

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Angela M. Cooney, Contracting Officer
U. S. Department of Energy
West Valley Demonstration Project
10282 Rock Springs Road
West Valley, New York 14171-9799

AC-PRES
WD:2018:0190
February 26, 2018

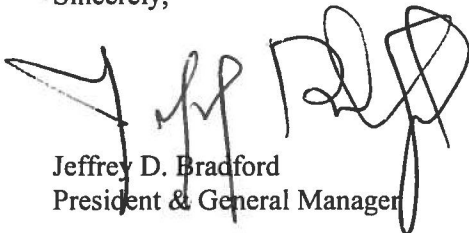
SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR)

Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period January 1 through January 31, 2018 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).

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:WNK:bnj

Attachments: A) SPDES DMR for January 1 – January 31, 2018
B) Whole Effluent Toxicity (WET) Testing Summary Pages
C) 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
N. Feher, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
D. H. Pritchard, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1730266

Attachment A
SPDES DMR

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DMR Copy of Submission

Permit

Permit ID: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Permitted Feature: 001 - External Outfall

Report Dates & Status

Monitoring Period: From 01/01/18 to 01/31/18
Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

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

Major: ☒
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON , DC20585
Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY , NY14171-9799
Discharge: 001-M - OUTFALL 001 MONTHLY PROC WW, GW, STORM

DMR Due Date: 02/28/18

Last Name: Bower
Telephone: 716-942-4368

No Data Indicator (NODI)

Form NODI: -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
00154	Sulfate [as S]											
1 - Effluent Gross		Smpl.					=64	=64	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
NODI: -		NODI										
00181	Oxygen demand, ultimate											
1 - Effluent Gross		Smpl.					=8.7	=9.83	19 - mg/L	0	02/BA - Twice Per Batch	CA - CALCTD
Season: 0		Req.					Req Mon MO AVG	<=22 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	CA - CALCTD
NODI: -		NODI										
00300	Oxygen, dissolved [DO]											
1 - Effluent Gross		Smpl.				=14		=14	19 - mg/L	0	02/BA - Twice Per Batch	GR - GRAB
Season: 0		Req.				>=3 MINIMUM		Req Mon MAXIMUM	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
NODI: -		NODI										
00310	BOD, 5-day, 20 deg. C											
1 - Effluent Gross		Smpl.					<2.6	=3.2	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
Season: 0		Req.					Req Mon MO AVG	<=10 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
NODI: -		NODI										
00400	pH											
1 - Effluent Gross		Smpl.				=8.1		=8.1	12 - SU	0	01/BA - Once Per Batch	GR - GRAB
Season: 0		Req.				>=6.5 MINIMUM		<=8.5 MAXIMUM	12 - SU		01/BA - Once Per Batch	GR - GRAB
NODI: -		NODI										
00530	Solids, total suspended											
1 - Effluent Gross		Smpl.					<4	<4	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
Season: 0		Req.					<=30 MO AVG	<=45 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
NODI: -		NODI										
00545	Solids, settleable											
1 - Effluent Gross		Smpl.					<0.1	<0.1	25 - mL/L	0	02/BA - Twice Per Batch	GR - GRAB
Season: 0		Req.					Req Mon MO AVG	<=.3 DAILY MX	25 - mL/L		02/BA - Twice Per Batch	GR - GRAB
NODI: -		NODI										
00556	Oil & Grease											
1 - Effluent Gross		Smpl.					=1.6	=1.6	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB

Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units		
Season: 0		Req.					Req Mon MO AVG	<=15 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
NODI: -		NODI									
00615	Nitrogen, nitrite total [as N]	Smpl.					=0.02	=0.02	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					Req Mon MO AVG	<=.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
NODI: -		NODI									
00620	Nitrogen, nitrate total [as N]	Smpl.					<0.02	<0.02	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
NODI: -		NODI									
00625	Nitrogen, Kjeldahl, total [as N]	Smpl.					=1.1	=1.1	19 - mg/L	0	02/BA - Twice Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24
NODI: -		NODI									
00746	Sulfide, dissolved, [as S]	Smpl.					<0.05	<0.05	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					Req Mon MO AVG	<=.4 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
NODI: -		NODI									
00978	Arsenic, total recoverable	Smpl.					=0.002	=0.002	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					Req Mon MO AVG	<=.15 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
NODI: -		NODI									
00979	Cobalt, total recoverable	Smpl.					<0.0006	<0.0006	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											GR - GRAB
Season: 0		Req.					Req Mon MO AVG	<=.005 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
NODI: -		NODI									
00981	Selenium, total recoverable	Smpl.					<0.0004	<0.0004	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											GR - GRAB
Season: 0		Req.					Req Mon MO AVG	<=.004 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
NODI: -		NODI									
01045	Iron, total [as Fe]	Smpl.					=0.47	=0.494	19 - mg/L	0	02/BA - Twice Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24
NODI: -		NODI									
01105	Aluminum, total [as Al]	Smpl.					=0.15	=0.15	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					<=2 MO AVG	<=4 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
NODI: -		NODI									
01128	Vanadium, total recoverable	Smpl.					<0.0015	<0.0015	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											GR - GRAB
Season: 0		Req.					Req Mon MO AVG	<=.014 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
NODI: -		NODI									
34726	Nitrogen, ammonia, total [as NH3]	Smpl.					=0.21	=0.21	19 - mg/L	0	02/BA - Twice Per Batch
1 - Effluent Gross											24 - COMP24
Season: 0		Req.					<=1.5 MO AVG	<=2.1 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24
NODI: -		NODI									
50050	Flow, in conduit or thru treatment plant	Smpl.	=0.14	=0.199	03 - MGD				0	02/BA - Twice Per Batch	CN - CONTIN
1 - Effluent Gross											
Season: 0		Req.	Req Mon MO AVG	Req Mon DAILY MX	03 - MGD					02/BA - Twice Per Batch	CN - CONTIN
NODI: -		NODI									
50060	Chlorine, total residual	Smpl.					=0.03	=0.03	19 - mg/L	0	01/BA - Once Per Batch
1 - Effluent Gross											GR - GRAB
Season: 0		Req.					Req Mon MO AVG	<=.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
NODI: -		NODI									

Code	Name	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units		
1 - Effluent Gross										
Season: 0	Req.				Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
NODI: -	NODI									
71900 Mercury, total [as Hg]										
1 - Effluent Gross	Smpl.				=7.2	=7.2	3M - ng/L	0	01/BA - Once Per Batch	GR - GRAB
Season: 0	Req.				<=50 MO AVG	Req Mon DAILY MX	3M - ng/L		01/BA - Once Per Batch	GR - GRAB
NODI: -	NODI									
81646 Surfactants [linear alkylate sulfonate]										
1 - Effluent Gross	Smpl.				=0.006	=0.006	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
Season: 0	Req.				Req Mon MO AVG	<=.04 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
NODI: -	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 Discharge Monitoring Reports (DMRs) are as follows: TestAmerica: NY Lab No. 10026, and 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 operators is 0.01 mg/L. Please note that the discharge was started on January 4, 2018 and was temporarily suspended on January 9, 2018. This was due to the site's inability to get the Lake pump running (Frozen) that is utilized for flow augmentation. With the pump operational, the discharge was re-started on January 15, 2018 and completed on January 18, 2018.

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: 2018-02-20 08:43 (Time Zone:-05:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-02-20 08:44 (Time Zone:-05:00)

Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	LA	Frequency	Sample Type
Season: 0		Req.					Req Mon MO AVG	<=15 DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
NODI: -		NODI					C - No Discharge	C - No Discharge				
00615	Nitrogen, nitrite total [as N]	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					Req Mon MO AVG	<=.1 DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI					C - No Discharge	C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI					C - No Discharge	C - No Discharge				
01045	Iron, total [as Fe]	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
NODI: -		NODI					C - No Discharge	C - No Discharge				
34726	Nitrogen, ammonia, total [as NH3]	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					<=1.49 MO AVG	<=2.1 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
NODI: -		NODI					C - No Discharge	C - No Discharge				
50050	Flow, in conduit or thru treatment plant	Smpl.										
1 - Effluent Gross												
Season: 0		Req.	Req Mon MO AVG	Req Mon DAILY MX	03 - MGD						01/30 - Monthly	CN - CONTIN
NODI: -		NODI	C - No Discharge	C - No Discharge								
50060	Chlorine, total residual	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					Req Mon MO AVG	<=.1 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
NODI: -		NODI					C - No Discharge	C - No Discharge				
70295	Solids, total dissolved	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
NODI: -		NODI					C - No Discharge	C - No Discharge				
71900	Mercury, total [as Hg]	Smpl.										
1 - Effluent Gross												
Season: 0		Req.					Req Mon MO AVG	<=50 DAILY MX	3M - ng/L		01/30 - Monthly	GR - GRAB
NODI: -		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:

2018-02-20 08:43 (Time Zone:-05:00)

Report Last Signed By

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-02-20 08:44 (Time Zone:-05:00)

Permit ID:	NY0000973	Major:	☒
Permittee:	U.S. DEPT OF ENERGY	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON , DC20585
Facility:	WEST VALLEY DEMONSTRATION PROJ	Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY , NY14171-9799
Permitted Feature:	001 - External Outfall	Discharge:	001-W - OUTFALL 001 WET TESTING QUARTERLY

Monitoring Period:	From 10/01/17 to 12/31/17	DMR Due Date:	02/28/18
Status:	NetDMR Validated		

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			

[illegible]

Submission Note

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

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. to that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment operators is 0.01 mg/L. Please note that the Whole Effluent Summary pages have been attached to this DMR for sampling that was conducted in September, 2017. The full report has been sent under separate cover to Ms. Nicole Wright of NYSDEC's Toxicity Testing Unit on November 29, 2017. As you will note, the testing results for the Ceriodaphnia dubia (Water Flea) and the Pimephales promelas (Fathead minnow) passed the Acute and Chronic reporting limits. This sampling completed the quarterly WET testing requirements for the 2017 calendar year.

Attachments

Name	Type	Size
WVDP_September_2017_Whole_Effluent_Toxicity_Summary.pdf	pdf	140503

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: 2018-02-20 08:43 (Time Zone: -05:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-02-20 08:44 (Time Zone: -05:00)

Permit ID: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Permitted Feature: 007 - External Outfall
Report Dates & Status
Monitoring Period: From 10/01/17 to 12/31/17
Status: NetDMR Validated

Major:
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON , DC20585
Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY , NY14171-9799
Discharge: 007-W - OUTFALL 007 WET TESTING QUARTERLY
DMR Due Date: 02/28/18

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

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

Last Name: Bower
Telephone: 716-942-4368

No Data Indicator (NODI)

Form NODI: -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
61425	Toxicity [acute], Ceriodaphnia dubia	Smpl. V - See Comments										
Season: 0								<= .3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
NODI: -								C - No Discharge				
61426	Toxicity [chronic], Ceriodaphnia dubia	Smpl. V - See Comments										
Season: 0								<= 1 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
NODI: -								C - No Discharge				
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	Smpl. V - See Comments										
Season: 0								<= .3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
NODI: -								C - No Discharge				
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	Smpl. V - See Comments										
Season: 0								<= 1 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
NODI: -								C - No Discharge				

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2018-02-20 08:43 (Time Zone:-05:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-02-20 08:44 (Time Zone:-05:00)

[View Certification](#) | [Download COR](#)

DMR Copy of Submission

Permit

Permit ID: NY0000973
 Permittee: U.S. DEPT OF ENERGY
 Facility: WEST VALLEY DEMONSTRATION PROJ
 Permitted Feature: 01B - Internal Outfall

Major: ☒
 Permittee Address: 1000 INDEPENDENCE AVE SW
 WASHINGTON , DC20585
 Facility Location: 10282 ROCK SPRINGS ROAD
 WEST VALLEY , NY14171-9799
 Discharge: 01B-M - MERCURY PRETREATMENT

