=	.1 DAILY MX C - No Discharge	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 C - No Discharge		Req Mon DAILY MX C - No Discharge	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 C - No Discharge		Req Mon DAILY MX C - No Discharge	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 C - No Discharge	<=	.4 DAILY MX C - No Discharge	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 C - No Discharge	<=	.15 DAILY MX C - No Discharge	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 C - No Discharge	<=	.005 DAILY MX C - No Discharge	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 C - No Discharge	<=	.004 DAILY MX C - No Discharge	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 C - No Discharge		Req Mon DAILY MX C - No Discharge	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 07/01/17 to 12/31/17

DMR Due Date:

01/28/18

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							<	0.005	<	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							=	0.043	=	0.043	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							=	0.0023	=	0.0023	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							=	0.0047	=	0.0047	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							<	0.0002	<	0.0002	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							=	0.0014	=	0.0014	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							=	0.0022	=	0.0022	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							<	0.007	<	0.007	28 - ug/L		02/YR - Twice Per Year	GR - GRAB	
					Permit Req.							<=	.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

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:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

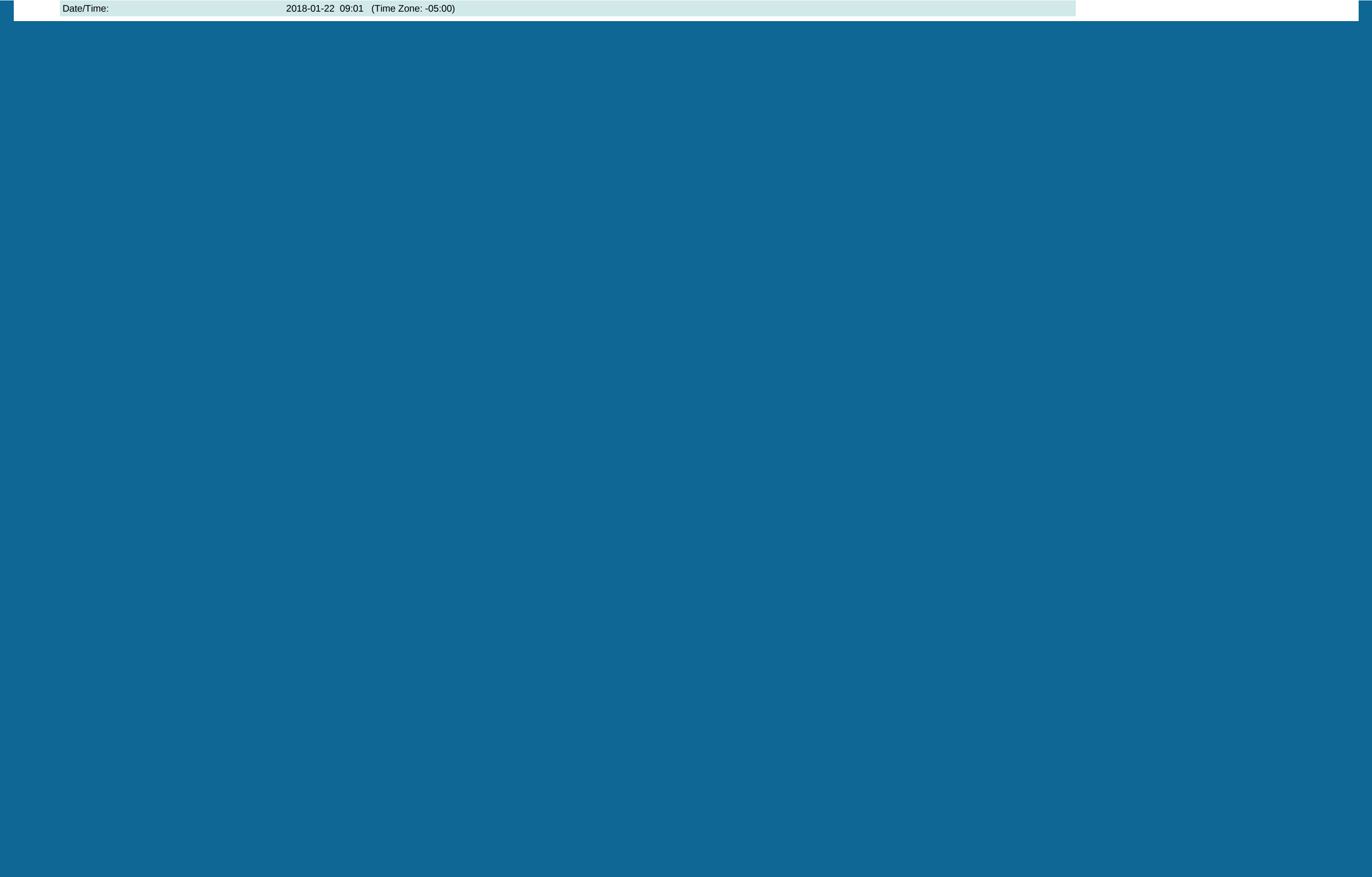
janice.williams@chbvw.com

Name:

