

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:2017:0414
April 27, 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 March 1 through March 31, 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 March 1 – 31, 2017
B) Whole Effluent Toxicity (WET) Testing Summary Pages
C) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP
S. A. Anderson, CHBWV
J. J. Baker, CHBWV
L. E. Bennett, CHBWV (Public Reading Room)
J. L. Casper, CHBWV
N. Feher, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
C. B. Lee, CHBWV
L. J. Ortega, CHBWV
D. H. Pritchard, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1630217

Attachment A
SPDES DMR

ATTACHMENT

**SPDES DISCHARGE MONITORING REPORT – MARCH 1 THROUGH MARCH 31, 2017
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973**

$$\begin{aligned}\text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 0.00 \text{ mg/month} \\ X1 &= 0.00 \text{ mg/L} \\ X2 &= 0.00 \text{ mg/L} \\ V1 &= 0.00 \text{ L/month}\end{aligned}$$

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

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

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.

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

Permit

Permittee:	U.S. DEPT OF ENERGY
Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Discharge:	001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM

Permitted Feature: 001
External Outfall

Monitoring Period: From 03/01/17 to 03/31/17

DMR Due Date: 04/28/17

Status: NetDMR Validated

Principal Executive Officer

First Name: Bryan C.

Title: Director, USDOE-WWDP

Telephone: 716-942-4368

Last Name: Bower

No Data Indicator (NODI)

Form NODI: _____

Code	Parameter Name	Monitoring Location	Season	# Param.	NODI	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00154	Sulfate [as S]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG C - No Discharge	Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24	
00181	Oxygen demand, ultimate	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	22 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	CA - CALCTD	
00300	Oxygen, dissolved [DO]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI				>=	3 MINIMUM			C - No Discharge	Req Mon MAXIMUM	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB	
00310	BOD, 5-day, 20 deg. C	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	10 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24	
00400	pH	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI				>=	6.5 MINIMUM				<=	8.5 MAXIMUM	12 - SU		01/BA - Once Per Batch	GR - GRAB
00530	Solids, total suspended	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI							<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
00545	Solids, settleable	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	3 DAILY MX	25 - mL/L		02/BA - Twice Per Batch	GR - GRAB	
00556	Oil & Grease	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB	
00615	Nitrogen, nitrite total [as N]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24	
00620	Nitrogen, nitrate total [as N]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG C - No Discharge	Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24	
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG C - No Discharge	Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24	
00746	Sulfide, dissolved, [as S]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	4 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24	
00978	Arsenic, total recoverable	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24	
00979	Cobalt, total recoverable	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	005 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB	
00981	Selenium, total recoverable	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG <= C - No Discharge	004 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB	
01045	Iron, total [as Fe]	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI								Req Mon MO AVG C - No Discharge	Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24	

01105 Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample	<=	2 MO AVG C - No Discharge	<=	4 DAILY MX C - No Discharge	19 - mg/L	01/BA - Once Per Batch 24 - COMP24
01128 Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample		Req Mon MO AVG C - No Discharge	<=	.014 DAILY MX C - No Discharge	19 - mg/L	01/BA - Once Per Batch GR - GRAB
34726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample	<=	1.5 MO AVG C - No Discharge	<=	2.1 DAILY MX C - No Discharge	19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample		Req Mon MO AVG C - No Discharge				02/BA - Twice Per Batch CN - CONTIN
50060 Chlorine, total residual	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample		Req Mon MO AVG C - No Discharge	<=	.1 DAILY MX C - No Discharge	19 - mg/L	01/BA - Once Per Batch GR - GRAB
70295 Solids, total dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample		Req Mon MO AVG C - No Discharge		Req Mon DAILY MX C - No Discharge	19 - mg/L	02/BA - Twice Per Batch GR - GRAB
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample	<=	50 MO AVG C - No Discharge		Req Mon DAILY MX C - No Discharge	3M - ng/L	01/BA - Once Per Batch GR - GRAB
81646 Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI Sample		Req Mon MO AVG C - No Discharge	<=	.04 DAILY MX C - No Discharge	19 - mg/L	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

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:

2017-04-26 12:26 (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
 Permitted Feature: 001 Discharge: 001-W WEST VALLEY, NY 14171-9799
 External Outfall OUTFALL 001 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period: From 01/01/17 to 03/31/17 DMR Due Date: 05/28/17 Status: NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