Report Dates & Status

Monitoring Period: From 01/01/18 to 01/31/18
 Status: NetDMR Validated

DMR Due Date: 02/28/18

Considerations for Form Completion**Principal Executive Officer**

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

Last Name: Bower
 Telephone: 716-942-4368

No Data Indicator (NODI)

Form NODI: -

Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration			Units	# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3				
00056	Flow rate	Smpl.										
	1 - Effluent Gross											
	Season: 0	Req.	Req Mon MO AVG	Req Mon DAILY MX	07 - gal/d						01/07 - Weekly	CN - CONTIN
	NODI: -	NODI	C - No Discharge	C - No Discharge								
71900	Mercury, total [as Hg]	Smpl.										
	1 - Effluent Gross											
	Season: 0	Req.				Req Mon MO AVG	<=50 DAILY MX		3M - ng/L		02/BA - Twice Per Batch	GR - GRAB
	NODI: -	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: 2018-02-20 08:43 (Time Zone:-05:00)

Report Last Signed By

User: janice.williams@chbwv.com
 Name: Janice Williams
 E-Mail: janice.williams@chbwv.com
 Date/Time: 2018-02-20 08:44 (Time Zone:-05:00)

View Certification | Download COR

DMR Copy of Submission

Permit

Permit ID:	NY0000973	Major:	
Permittee:	U.S. DEPT OF ENERGY	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON , DC20585
Facility:	WEST VALLEY DEMONSTRATION PROJ	Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY , NY14171-9799
Permitted Feature:	116 - Internal Outfall	Discharge:	116-M - PSEUDO MON. POINT @FRANKS CRK
Report Dates & Status		DMR Due Date:	02/28/18
Monitoring Period:	From 01/01/18 to 01/31/18		
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		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
70295	Solids, total dissolved	Smpl.					=371	=481	19 - mg/L	0	02/DS - Twice Per Discharge	CA - CALCTD
Z - Instream Monitoring												
Season: 0		Req.					Req Mon MO AVG	<=500 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	CA - CALCTD
NODI: -		NODI										

Submission Note

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

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. to that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment operators is 0.01 mg/L.

Attachments

Name	Type	Size
WVDP_January_2017_TDS_Calc.pdf	pdf	30506

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:	2018-02-20 08:43 (Time Zone:-05:00)

Report Last Signed By

	janice.williams@chbwv.com
Name:	Janice Williams
E-Mail:	janice.williams@chbwv.com
Date/Time:	2018-02-20 08:44 (Time Zone:-05:00)

[View Certification](#) | [Download COR](#)

DMR Copy of Submission

Permit

Permit ID: NY0000973

Permittee: U.S. DEPT OF ENERGY

Facility: WEST VALLEY DEMONSTRATION PROJ

Permitted Feature: SUM - Internal Outfall

Report Dates & Status

Monitoring Period: From 01/01/18 to 01/31/18

Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Bryan C.

Title: Director, USDOE-WVDP

Major:

Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON , DC20585

Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY , NY14171-9799

Discharge: SUM-N - SUM OF OUTFALLS 1 & 7

DMR Due Date: 02/28/18

No Data Indicator (NODI)

Form NODI: -

Last Name: Bower

Telephone: 716-942-4368

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
01045	Iron, total [as Fe]	Smpl.					=0.47	=0.47	19 - mg/L	0	01/30 - Monthly	CA - CALCTD
2 - Effluent Net												
Season: 0		Req.					Req Mon MO AVG	<=1 DAILY MX	19 - mg/L		01/30 - Monthly	CA - CALCTD
NODI: -		NODI										

Submission Note

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

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. to that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment operators is 0.01 mg/L.

