

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 14171-9799

AC-PRES
WD:2017:1083
October 25, 2017

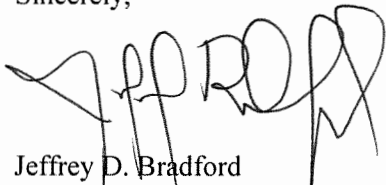
SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR)

Dear Ms. Purdy:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period September 1 through September 30, 2017 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 September 1 – September 30, 2017
B) Email Confirmation from NYSDEC

cc: 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
L. J. Ortega, CHBWV
D. H. Pritchard, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1630398

Attachment A
SPDES DMR

Permit		Permittee:		Facility:	
Permit #:	NY0000973	U.S. DEPT OF ENERGY		WEST VALLEY DEMONSTRATION PROJ	
Major:	Yes	Permittee Address:		Facility Location:	
		1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585		10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799	
Permitted Feature:		Discharge:			
001 External Outfall		001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM			
Report Dates & Status					
Monitoring Period:		DMR Due Date:		Status:	
From 09/01/17 to 09/30/17		10/28/17		Not DMR Validated	
<i>Considerations for Form Completion</i>					
Principal Executive Officer					
First Name:		Title:		Telephone:	
Bryan C.		Director, USDOE-WVDP		716-942-4368	
Last Name:					
Bower					
No Data Indicator (NODI)					
Form NODI:					
--					

Code	Parameter Name	Monitoring Location	Season	# Param.	NODI	Quantity or Loading				Quality or Concentration				Units	# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 1	Value 1	Qualifier 2	Value 2				
00154 Sulfate [as S]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00181 Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00400 pH	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00530 Solids, total suspended	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00545 Solids, settleable	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00556 Oil & Grease	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00615 Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00620 Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00625 Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00746 Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00978 Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00979 Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
00961 Selenium, total recoverable	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												
01045 Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample	Permit Req.												
					Value NODI												
					Sample												
					Value NODI												

01105 Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	0.22	=	0.22	19 - mg/L	01/BA - Once Per Batch 24 - COMP24
					<=	2 MO AVG	<=	4 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24 - COMP24
01128 Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	<	0.0015	<	0.0015	19 - mg/L	01/BA - Once Per Batch GR - GRAB
						Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
34726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	0.019	=	0.022	19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
					<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch 24 - COMP24
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	0.238	=	0.32	03 - MGD	02/BA - Twice Per Batch CN - CONTIN
						Req Mon MO AVG		Req Mon DAILY MX	03 - MGD	02/BA - Twice Per Batch CN - CONTIN
50060 Chlorine, total residual	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	0.05	=	0.05	19 - mg/L	01/BA - Once Per Batch GR - GRAB
						Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
70295 Solids, total dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	589	=	906	19 - mg/L	02/BA - Twice Per Batch GR - GRAB
						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch GR - GRAB
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	3.8	=	3.8	3M - ng/L	01/BA - Once Per Batch GR - GRAB
					<=	50 MO AVG		Req Mon DAILY MX	3M - ng/L 0	01/BA - Once Per Batch GR - GRAB
81646 Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	=	0.01	=	0.01	19 - mg/L	01/BA - Once Per Batch GR - GRAB
						Req Mon MO AVG	<=	.04 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB

Submission Note

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

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2.5(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 MDLs for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment 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: 2017-10-24 06:54 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2017-10-24 14:50 (Time Zone: -04:00)

Permit		Permittee:		Facility:				
Permit #:	NY0000973	Permittee Address:	U.S. DEPT OF ENERGY 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	Facility Location:	WEST VALLEY DEMONSTRATION PROJ 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799			
Major:	Yes	Discharge:	SUM-N SUM OF OUTFALLS 1 & 7					
Permitted Feature:	SUM Internal Outfall							
Report Dates & Status								
Monitoring Period:	From 09/01/17 to 09/30/17	DMR Due Date:	10/28/17	Status:	NotDMR Validated			
Considerations for Form Completion								
Principal Executive Officer								
First Name:	Bryan C.	Title:	Director, USDOE-WVDP	Telephone:	716-942-4368			
Last Name:	Bower							
No Data Indicator (NODI)								
Form NODI:	-							
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading	Quality or Concentration	# of Ex.	Frequency of Analysis	Sample Type
Code	Name			Qualifier 1 Value 1 Qualifier 2 Value 2 Units	Qualifier 1 Value 1 Qualifier 2 Value 2 Units	Qualifier 3 Value 3 Units		
01045	Iron, total (as Fe) 2 - Effluent Net	0	-	Sample Permit Req. Value NODI	= 0.49	= 0.49	19 - mg/L	01/30 - Monthly
					Req Mon MO AVG <=	1 DAILY MX 19 - mg/L	0	01/30 - Monthly
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) when monitoring is not performed under ELAP. to that end, the MDLs for Total Residual Chlorine analysis, performed by the CHBWW wastewater treatment operators is 0.01 mg/L.								
Attachments								
Name			Type			Size		
WVDP-SEPTEMBER-2017-NET-IRON-CALC.pdf			pdf			30200		
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:	2017-10-24 06:53 (Time Zone: -04:00)							
Report Last Signed By								
User:	janice.williams@chbww.com							
Name:	Janice Williams							
E-Mail:	janice.williams@chbww.com							
Date/Time:	2017-10-24 14:50 (Time Zone: -04:00)							