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

No Data Indicator (NOD)

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		
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	-	Sample					=	0.3	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Permit Req.					<=	.3	MAXIMUM 2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI										
					Sample					=	1	2G - tox chronic		01/90 - Quarterly	24 - COMP24
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	-	Permit Req.					<=	1	MAXIMUM 2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI										
					Sample					=	0.3	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Permit Req.					<=	.3	MAXIMUM 2F - tox acute		01/90 - Quarterly	24 - COMP24
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	-	Value NODI										
					Sample					=	1	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Permit Req.					<=	1	MAXIMUM 2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI										
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	-	Sample					=	1	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Permit Req.					<=	1	MAXIMUM 2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI										
					Sample					=	1	2G - tox chronic		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

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 this DMR is as follows: 1) TestAmerica Buffalo: NY Lab No. 10026. Please note that Whole Effluent Toxicity (WET) Testing was completed, as required, at outfall 001. The appropriate DMR pages are included as Attachment A, and the summary result pages have been included as Attachment B. The complete report is being sent under separate cover to the Toxicity Testing unit.

Attachments

Name	Type	Size
09e3f7b6-0eff-4d5a-9c8a-c09fe8f03bae.pdf	pdf	93300

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwr.com Date/Time: 2017-04-26 12:26 (Time Zone: -04:00)
 Name: William Kean
 E-Mail: william.kean@chbwr.com

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@chbvv.com](#)

Name: William Kean

E-Mail: [william.kean@chbvv.com](#)

Date/Time:

2017-04-26 12:26 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #: NY0000973
 Major: Yes
 Permitted Feature: 007
 External Outfall
 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
 Discharge: 007-W
 OUTFALL 007 WET TESTING QUARTERLY

Report Dates & Status

Monitoring Period: From 01/01/17 to 03/31/17
 DMR Due Date: 05/28/17
 Status: NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

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				Units	# of Ex.	Frequency of Analysis	Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 1	Value 1	Qualifier 2	Value 2				
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample											
					Permit Req.											
					Value NODI											
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample											
					Permit Req.											
					Value NODI											
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample											
					Permit Req.											
					Value NODI											
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample											
					Permit Req.											
					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

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: 2017-04-26 12:26 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #: NY0000973
 Major: Yes
 Permitted Feature: 01B
 Internal Outfall
 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
 Discharge: 01B-M
 MERCURY PRETREATMENT

Report Dates & Status

Monitoring Period: From 03/01/17 to 03/31/17
 DMR Due Date: 04/28/17
 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 Code	Monitoring Location	Season #	Param. NODI	Quantity or Loading	Quality or Concentration	# of Ex.	Frequency of Analysis	Sample Type
Name				Qualifier 1 Value 1 Qualifier 2 Value 2 Units	Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Value 3 Units			
00058 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	Req Mon 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: 2017-04-26 12:26 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #: NY0000973
Major: Yes
Permitted Feature: 116
Internal Outfall

Permittee: U.S. DEPT OF ENERGY
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585
Discharge: 116-M
PSEUDO MON. POINT @FRANKS CRK

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

Report Dates & Status

Monitoring Period: From 03/01/17 to 03/31/17
DMR Due Date: 04/28/17
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-WWDP
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
70295	Solids, total dissolved Z - Instream Monitoring D		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: 2017-04-26 12:26 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #: NY0000973
 Major: Yes
 Permitted Feature: SUM
 Internal Outfall
 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
 Discharge: SUM-N
 SUM OF OUTFALLS 1 & 7

Report Dates & Status

Monitoring Period: From 03/01/17 to 03/31/17
 DMR Due Date: 04/28/17
 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		
01045	Iron, total [as Fe] 2 - Effluent Net		0	—	Sample Permit Req. Value NODI					Req Mon MO AVG <=				1 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

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: 2017-04-26 12:26 (Time Zone: -04:00)

Attachment B
Whole Effluent Toxicity (WET) Testing Summary Pages

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

Facility Name: West Valley Demonstration Project Test Start Date: 1/13/17
 NPDES Permit Number: NY0000973 Pipe Number: 001