Attachments

Name	Type	Size
WVDP_January_2018_Net_Fe_Calc.pdf	pdf	33859

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: 2018-02-20 08:43 (Time Zone:-05:00)

Report Last Signed By

User: janice.williams@chbwv.com

Name: Janice Williams

E-Mail: janice.williams@chbwv.com

Date/Time: 2018-02-20 08:44 (Time Zone:-05:00)

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - JANUARY 1 THROUGH JANUARY 31, 2018
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\begin{aligned}\text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 1960289.83 \text{ mg/month} \\ X1 &= 0.446 \text{ mg/L} \\ X2 &= 0.494 \text{ mg/L} \\ V1 &= 4170829.43 \text{ L/month}\end{aligned}$$

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

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

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

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

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.47 \text{ mg/L}$$

ATTACHMENT (Cont'd)

SPDES DISCHARGE MONITORING REPORT - JANUARY 1 THROUGH JANUARY 31, 2018
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: January 4, 2018

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.140 \text{ MGD})(893 \text{ mg/L}) + (0.238 \text{ MGD})(239 \text{ mg/L}) + (0.0 \text{ MGD})(0 \text{ mg/L})) / (0.378 \text{ MGD}) \\ &= 481 \text{ mg/L} \end{aligned}$$

Date: January 17, 2018

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.140 \text{ MGD})(869 \text{ mg/L}) + (0.687 \text{ MGD})(198 \text{ mg/L}) + (0.324 \text{ MGD})(128 \text{ mg/L})) / 1.151 \text{ MGD} \\ &= 260 \text{ mg/L} \end{aligned}$$

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

Attachment B
Whole Effluent Toxicity (WET)
Testing Summary Pages

NEW ENGLAND BIOASSAY, A DIVISION OF GZA EPA TEST SUMMARY SHEET

Facility Name: West Valley Demonstration Project Test Start Date: 9/22/17
 NPDES Permit Number: NY0000973 Pipe Number: 001

<u>Test Type</u>	<u>Test Species</u>	<u>Sample Type</u>	<u>Sample Method</u>
☐ Acute	☐ Fathead Minnow	☐ Prechlorinated	☐ Grab
☐ Chronic	☒ Ceriodaphnia	☐ Dechlorinated	☒ Composite
☒ Modified	☐ Daphnia Pulex	☐ Chlorine Spiked in Lab	☐ Flowthru
(chronic reporting	☐ Mysid Shrimp	☐ Chlorinated on site	☐ Other
acute values)	☐ Sheepshead	☒ Unchlorinated	
☐ 24hr screening	☐ Menidia		
	☐ Sea Urchin		
	☐ Champia	TRC: <u>0.061</u> mg/L	
	☐ Selenastrum		

Dilution Water

- ☐ receiving water collected at a point upstream of or away from the discharge, free from toxicity or other sources of contamination; (Receiving water name: Erdman Brook)
- ☐ alternate surface water of known quality and a hardness, etc. to generally reflect the characteristics of the receiving water; (Surface water name: _____)
- ☒ synthetic water prepared using either Millipore Mill-Q or equivalent deionized water and reagent grade chemicals; or deionized water combined with mineral water;
- ☐ or artificial sea salts mixed with deionized water;
- ☐ deionized water and hypersaline brine; or

Effluent sampling date (s): 9/20-21/17 9/24-25/17

Effluent concentrations tested (in%): 0 6.25 12.5 25 50 100

* Permit limit concentration: TUa ≤ 0.3, TUc ≤ 1.0

Was effluent salinity adjusted? No

Actual effluent concentrations tested after salinity adjustment (%): 0 6.25 12.5 25 50 100

Reference Toxicant test date: 9/5/17

Test Acceptability Criteria

Mean Control Survival: N/A Mean Control Reproduction: N/A
 Mean Diluent Survival: 100% Mean Diluent Reproduction: 26.6 young/female

	<u>Limits</u>		<u>Results</u>
LC50	<u>N/A</u>	LC50	<u>>100%</u>
		Upper Value	<u>±∞</u>
		Lower Value	<u>100%</u>
		Data Analysis	
		Method Used	<u>Graphical</u>
TUa	<u>0.3</u>	TUa	<u>0.3</u>
A-NOEC	<u>N/A</u>	A-NOEC	<u>100%</u>
C-NOEC	<u>N/A</u>	C-NOEC	<u>100%*</u>
		LOEC	<u>>100%</u>
TUc	<u>1.0</u>	TUc	<u>1.0</u>
IC25	<u>N/A</u>	IC25	<u>>100%</u>
IC50	<u>N/A</u>	IC50	<u>>100%</u>