Janice Williams

E-Mail:

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 01/01/17 to 12/31/17

DMR Due Date:

01/28/18

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	--											=	0.021	19 - mg/L	
					Sample													
					Permit Req.										<=	.5 DAILY MX	19 - mg/L	0
01097	Antimony, total [as Sb]	V - See Comments	0	--														
					Sample										<	0.0068	19 - mg/L	
					Permit Req.										<=	1 DAILY MX	19 - mg/L	0
32106	Chloroform	V - See Comments	0	--														
					Sample										<	0.00054	19 - mg/L	
					Permit Req.										<=	.3 DAILY MX	19 - mg/L	0
					Value NODI													

Submission Note

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

Edit Check Errors

No errors.

Comments

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:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-01-22 09:01 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

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

Facility:
Facility Location:

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

Permitted Feature:

001
External Outfall

Discharge:

001-V
OUTFALL 001 ACTION LEVELS SEMI-ANNUAL

Report Dates & Status

Monitoring Period:

From 07/01/17 to 12/31/17

DMR Due Date:

01/28/18

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First Name:
Last Name:

Bryan C.
Bower

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Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	
01022	Boron, total [as B]	V - See Comments	0	--	Sample										=	0.055	19 - mg/L	02/YR - Twice Per Year 02/YR - Twice Per Year 24 - COMP24
					Permit Req.										<=	2 DAILY MX	19 - mg/L	
					Value NODI													
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample										<	0.0011	19 - mg/L	02/YR - Twice Per Year 02/YR - Twice Per Year 24 - COMP24
					Permit Req.										<=	.65 DAILY MX	19 - mg/L	
					Value NODI													
71870	Bromide [as Br]	V - See Comments	0	--	Sample										<	0.37	19 - mg/L	02/YR - Twice Per Year 02/YR - Twice Per Year 24 - COMP24
					Permit Req.										<=	5 DAILY MX	19 - mg/L	
					Value NODI													

Submission Note

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

Edit Check Errors

No errors.

Comments

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:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-01-22 09:01 (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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

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 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 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 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 MO AVG	<=	45 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	<=	.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 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	<=	.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	<=	.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 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:	william.kean@chbww.com
Name:	William Kean
E-Mail:	william.kean@chbww.com
Date/Time:	2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:	janice.williams@chbww.com
Name:	Janice Williams
E-Mail:	janice.williams@chbww.com
Date/Time:	2018-01-22 09:01 (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 01/01/17 to 12/31/17

DMR Due Date:

01/28/18

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.										<=	.2 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB
					Value NODI											C - No Discharge			

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:

william.kean@chbvw.com

Name:

William Kean

E-Mail:

william.kean@chbvw.com

Date/Time:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbvw.com

Name:

Janice Williams

E-Mail:

janice.williams@chbvw.com

Date/Time:

2018-01-22 09:01 (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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

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 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:

william.kean@chbwv.com

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-01-22 09:01 (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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

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 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:

william.kean@chbwv.com

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-01-22 09:01 (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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

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 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-2017-NET-IRON-CALC.pdf	pdf	17765

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:

2018-01-22 09:00 (Time Zone: -05:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-01-22 09:01 (Time Zone: -05:00)

SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2017
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.

