

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

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

AC-PRES
WD:2018:1059
October 17, 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 September 1 through September 30, 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,



Scott A. Anderson
President & General Manager

SAA:WNK:bnj

Attachments: A) SPDES DMR for September 1 – 30, 2018
B) Email Confirmation from NYSDEC

cc: T. Taggart, DOE-EMCBC
B. C. Bower, DOE-WVDP
S. A. Anderson, CHBWV
C. Chun, CHBWV
T. D. Dogal, 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 #1730443

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 09/01/18 to 09/30/18

DMR Due Date:10/28/18

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								=	57	=	57	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI															
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample								=	9.19	=	11.9	19 - mg/L	0	02/BA - Twice Per Batch	CA - CALCTD
					Permit Req.									Req Mon MO AVG	<=	22 DAILY MX	19 - mg/L			
					Value NODI															
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	6.6				=	7.9	19 - mg/L	0	02/BA - Twice Per Batch	GR - GRAB
					Permit Req.					>=	3 MINIMUM					Req Mon MAXIMUM	19 - mg/L			
					Value NODI															
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample								=	4.6	=	6.2	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	10 DAILY MX	19 - mg/L			
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.9				=	7.9	12 - SU	0	01/BA - Once Per Batch	GR - GRAB
					Permit Req.					>=	6.5 MINIMUM				<=	8.5 MAXIMUM	12 - SU			
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample								<	4	<	4	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.									30 MO AVG	<=	45 DAILY MX	19 - mg/L			
					Value NODI															
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample								<	0.1	<	0.1	25 - mL/L	0	02/BA - Twice Per Batch	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	.3 DAILY MX	25 - mL/L			
					Value NODI															
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample								=	2.2	=	2.2	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	15 DAILY MX	19 - mg/L			
					Value NODI															
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample								<	0.02	<	0.02	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L			
					Value NODI															
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample								<	0.02	<	0.02	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI															
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample								=	0.5	=	0.56	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI															
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample								<	0.05	<	0.05	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.4 DAILY MX	19 - mg/L			
					Value NODI															
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0015	<	0.0015	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.15 DAILY MX	19 - mg/L			
					Value NODI															
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.001	<	0.001	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	.005 DAILY MX	19 - mg/L			
					Value NODI															
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0006	<	0.0006	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	.004 DAILY MX	19 - mg/L			
					Value NODI															
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample								=	0.357	=	0.369	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI															

01105	Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample										=	0.1	=	0.1	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Permit Req.										<=	2 MO AVG	<=	4 DAILY MX	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24
					Value NODI																	
01128	Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample										<	0.001	<	0.001	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Permit Req.											Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
					Value NODI																	
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample										<	0.032	=	0.055	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Permit Req.										<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.265	=	0.393	03 - MGD											02/BA - Twice Per Batch	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										0	02/BA - Twice Per Batch	CN - CONTIN
					Value NODI																	
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample										<	0.01	<	0.01	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Permit Req.											Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
					Value NODI																	
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample										=	679	=	680	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
					Permit Req.											Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	02/BA - Twice Per Batch	GR - GRAB
					Value NODI																	
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample										=	2	=	2	3M - ng/L		01/BA - Once Per Batch	GR - GRAB
					Permit Req.										<=	50 MO AVG		Req Mon DAILY MX	3M - ng/L	0	01/BA - Once Per Batch	GR - GRAB
					Value NODI																	
81646	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample										=	0.02	=	0.02	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Permit Req.											Req Mon MO AVG	<=	.04 DAILY MX	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB
					Value NODI																	

Submission Note

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

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L. Please note that laboratory analyzed the second composite sample for Total Suspended Solids (TSS) collected on September 18, 2018 outside of the 7 day holding time and therfore this result was flagged "R" unreliable during the data validation process. The first composite sample was reported correctly at <4.0 mg/L. In addition, a predischarge sample was collected on August 30, 2018 to characterize the lagoon for discharge with a reported TSS result of <4.0 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: 2018-10-15 10:59 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-10-15 14:28 (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:

