

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Angela M. Cooney, Contracting Officer
U. S. Department of Energy
550 Main St., Room 7-010
Cincinnati, OH 45202

AC-PRES
WD:2020:1071
December 7, 2020

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period November 1 through November 30, 2020

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period November 1 through November 30, 2020 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 (716) 942-4865 or Elizabeth Lowes at (716) 942-3422.

Sincerely,

Approval Obtained Electronically

John D. Rendall
President & General Manager

JDR:WNK:bnj

Attachments: A) SPDES DMR for November 1 through November 30, 2020
B) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
D. P. Klenk, CHBWV
E. A. Lowes, CHBWV
J. K. Mantione, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
R. W. Platt, CHBWV
T. Stapleton, CHBWV
K. A. Wooley, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1930261

Attachment A
SPDES DMR

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - NOVEMBER 1 THROUGH NOVEMBER 30, 2020
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 0 \text{ mg/month}$$

$$X1 = 0.00 \text{ mg/L}$$

$$X2 = 0.00 \text{ mg/L}$$

$$V1 = 0.00 \text{ L/month}$$

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

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

$$X1 = 0.00 \text{ mg/L}$$

$$X2 = 0.00 \text{ mg/L}$$

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

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

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

$$X1 = 0.00 \text{ mg/L}$$

$$X2 = 0.00 \text{ mg/L}$$

$$X3 = 0.00 \text{ mg/L}$$

$$X4 = 0.00 \text{ mg/L}$$

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

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.

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

DMR Copy of Record

Permit			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM
Facility:	WEST VALLEY DEMONSTRATION PROJ		
Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799		

Report Dates & Status			
Monitoring Period:	From 11/01/20 to 11/30/20	DMR Due Date:	12/28/20
Status:	NetDMR Validated		

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	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	
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample													19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req.						Req Mon MO AVG	<=	22.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						>=	3.0 MINIMUM		Req Mon MAXIMUM						
					Value NODI						C - No Discharge		C - No Discharge							
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	10.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00400	pH	1 - Effluent Gross	0	--	Sample												12 - SU	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						>=	6.5 MINIMUM		<=	8.5 MAXIMUM					
					Value NODI						C - No Discharge		C - No Discharge							
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						<=	30.0 MO AVG	<=	45.0 DAILY MX						
					Value NODI						C - No Discharge		C - No Discharge							
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												25 - mL/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG	<=	0.3 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG	<=	15.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.1 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.4 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.15 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							

DMR Copy of Record

Permit			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	007 External Outfall	Discharge:	007-M SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER
Facility:	WEST VALLEY DEMONSTRATION PROJ		Facility Location:
		10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799	

Report Dates & Status			
Monitoring Period:	From 11/01/20 to 11/30/20	DMR Due Date:	12/28/20
Status:	NetDMR Validated		

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

DMR Copy of Record

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

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: **01B Internal Outfall** | Discharge: **01B-M MERCURY PRETREATMENT**

Report Dates & Status
 Monitoring Period: **From 11/01/20 to 11/30/20** | DMR Due Date: **12/28/20** | 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: **--**

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: **2020-12-02 14:53 (Time Zone: -05:00)**

Report Last Signed By
 User: **ELIZABETH.LOWES@CHBWV.COM**
 Name: **Elizabeth Lowes**
 E-Mail: **elizabeth.lowes@chbwv.com**
 Date/Time: **2020-12-04 12:05 (Time Zone: -05:00)**

DMR Copy of Record

Permit

Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY	Facility:	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	116 Internal Outfall	Discharge:	116-M PSEUDO MON. POINT @FRANKS CRK		

Report Dates & Status

Monitoring Period:	From 11/01/20 to 11/30/20	DMR Due Date:	12/28/20	Status:	NetDMR Validated
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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.	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
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

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
 Name: William Kean
 E-Mail: william.kean@chbwv.com
 Date/Time: 2020-12-02 14:53 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM
 Name: Elizabeth Lowes
 E-Mail: elizabeth.lowes@chbwv.com
 Date/Time: 2020-12-04 12:05 (Time Zone: -05:00)

DMR Copy of Record

Permit																		
Permit #:	NY0000973			Permittee:	U.S. DEPT OF ENERGY				Facility:	WEST VALLEY DEMONSTRATION PROJ								
Major:	Yes			Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585				Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799								
Permitted Feature:	SUM Internal Outfall			Discharge:	SUM-N SUM OF OUTFALLS 1 & 7													
Report Dates & Status																		
Monitoring Period:	From 11/01/20 to 11/30/20			DMR Due Date:	12/28/20				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	--									Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD
													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																		
												Name	Type	Size				
												WVDP_November_2020_Net_Iron_Calculation.pdf	pdf	335778.0				
Report Last Saved By																		
U.S. DEPT OF ENERGY																		
User:	william.kean@chbwv.com																	
Name:	William Kean																	
E-Mail:	william.kean@chbwv.com																	
Date/Time:	2020-12-02 14:54 (Time Zone: -05:00)																	
Report Last Signed By																		
User:	ELIZABETH.LOWES@CHBWV.COM																	
Name:	Elizabeth Lowes																	
E-Mail:	elizabeth.lowes@chbwv.com																	
Date/Time:	2020-12-04 12:05 (Time Zone: -05:00)																	