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

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

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

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

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

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

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

Attachment B

**Storm Water Discharge Monitoring Results for
July 1 through December 31, 2017
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04**

Monitoring Period: July 1 through December 31, 2017

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not Specified in Permit
	Oil and Grease	3.1	N.R.	15 mg/L
	BOD-5	2.4	2.8	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	110	76	
	Total Dissolved Solids (TDS)	160	140	
	Phosphorus, Total	0.28	0.22	
Group B Parameters	Aluminum	4.5	2.9	
	Iron	4.9	3.0	
	Copper, Total Recoverable (TR)	0.0077	0.0050	
	Lead (TR)	0.0082	0.0070	
	Zinc (TR)	0.048	0.033	
Group C Parameters	Total Nitrogen (as N)	0.96	< 0.55	
	TKN	0.68	0.43	
	Nitrate Nitrogen (as N)	0.23	0.098	
	Nitrite Nitrogen (as N)	0.050	< 0.020	
	Ammonia Nitrogen (as NH3)	0.044	0.024	
	Cadmium, TR	0.000073	< 0.000071	
	Chromium, TR	0.0040	0.0029	
	Hexavalent Chromium, TR	< 0.0050	< 0.0050	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	0.0041	0.0017	
	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.	2,500,000	
	Maximum Flow rate, gallons per minute	29,000	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	09/14/17	09/14/17	
	Duration of storm event, in minutes	N.R.	240	Rain started at 0600 EDT on 9/14/17 and ended at 1000 EDT on 9/14/17.
	Date and Time of sample collection	09/14/17 0700	09/14/17 0940	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.90	An Additional 0.02 inches was recorded after sampling at this outfall was complete for a storm total of 0.92 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	137	Precipitation of 0.33 inches was recorded on 9/8/17 at 1315 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S33/DUPLICATE**

Monitoring Period: July 1 through December 31, 2017

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.1 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.4 / < 1.4	N.R.	15 mg/L
	BOD-5	3.2 / 6.2	2.8	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	160 / 150	15	
	Total Dissolved Solids (TDS)	260 / 240	210	
	Phosphorus, Total	0.95 / 0.94	0.20	
Group B Parameters	Aluminum	1.4 / 0.97	0.29	
	Iron	34 / 25	3.5	
	Copper, Total Recoverable (TR)	0.0031 / 0.0027	0.0011	
	Lead (TR)	0.0026 / 0.0023	0.00063	
	Zinc (TR)	0.028 / 0.023	0.012	
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.	
Flow	Paraquat Dichloride	N. R.	N.R.	
	Total Flow, gallons	N.R.	210,000	
	Maximum Flow rate, gallons per minute	1,500	N.R.	
Rainfall Event and Monitoring Summary	Method of flow measurement	Staff Gauge		
	Date(s) of event monitored	09/14/17	09/14/17	
	Duration of storm event, in minutes	N.R.	240	Rain started at 0600 EDT on 9/14/17 and ended at 1000 EDT on 9/14/17.
	Date and Time of sample collection	09/14/17 0705	09/14/17 0945	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.91	An additional 0.01 inches was recorded after sampling at this outfall was completed for a storm total of 0.92 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	137	Precipitation of 0.33 inches was recorded on 9/8/17 at 1315 EDT. There was no flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S12
Monitoring Period: July 1 through December 31, 2017

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	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	3.6	3.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	54	61	
	Total Dissolved Solids (TDS)	330	230	
	Phosphorus, Total	0.34	0.23	
Group B Parameters	Aluminum	1.2	0.93	
	Iron	2.5	1.5	
	Copper, Total Recoverable (TR)	0.0031	0.0061	
	Lead (TR)	0.0016	0.0039	
	Zinc (TR)	0.013	0.029	
Group C Parameters	Total Nitrogen (as N)	< 0.75	< 0.75	
	TKN	0.62	0.42	
	Nitrate Nitrogen (as N)	0.11	0.31	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.016	0.021	
	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	<0.0000065	< 0.0000063	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	9.3	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	170,000	
	Maximum Flow rate, gallons per minute	1,600	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/11/17	10/11/17	
	Duration of storm event, in minutes	N.R.	525	Rain started at 1145 EDT on 10/11/17 and ended at 2030 EDT on 10/11/17.
	Date and Time of sample collection	10/11/17 1240	10/11/17 1520	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.42	An additional 0.59 inches was recorded after sampling ended for a storm total of 1.01 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	51	Precipitation of 0.33 inches was recorded on 10/9/17 at 0845 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, 2017

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	1.6	N.R.	15 mg/L
	BOD-5	3.3	< 2.0	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	140	100	
	Total Dissolved Solids (TDS)	220	130	
	Phosphorus, Total	0.29	0.24	
Group B Parameters	Aluminum	4.1	5.4	
	Iron	4.5	7.1	
	Copper, Total Recoverable (TR)	0.0088	0.0063	
	Lead (TR)	0.0066	0.0062	
	Zinc (TR)	0.099	0.063	
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)	0.025	< 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.	780,000	
	Maximum Flow Rate, gallons per minute	7,400	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	09/14/17	09/14/17	
	Duration of storm event, in minutes	N.R.	240	Rain started at 0600 EDT on 9/14/17 and ended at 1000 EDT on 9/14/17.
	Date and Time of sample collection	09/14/17 0700	09/14/17 0940	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.91	An Additional 0.01 inches was recorded after sampling at this outfall was completed for a storm total of 0.92 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	137	Precipitation of 0.33 inches was recorded on 9/8/17 at 1315 EDT. Outfall was at base flow conditions upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S17
Monitoring Period: July 1 through December 31, 2017