NEW ENGLAND BIOASSAY, A DIVISION OF GZA EPA TEST SUMMARY SHEET

Facility Name: West Valley Demonstration Project Test Start Date: 9/22/17
 NPDES Permit Number: NY0000973 Pipe Number: 001

Test Type	Test Species	Sample Type	Sample Method
☐ Acute	☒ Fathead Minnow	☐ Prechlorinated	☐ Grab
☐ Chronic	☐ Ceriodaphnia	☐ Dechlorinated	☒ Composite
☒ Modified	☐ Daphnia Pulex	☐ Chlorine Spiked in Lab	☐ Flowthru
(chronic reporting	☐ Mysid Shrimp	☐ Chlorinated on site	☐ Other
acute values)	☐ Sheepshead	☒ Unchlorinated	
☐ 24hr screening	☐ Menidia		
	☐ Sea Urchin		
	☐ Champia	TRC: <u>0.061</u> mg/L	
	☐ Selenastrum		

Dilution Water

☐ receiving water collected at a point upstream of or away from the discharge, free from toxicity or other sources of contamination; (Receiving water name: Erdman Brook)
☐ alternate surface water of known quality and a hardness, etc. to generally reflect the characteristics of the receiving water; (Surface water name: _____)
☒ synthetic water prepared using either Millipore Mill-Q or equivalent deionized water and reagent grade chemicals; or deionized water combined with mineral water;
☐ or artificial sea salts mixed with deionized water;
☐ deionized water and hypersaline brine; or

Effluent sampling date (s): 9/20-21/17 9/24-25/17

Effluent concentrations tested (in%): 0 6.25 12.5 25 50 100
 * Permit limit concentration: TUa ≤ 0.3, TUc ≤ 1.0

Was effluent salinity adjusted? No

Actual effluent concentrations tested after salinity adjustment (%): 0 6.25 12.5 25 50 100

Reference Toxicant test date: 9/5/17

Test Acceptability Criteria

Mean Control Survival: N/A Mean Control Weight: N/A
 Mean Diluent Survival: 100% Mean Diluent Weight: 0.604 mg

	<u>Limits</u>		<u>Results</u>
LC50	<u>N/A</u>	LC50	<u>>100%</u>
		Upper Value	<u>±∞</u>
		Lower Value	<u>100%</u>
		Data Analysis	
		Method Used	<u>Graphical</u>
TUa	<u>0.3</u>	TUa	<u>0.3</u>
A-NOEC	<u>N/A</u>	A-NOEC	<u>100%</u>
C-NOEC	<u>N/A</u>	C-NOEC	<u>100%</u>
		LOEC	<u>>100%</u>
TUc	<u>1.0</u>	TUc	<u>1.0</u>
IC25	<u>N/A</u>	IC25	<u>>100%</u>
IC50	<u>N/A</u>	IC50	<u>>100%</u>

Attachment C
Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Tuesday, February 20, 2018 9:31 AM
To: ewwohlers@cattco.org; Christine Lee; Jason Casper; R9.NetDMR@dec.ny.gov; William Kean; James Baker; lynette.bennett@chbwv.com; Bonnie Jeffery; Moira Maloney; Amanda Steiner; jennifer.dundas@wv.doe.gov; Janice Williams
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973

The following signed 7 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _94447cd8-0b7b-4846-b984-621ae3d32c76

User ID: janice.williams@chbwv.com

Timestamp: 02/20/2018 08:44:23

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

Discharge: W - OUTFALL 001 WET TESTING QUARTERLY Monitoring Period End Date: 12/31/17

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

Discharge: W - OUTFALL 007 WET TESTING QUARTERLY 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: 01/31/18

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: 01/31/18

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

Discharge: M - MERCURY PRETREATMENT

Monitoring Period End Date: 01/31/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116

Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 01/31/18

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

Discharge: N - SUM OF OUTFALLS 1 & 7

Monitoring Period End Date: 01/31/18

Thank you.

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