<u>Test Type</u>	<u>Test Species</u>	<u>Sample Type</u>	<u>Sample Method</u>
☐ Acute	☐ Fathead Minnow	☐ Prechlorinated	☐ Grab
☐ Chronic	☒ Ceriodaphnia	☐ Dechlorinated	☒ Composite
☒ Modified	☐ Daphnia Pulex	☐ Chlorine Spiked in Lab	☐ Flowthru
(chronic reporting	☐ Mysid Shrimp	☐ Chlorinated on site	☐ Other
acute values)	☐ Sheepshead	☒ Unchlorinated	
☐ 24hr screening	☐ Menidia		
	☐ Sea Urchin		
	☐ Champia	TRC: <u>0.020</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): 1/11-12/17 1/15-16/17

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: 1/3/17

Test Acceptability Criteria

Mean Control Survival: <u>90%</u>	Mean Control Reproduction: <u>27.6 young/female</u>
Mean Diluent Survival: <u>100%</u>	Mean Diluent Reproduction: <u>37.2 young/female</u>

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

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

Facility Name: West Valley Demonstration Project Test Start Date: _____
 NPDES Permit Number: NY0000973 Pipe Number: 001

<u>Test Type</u>	<u>Test Species</u>	<u>Sample Type</u>	<u>Sample Method</u>
☐ Acute	☒ Fathead Minnow	☐ Prechlorinated	☐ Grab
☐ Chronic	☐ Ceriodaphnia	☐ Dechlorinated	☒ Composite
☒ Modified	☐ Daphnia Pulex	☐ Chlorine Spiked in Lab	☐ Flowthru
(chronic reporting	☐ Mysid Shrimp	☐ Chlorinated on site	☐ Other
acute values)	☐ Sheepshead	☒ Unchlorinated	
☐ 24hr screening	☐ Menidia		
	☐ Sea Urchin		
	☐ Champia	TRC: <u>0.020 mg/L</u>	
	☐ 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): _____

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: 1/3/17

Test Acceptability Criteria

Mean Control Survival: <u>95%</u>	Mean Control Weight: <u>0.588 mg</u>
Mean Diluent Survival: <u>100%</u>	Mean Diluent Weight: <u>0.531 mg</u>

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

Attachment C
Email Confirmation from NYSDEC

From: <netdmr-notification@epa.gov>
To: <Christine.Lee@CHBWV.com>, <DOW.spdesDMR@dec.ny.gov>, <ewwohlers@cattco....>
Date: 4/26/2017 12:31 PM
Subject: NetDMR COR Submission Received for: NY0000973
Attachments: NetDMR_COR_1536129_NY0000973_001_M_20170331.zip;
 NetDMR_COR_1536130_NY0000973_001_W_20170331.zip;
 NetDMR_COR_1536131_NY0000973_007_M_20170331.zip;
 NetDMR_COR_1536132_NY0000973_007_W_20170331.zip;
 NetDMR_COR_1536133_NY0000973_01B_M_20170331.zip;
 NetDMR_COR_1536134_NY0000973_116_M_20170331.zip;
 NetDMR_COR_1536135_NY0000973_SUM_N_20170331.zip

NetDMR has received the signed 7 DMR(s) and created the Copies of Record (CORs) for the 7 DMR(s) below. The submission will be forwarded for further processing.

 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: 03/31/17
 COR Signature:
 13ced3a9d6d000ef29096c26f228077609f97ea7aed492c6c9cd9435bdb875a29fbbec361f684823a71cc6e
 19ef486ec954bf5e1ce4e8a18754a31d0a6d1a237604afc9763406997d0f7ea2213c9ae0877d422d009c21
 e01e9257c59ebef21b94d5b7593c98b467cd1a74b4ea28ab475be7e4182e237034092750fb41d6a8611
 Attachments included in the COR: No

 Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
 Permit ID: NY0000973
 Permitted Feature: 001
 Discharge: W - OUTFALL 001 WET TESTING QUARTERLY
 Monitoring Period End Date: 03/31/17
 COR Signature:
 1c99d6ae88dbd77704bbd03524388aa74e049ab4b2157c0cf741c5451093066b3c65eb3b35ee57a49ed60
 1fa5f02173219b6f8260d708099433acebee1e65eb87b19dec86ca11d3788585e3e5522fd5b47f9e242901
 b2e05939a9187f5371388bc29d06ecf08ed41ce9f69ac605b636c632abf2330390135b01eacad3fc6144
 Attachments included in the COR: Yes