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 09/01/17 to 09/30/17
DMR Due Date: 10/28/17
Status: NetDMR Validated

Considerations for Form Completion

IF PSEUDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THE NO 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	Units	
70295	Solids, total dissolved	Z - Instream Monitoring	0											

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 MDLs for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment operators is 0.01 mg/L.

Attachments

Name	Type	Size
WVDP-SEPTEMBER-2017-TDS-CALC.pdf	pdf	31855

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: 2017-10-24 06:53 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2017-10-24 14:50 (Time Zone: -04:00)

DMR Copy of Record

Permit		Permittee:		Facility:	
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY	Facility:	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	007 External Outfall	Discharge:	007-M SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER		
Report Dates & Status					
Monitoring Period:	From 09/01/17 to 09/30/17	DMR Due Date:	10/28/17	Status:	Not DMR Validated
Considerations for Form Completion					
Principal Executive Officer					
First Name:	Bryan C.	Title:	Director, USDOE-WVDP	Telephone:	716-942-4368
Last Name:	Bower				
No Data Indicator (NODI)					
Form NODI:	-				

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading				Units	Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2		Qualifier 1	Value 1	Qualifier 2	Value 2					
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	22 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD	
					Permit Req. Value NODI								C - No Discharge					
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample				>=	3 MINIMUM				Req Mon MAXIMUM	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI					C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	10 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req. Value NODI								C - No Discharge					
00400	pH	1 - Effluent Gross	0	--	Sample				>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI					C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample							<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	.3 DAILY MX	25 - mL/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	15 DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	.1 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample							<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG	Req Mon DAILY MX	03 - MGD	01/30 - Monthly	CN - CONTIN	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	.1 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req. Value NODI								C - No Discharge		C - No Discharge			
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample								Req Mon MO AVG <=	50 DAILY MX	3M - ng/L	01/30 - Monthly	GR - GRAB	
					Permit Req. 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: 2017-10-24 08:53 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2017-10-24 14:50 (Time Zone: -04:00)

Permit		Permittee: U.S. DEPT OF ENERGY		Facility: WEST VALLEY DEMONSTRATION PROJ	
Permit #:	NY0000973	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Major:	Yes	Discharge:	001-W OUTFALL 001 WET TESTING QUARTERLY		
Permitted Feature:	001 External Outfall				
Report Dates & Status					
Monitoring Period:	From 07/01/17 to 09/30/17	DMR Due Date:	11/28/17	Status:	NetDMR Validated
Considerations for Form Completion					
SEE PERMIT FOOTNOTES FOR WET TESTING 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	Units		
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--		Sample Permit Req. Value NODI		=	0.3	2F - tox acute			<=	.3	MAXIMUM 2F - tox acute	0	01/90 - Quarterly	24 - COMP24
X 61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--		Sample Permit Req. Value NODI		=	2	2G - tox chronic			<=	1	MAXIMUM 2G - tox chronic	1	01/90 - Quarterly	24 - COMP24
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--		Sample Permit Req. Value NODI		=	0.3	2F - tox acute			<=	.3	MAXIMUM 2F - tox acute	0	01/90 - Quarterly	24 - COMP24
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--		Sample Permit Req. Value NODI		=	1	2G - tox chronic			<=	1	MAXIMUM 2G - tox chronic	0	01/90 - Quarterly	24 - COMP24

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

Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge
61426	Toxicity [chronic], <i> Ceriodaphnia dubia </i>	V - See Comments	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

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 WVPDP 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 MDLs for Total Residual Chlorine analysis, performed by the CH2WHY wastewater treatment operators is 0.01 mg/L. Please note that the Whole Effluent Summary pages attached to this DMR were previously attached to the August 2017 Discharge Monitoring Report submitted in September 2017, for sampling that was conducted in July, 2017. The full report has been sent under separate cover to Ms. Nicole Wright of NYSDEC's Toxicity Testing Unit on October 11, 2017. As you will note, the testing results for the Ceriodaphnia dubia (Water Flea) failed the Chronic reporting limit.