007
External Outfall

Discharge:

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

Report Dates & Status

Monitoring Period:

From 09/01/18 to 09/30/18

DMR Due Date:

10/28/18

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:	2018-10-11 08:00 (Time Zone: -04:00)

Report Last Signed By

User:	janice.williams@chbww.com
Name:	Janice Williams
E-Mail:	janice.williams@chbww.com
Date/Time:	2018-10-15 14:28 (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:

01B
Internal Outfall

Discharge:

01B-M
MERCURY PRETREATMENT

Report Dates & Status

Monitoring Period:

From 09/01/18 to 09/30/18

DMR Due Date:

10/28/18

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:

2018-10-11 08:00 (Time Zone: -04:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-10-15 14:28 (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 09/01/18 to 09/30/18

DMR Due Date:

10/28/18

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:

--

Submission Note

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

Edit Check Errors

No errors.

Comments

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

Attachments

Name	Type	Size
WVDP_September_2018_TDS_Calc.pdf	pdf	31580

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:

2018-10-15 10:55 (Time Zone: -04:00)

Report Last Signed By

User:

janice.williams@chbwv.com

Name:

Janice Williams

E-Mail:

janice.williams@chbwv.com

Date/Time:

2018-10-15 14:28 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY	Facility:	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	SUM Internal Outfall	Discharge:	SUM-N SUM OF OUTFALLS 1 & 7		

Report Dates & Status

Monitoring Period:	From 09/01/18 to 09/30/18	DMR Due Date:	10/28/18	Status:	NetDMR Validated
--------------------	---------------------------	---------------	----------	---------	------------------

Considerations for Form Completion

Principal Executive Officer

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

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	2 - Effluent Net	0	--	Sample								=	0.36	=	0.36	19 - mg/L		01/30 - Monthly	CA - CALCTD
					Permit Req.														01/30 - Monthly	CA - CALCTD
					Value NODI															

Submission Note

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

Edit Check Errors

No errors.

Comments

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

Attachments

Name	Type	Size
WVDP_September_2018_Net_Iron_Calc.pdf	pdf	30812

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:	2018-10-15 10:56 (Time Zone: -04:00)

Report Last Signed By

User:	janice.williams@chbwv.com
Name:	Janice Williams
E-Mail:	janice.williams@chbwv.com
Date/Time:	2018-10-15 14:28 (Time Zone: -04:00)

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - SEPTEMBER 1 THROUGH SEPTEMBER 30, 2018
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\begin{aligned}\text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 2794399.50 \text{ mg/month} \\ X1 &= 0.344 \text{ mg/L} \\ X2 &= 0.369 \text{ mg/L} \\ V1 &= 7838427.78 \text{ L/month}\end{aligned}$$

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

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.

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.36 \text{ mg/L}$$

ATTACHMENT (Cont'd)

SPDES DISCHARGE MONITORING REPORT - SEPTEMBER 1 THROUGH SEPTEMBER 30, 2018
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: September 13, 2018

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.265 \text{ MGD})(678 \text{ mg/L}) + (0.364 \text{ MGD})(195 \text{ mg/L}) + (0.274 \text{ MGD})(105 \text{ mg/L})) / (0.902 \text{ MGD}) \\ &= 310 \text{ mg/L} \end{aligned}$$

Date: September 18, 2018

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.265 \text{ MGD})(680 \text{ mg/L}) + (0.042 \text{ MGD})(179 \text{ mg/L}) + (0.274 \text{ MGD})(126 \text{ mg/L})) / 0.580 \text{ MGD} \\ &= 388 \text{ mg/L} \end{aligned}$$

-
- 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 C
Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Monday, October 15, 2018 3:33 PM
To: ewwohlers@cattco.org; christine.lee@chbwv.com; Jason Casper; William Kean; james.baker@chbwv.com; 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 5 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _fd268c64-91cf-415b-9f84-a9085ef208b2

User ID: janice.williams@chbwv.com

Timestamp: 10/15/2018 14:28:38

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: 09/30/18

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: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 09/30/18

Thank you.

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