

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:2021:1055
December 15, 2021

ATTENTION: Moira Maloney

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, 2021

Dear Ms. Cooney:

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, 2021 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) 946-8825 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

Approval Obtained Electronically

John D. Rendall
President & General Manager

JDR:WNK:bnj

Attachment: A) SPDES DMR for November 1, 2021 through November 30, 2021
B) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP
C. Chun, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
D. P. Klenk, CHBWV
E. A. Lowes, CHBWV
D. M. Martinet, CHBWV
J. K. Mantione, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
K. A. Wooley, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #2030314

**Attachment
SPDES DMR**

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - NOVEMBER 1 THROUGH NOVEMBER 30, 2021
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\begin{aligned} \text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 159215.11 \text{ mg/month} \\ X1 &= 0.0330 \text{ mg/L} \\ X2 &= 0.0282 \text{ mg/L} \\ V1 &= 5203108.01 \text{ L/month} \end{aligned}$$

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

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

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

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.

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - \text{MRW}}{V1 + V7} = 0.031 \text{ mg/L}$$

ATTACHMENT (Cont=d)

**SPDES DISCHARGE MONITORING REPORT - NOVEMBER 1 THROUGH NOVEMBER 30, 2021
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973**

Date: November 11, 2021

$$\begin{aligned} C4 &= ((Q1)(C1)+(Q2)(C2)+(Q3)(C3))/Q4 \\ &= ((0.072 \text{ MGD})(808 \text{ mg/L})+(0.299 \text{ MGD})(84 \text{ mg/L})+(0.418 \text{ MGD})(172 \text{ mg/L}))/ (0.789 \text{ MGD}) \\ &= 197 \text{ mg/L} \end{aligned}$$

Date: November 23, 2021, 2021

$$\begin{aligned} C4 &= ((Q1)(C1)+(Q2)(C2)+(Q3)(C3))/Q4 \\ &= (0.072 \text{ MGD})(868 \text{ mg/L})+(0.979 \text{ MGD})(278 \text{ mg/L})+(0.418 \text{ MGD})(119 \text{ mg/L}))/1.469 \text{ MGD}) \\ &= 262 \text{ mg/L} \end{aligned}$$

-
-
- 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).

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

Report Dates & Status			
Monitoring Period:	From 11/01/21 to 11/30/21	DMR Due Date:	12/28/21
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						=	64.0	=	64.0	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						<	5.72	<	5.74	19 - mg/L	0	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req.						Req Mon MO AVG <=		22.0 DAILY MX	19 - mg/L					
					Value NODI														
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	8.8	=	11.0	19 - mg/L	0	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						>=	3.0 MINIMUM		Req Mon MAXIMUM	19 - mg/L				
					Value NODI														
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						<	2.0	<	2.0	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG <=		10.0 DAILY MX	19 - mg/L					
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample						=	8.1	=	8.1	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						<	4.0	<	4.0	19 - mg/L	0	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						<=	30.0 MO AVG	<=	45.0 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 <=		0.3 DAILY MX	25 - mL/L					
					Value NODI														
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample						=	2.6	=	2.6	19 - mg/L	0	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG <=		15.0 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 <=		0.1 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						=	0.6	=	0.6	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						<	0.03	<	0.03	19 - mg/L	0	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG <=		0.4 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 <=		0.15 DAILY MX	19 - mg/L					
					Value NODI														

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 11/01/21 to 11/30/21	DMR Due Date:	12/28/21
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

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 11/01/21 to 11/30/21	DMR Due Date:	12/28/21	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:	--																		
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.	Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d									01/07 - Weekly	CN - CONTIN
					Value NODI	C - No Discharge		C - No Discharge											
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample Permit Req.								Req Mon MO AVG	<=	50.0 DAILY MX	3M - ng/L		02/BA - Twice Per Batch	GR - GRAB
					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:	2021-12-13 10:41 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	ELIZABETH.LOWES@CHBWV.COM																		
Name:	Elizabeth Lowes																		
E-Mail:	elizabeth.lowes@chbwv.com																		
Date/Time:	2021-12-14 15:49 (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 11/01/21 to 11/30/21				DMR Due Date:				12/28/21				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.			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	Units			
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Sample						=	230.0	=	262.0	19 - mg/L	0	02/DS - Twice Per Discharge	CA - CALCTD				
					Permit Req.							Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	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 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																						
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:				2021-12-13 10:41 (Time Zone: -05:00)																		
Report Last Signed By																						
User:				ELIZABETH.LOWES@CHBWV.COM																		
Name:				Elizabeth Lowes																		
E-Mail:				elizabeth.lowes@chbwv.com																		
Date/Time:				2021-12-14 15:49 (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 11/01/21 to 11/30/21		DMR Due Date:	12/28/21					Status:	NetDMR Validated										
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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						=	0.031	=	0.031	19 - mg/L	0	01/30 - Monthly	CA - CALCTD		
					Permit Req.						Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L	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																				
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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:	2021-12-14 09:23 (Time Zone: -05:00)																			
Report Last Signed By																				
User:	ELIZABETH.LOWES@CHBWV.COM																			
Name:	Elizabeth Lowes																			
E-Mail:	elizabeth.lowes@chbwv.com																			
Date/Time:	2021-12-14 15:49 (Time Zone: -05:00)																			