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	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	2.0	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	14	32	
	Total Dissolved Solids (TDS)	480	230	
	Phosphorus, Total	0.049	0.090	
Group B Parameters	Aluminum	0.98	2.9	
	Iron	0.53	1.7	
	Copper, Total Recoverable (TR)	0.0023	0.0036	
	Lead (TR)	0.0030	0.0049	
	Zinc (TR)	0.0079	0.014	
Group C Parameters	Total Nitrogen (as N)	< 0.52	< 0.30	
	TKN	0.39	0.22	
	Nitrate Nitrogen (as N)	0.11	0.064	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.023	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	< 0.0012	0.0014	
	Surfactant (as LAS)	0.037	0.026	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.20	0.1	
	Sulfide	0.080	< 0.050	
Flow	Total Flow, gallons	N.R.	420,000	
	Maximum Flow rate, gallons per minute	3,000	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/11/17	10/11/17	
	Duration of storm event, in minutes	N.R.	525	Rain started at 1145 EDT on 10/11/17 and ended at 2030 EDT on 10/11/17.
	Date and Time of sample collection	10/11/17 1250	10/11/17 1540	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.50	An additional 0.51 inches was recorded after sampling ended for a storm total of 1.01 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	51	Precipitation of 0.33 inches was recorded on 10/9/15 at 0845 EDT. No flow at Outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S42
Monitoring Period: July 1 through December 31, 2017

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	< 4.0	< 4.0	
	Total Dissolved Solids (TDS)	1900	2000	
	Phosphorus, Total	0.019	0.0098	
Group B Parameters	Aluminum	< 0.060	< 0.060	
	Iron	0.066	0.063	
	Copper, Total Recoverable (TR)	0.0062	0.0061	
	Lead (TR)	< 0.00017	< 0.00017	
	Zinc (TR)	0.0042	0.0047	
Group C Parameters	Total Nitrogen (as N)	< 0.91	< 0.89	
	TKN	0.17	0.19	
	Nitrate Nitrogen (as N)	0.72	0.68	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	< 0.0090	< 0.0090	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	< 0.0012	< 0.0012	
	Surfactant (as LAS)	0.016	0.017	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.050	< 0.050	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	5,000	
	Maximum Flow rate, gallons per minute	30	N.R.	
	Method of flow measurement	Stop Watch and Bucket		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/16/17	11/16/17	
	Duration of storm event, in minutes	N.R.	585	Rain started at 0645 EST on 11/16/17 and ended at 1630 EST on 11/16/17.
	Date and Time of sample collection	11/16/17 0720	11/16/17 1000	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.27	An additional 0.20 inches was recorded after sampling ended for a storm total of 0.47 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	74	Precipitation of 1.09 inches was recorded on 11/13/17 at 0445 EDT. Slight flow from at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: July 1 through December 31, 2017**

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	1.5	N.R.	15 mg/L
	BOD-5	6.3	2.2	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	210	25	
	Total Dissolved Solids (TDS)	32	46	
	Phosphorus, Total	0.97	0.065	
Group B Parameters	Aluminum	6.2	1.3	
	Iron	7.4	1.2	
	Copper, Total Recoverable (TR)	0.0073	0.0017	
	Lead (TR)	0.0048	0.00095	
	Zinc (TR)	0.044	0.0086	
Group C Parameters	Total Nitrogen (as N)	8.2	< 1.1	
	TKN	7.2	0.45	
	Nitrate Nitrogen (as N)	0.93	0.60	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.20	0.20	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.050	0.050	
Flow	Total Flow, gallons	N.R.	54,000	
	Maximum Flow rate, gallons per minute	840	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	8/21/17	8/21/17	
	Duration of storm event, in minutes	N.R.	30	Rain started at 0830 EDT on 8/21/17 and ended at 0900 EDT on 8/21/17.
	Date and Time of sample collection	8/21/17 0845	8/21/17 1130	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.23	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	81	Precipitation of 0.75 inches was recorded on 8/17/17 at 2400 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, 2017**