Attachments

Name	Type	Size
WVDP JULY 2017 WHOLE EFFLUENT TOXICITY SUMMARY.pdf	pdf	853731

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: 2017-10-24 07:11 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2017-10-24 14:50 (Time Zone: -04:00)

DMR Copy of Record

Permit
 Permit #: NY0000973
 Major: Yes
 Permitted Feature: 01B
 Internal Outfall
 Report Dates & Status
 Monitoring Period: From 09/01/17 to 09/30/17
 Considerations for Form Completion
 Discharge: 01B-M
 MERCURY PRETREATMENT
 Facility: WEST VALLEY DEMONSTRATION PROJ
 Facility Location: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799
 DMR Due Date: 10/28/17
 Status: NetDMR Validated

Principal Executive Officer
 First Name: Bryan C.
 Last Name: Bower
 Title: Director, USDOE-WVDP
 Telephone: 716-942-4368
 No Data Indicator (NODI)
 Form NODI: -

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

Submission Note

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

Edit Check Errors

No errors.

Comments

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: 2017-10-24 06:53 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
 Name: Janice Williams
 E-Mail: janice.williams@chbwv.com
 Date/Time: 2017-10-24 14:50 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #: NY0000973 Permittee: U.S. DEPT OF ENERGY Facility: WEST VALLEY DEMONSTRATION PROJ
Major: Yes Permittee Address: 1000 INDEPENDENCE AVE SW Facility Location: 10282 ROCK SPRINGS ROAD
WASHINGTON, DC 20585 WEST VALLEY, NY 14171-9799

Permitted Feature: 007 Discharge: 007-W
External Outfall OUTFALL 007 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period: From 07/01/17 to 09/30/17 DMR Due Date: 11/28/17 Status: NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

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

No Data Indicator (NODI)

Form NODI: -

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

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: 2017-10-24 06:53 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2017-10-24 14:50 (Time Zone: -04:00)

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - SEPTEMBER 1 THROUGH SEPTEMBER 30, 2017
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\begin{aligned}\text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 2478789.70 \text{ mg/month} \\ X1 &= 0.491 \text{ mg/L} \\ X2 &= 0.482 \text{ mg/L} \\ V1 &= 5095148.40 \text{ L/month}\end{aligned}$$

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

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.

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.49 \text{ mg/L}$$

ATTACHMENT (Cont'd)

SPDES DISCHARGE MONITORING REPORT - SEPTEMBER 1 THROUGH SEPTEMBER 30, 2017
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: September 20, 2017

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.238 \text{ MGD})(906 \text{ mg/L}) + (0.059 \text{ MGD})(457 \text{ mg/L}) + (0.324 \text{ MGD})(169 \text{ mg/L})) / (0.621 \text{ MGD}) \\ &= 479 \text{ mg/L} \end{aligned}$$

Date: September 25, 2017

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.238 \text{ MGD})(872 \text{ mg/L}) + (0.059 \text{ MGD})(197 \text{ mg/L}) + (0.324 \text{ MGD})(132 \text{ mg/L})) / (0.621 \text{ MGD}) \\ &= 422 \text{ mg/L} \end{aligned}$$

-
- 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).

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

Facility Name: West Valley Demonstration Project Test Start Date: 7/14/17
 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>0.015</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): 7/12-13/17 7/16-17/17

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: 7/5/17

Test Acceptability Criteria

Mean Control Survival: 100% Mean Control Reproduction: 23.1 young/female
 Mean Diluent Survival: 100% Mean Diluent Reproduction: 34.3 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>50%</u>
		LOEC	<u>100%</u>
TUc	<u>1.0</u>	TUc	<u>2.0</u>
IC25	<u>N/A</u>	IC25	<u>58.5%</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: 7/14/17
 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>0.015</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): 7/12-13/17 7/16-17/17

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: 7/5/17

Test Acceptability Criteria

Mean Control Survival: 85% Mean Control Weight: 0.633 mg
 Mean Diluent Survival: 95% Mean Diluent Weight: 0.672 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 B
Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Tuesday, October 24, 2017 8:32 PM
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: _56da52c3-33cb-4e84-9621-4bcdd5ae1b4a

User ID: janice.williams@chbwv.com

Timestamp: 10/24/2017 14:50:16

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: 09/30/17

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

Discharge: W - OUTFALL 001 WET TESTING QUARTERLY Monitoring Period End Date: 09/30/17

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: 09/30/17

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

Discharge: W - OUTFALL 007 WET TESTING QUARTERLY Monitoring Period End Date: 09/30/17

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

Discharge: M - MERCURY PRETREATMENT

Monitoring Period End Date: 09/30/17

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

Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 09/30/17

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

Discharge: N - SUM OF OUTFALLS 1 & 7

Monitoring Period End Date: 09/30/17

Thank you.

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