09e3f7b6-0eff-4d5a-9cba-c09fe8f03bae.pdf

 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: 03/31/17
 COR Signature:
 67b063524e675be1843d769d39d1ea214718bd20b68cd3c69d78c8f0a6d984965413b36fce3e772fc852af
 77a2ad3fa083c6c4d1647e1b6307423276a94595b08785dbef3d3387e24f1ad3a31f3efdef30bf49dc20fe4
 1f32c64ca9d02eff2044c600f2ede2f01f7207325c9c4c2d9bca0cd5520b6db9a54c7c0d23bef3847d
 Attachments included in the COR: No

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

Discharge: W - OUTFALL 007 WET TESTING QUARTERLY

Monitoring Period End Date: 03/31/17

COR Signature:

08abfee69457ed59d82fb22a67bc85322ebb188e9b06389581390d7d2010ffae71f463c7c03a86a09cd3f68
e2a911d531cfb3b3b62777d71533f447a36a6831d3f8f1da46916abf26db6011f412214a733a161460c28fd
ebf13b0e0ed6e7a81e7bcab9715f0892f37a71aadd7edf5a201d6771b5b191f42c5d616a51dfd3dad3

Attachments included in the COR: No

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973

Permitted Feature: 01B

Discharge: M - MERCURY PRETREATMENT

Monitoring Period End Date: 03/31/17

COR Signature:

5ab4173618492b7685dc8018a7eaff4f25fbb6c45146b3fe1e23dd2a021d1511f306fc032d44700276a74860
c19df5098e12dbc7f68a936bc47ec9a44b8d6671ad950864f5b55d1a012af993a1880e284f15255bf45d8fd1
af53edc085896885cbd87756d41ad489d05d447cf362db57e8d2c4200b0d0b2562dedba3954c778c

Attachments included in the COR: No

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973

Permitted Feature: 116

Discharge: M - PSEUDO MON. POINT @FRANKS CRK

Monitoring Period End Date: 03/31/17

COR Signature:

860a4dd58036defb2084fa6aacfd31d8df78eafde315446f9129353a73da7d8f6d12498d45761ad474357d0
550ef8d0fca11c3a62ba1109df991338dc09a1450fb26f177b26ea28b6dd65bdcface396a5a056810b9c022
59c26a86d018d577743f9ab573a40f03e7c0cdb245beffbcb4cd645c16f46ba7af84f5bdf12dd273af

Attachments included in the COR: No

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973

Permitted Feature: SUM

Discharge: N - SUM OF OUTFALLS 1 & 7

Monitoring Period End Date: 03/31/17

COR Signature:

3af65b29328f3a4b17203d3a0c9bd0a24d0268771c8c84846c9968994d820c95bf07ffa98e9c1a2be0b52e6
354732fdf4a83e3261a8984c2e91e91cb24ed994fb3b4336ca4ebf7df6e449d6af45ce7488be37fb6b951a3b
74e56c4170d4c84eed07545526cfb10b85bf36eaabc105dfd4bc5e09783bd3a41f4a4626f2663bb27

Attachments included in the COR: No

Thank you.

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

Subject: NetDMR COR Submission Received for: NY0000973
Created By: netdmr-notification@epa.gov
Scheduled Date:
Creation Date: 4/26/2017 12:31 PM
From: <netdmr-notification@epa.gov>

Recipient	Action	Date & Time	Comment
To: (R9.NetDMR@dec.ny.gov)			
To: (DOW.spdesDMR@dec.ny.gov)			
To: (ewwohlers@cattco.org)			
To: Amanda Steiner (Amanda.Steiner@emcbc.doe.gov)			
To: Bonnie Jeffery (Bonnie.Jeffery@chbwv.com)			
To: Christine Lee (Christine.Lee@chbwv.com)			
To: James Baker (James.Baker@chbwv.com)			
To: Janice Williams (Janice.Williams@chbwv.com)			
To: Jason Casper (Jason.Casper@chbwv.com)			
To: Jennifer Dundas (Jennifer.Dundas@emcbc.doe.gov)			
To: Lynette Bennett (Lynette.Bennett@chbwv.com)			
To: Moira Maloney (Moira.Maloney@emcbc.doe.gov)			
To: William Kean (William.Kean@chbwv.com)			