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	8.1 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.5	N.R.	15 mg/L
	BOD-5	2.9	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	620	52	N.R. = Not Required.
	Total Dissolved Solids (TDS)	170	180	
	Phosphorus, Total	0.88	0.16	
Group B Parameters	Aluminum	16	2.6	
	Iron	19	1.8	
	Copper, Total Recoverable (TR)	0.021	0.0044	
	Lead (TR)	0.021	0.0026	
	Zinc (TR)	0.12	0.031	
Group C Parameters	Total Nitrogen (as N)	< 2.0	< 0.58	
	TKN	1.8	0.48	
	Nitrate Nitrogen (as N)	0.18	0.080	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.043	0.031	
	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.	120,000	
	Maximum Flow rate, gallons per minute	930	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	09/14/17	09/14/17	
	Duration of storm event, in minutes	N.R.	240	Rain started at 0600 EDT on 9/14/17 and ended at 1000 EDT on 9/14/17.
	Date and Time of sample collection	09/14/17 0720	09/14/17 1010	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.92	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	137	Precipitation of 0.33 inches was recorded on 9/8/17 at 1315 EDT. There was no flow at outfall upon arrival.

Attachment C

**Annual Water Treatment Chemical Usage Report
for Calendar Year 2017**



New York State Department of Environmental Conservation
Division of Water
SPDES Permit - WTC Annual Report Form (June 2014)

A SPDES permittee is required to submit a *WTC Annual Report Form* each year that they use and discharge Water Treatment Chemicals (WTCs). The permittee must attach the completed form to either the December DMR or the annual monitoring report required by the SPDES permit. Additional information is available at the NYSDEC website <http://www.dec.ny.gov/permits/93245.html>.

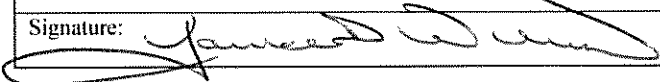
SPDES Permit No.	Permittee Name
NY- 0000973	U. S. Department of Energy, West Valley, NY

Annual Report for Year 2017
Page 1 of 1

WTC Name	WTC Manufacturer	Date Authorized by NYSDEC	Average Daily Use* (pounds/day)	Maximum Daily Use (pounds/day)	Affected Outfall(s)	Check Box If Use of WTC Has Been Discontinued	Footnotes
Klaraid PC313	GE Betz	07/01/2011	0	0	001	✓	
Steamate NA701	GE Betz	07/01/2011	0	0	001	✓	
Cortrol IS104	GE Betz	07/01/2011	0	0	001	✓	
Optisperse CL362	GE Betz	07/01/2011	0	0	001	✓	

* - Average daily use = (total pounds used during year) divided by (discharge days during year). For continuous discharges, discharge days during year = 365.

Footnotes: (if applicable)

Name: Janice D. Williams, CH2M HILL BWXT West Valley, LLC	Title: Regulatory Strategy, Manager	Phone: (716) 942-2913
Signature: 	Date: 1-22-2018	Email: janice.williams@chbwv.com

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, 2017, 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

12-18-2017

Date

Attachment E

Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Monday, January 22, 2018 11:32 AM
To: ewwohlers@cattco.org; Christine Lee; Jason Casper; William Kean; James Baker; lynette.bennett@chbwv.com; Bonnie Jeffery; Moira Maloney; Amanda Steiner; jennifer.dundas@wv.doe.gov; R9.NetDMR@dec.ny.gov; 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: _88e4544f-5cd7-44dc-9cec-b76d013a86c6

User ID: janice.williams@chbwv.com

Timestamp: 01/22/2018 09:01:07

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001

Discharge: A - OUTFALL 001 ANNUAL

Monitoring Period End Date: 12/31/17

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: 12/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001

Discharge: S - OUTFALL 001 SEMI-ANNUAL

Monitoring Period End Date: 12/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001

Discharge: U - OUTFALL 001 ACTION LEVELS ANNUAL Monitoring Period End Date: 12/31/17

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: 12/31/17

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: 12/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 007

Discharge: V - OUTFALL 007 ANNUAL MONITORING Monitoring Period End Date: 12/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 01B

Discharge: M - MERCURY PRETREATMENT

Monitoring Period End Date: 12/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 12/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature:
SUM

Discharge: N - SUM OF OUTFALLS 1 & 7

Monitoring Period End Date: 12/31/17

Thank you.

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