### 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:2017:0733 July 27, 2017

SUBJECT:

Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System

(SPDES) Discharge Monitoring Reports (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 June 1 through June 30, 2017 has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

Also attached are the results of the storm water monitoring for the period of January 1, 2017 through June 30, 2017, as well as the Whole Effluent Toxicity (WET) testing results completed in April 2017.

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

Sot a. Cerdensu for

JDB:WNK:bnj

Attachments:

A) SPDES DMR for June 1 - 30, 2017

B) Storm Water Monitoring Results

C) WET Testing Summary Pages

D) Email Confirmation from NYSDEC

cc:

B. C. Bower, DOE-WVDP

S. A. Anderson, CHBWV

J. J. Baker, CHBWV

J. L. Casper, CHBWV

C. Dayton, CHBWV (Public Reading Room)

N. Feher, CHBWV

L. K. Hollfelder, CHBWV

W. N. Kean, CHBWV

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 #1630358

Attachment A SPDES DMR State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2017, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2017 through June 30, 2017

The West Valley Demonstration Project's SPDES DMR for the reporting period June 1 through June 30, 2017 including the Net Iron calculation sheet has been provided electronically.

CHBWV is also submitting for your use, analytical results and data for the semi-annual storm water monitoring period of January 1, 2017 through June 30, 2017, as Attachment B. All storm water sampling results were within applicable limits specified on page 14 of 31 of the SPDES permit for oil & grease.

Storm water samples were collected on May 25, June 15, June 19, and June 26, 2017. The on-site pH, measured near the site's rain gauge on each of these dates was: 8.3 SU; 7.8 SU; 7.8 S.U.; and 8.0 SU respectively.

In addition, semi-annual lead sampling was completed on May 25, 2017 at storm water outfall S-43 located at the Live Fire Range with reported results of 0.015 mg/L, with an action level of 0.006 mg/L. Although this result is above the action level, the drainage ditch that runs along the eastern border of the range was recently regraded prior to the storm water sampling event and it is believe that the significant amount of sediment in the sample biased this result high. During the second semi-annual sampling period for total lead, an additional sample will also be collected and analyzed for dissolved lead.

Storm water sampling conducted on June 19, 2017 included outfalls S04; S06; and S09. Please note that the duration between storm events was less than the 72 hours as normally required, however each of the outfalls had minimal flow above normal conditions. As the time frame for sampling was coming to a close, the decision was made to sample the June 19, 2017 storm event.

Storm water outfall S34 was not collected during the June 19, 2017 event because the flow at this outfall did not increase in volume. Outfall S34 was collected on June 26, 2017. Please note that the duration between storm events was less than the 72 hours as normally required, however the outfall had minimal flow above normal conditions. As the time frame for sampling was coming to a close, the decision was made to sample the June 26, 2017 storm event.

Please note that, in accordance with the Schedule of Compliance sampling requirements contained on page 23 of 31 for Paraquat Dichloride Herbicide (Gramoxone Extra), the site has not used herbicides during this storm water monitoring period of January 1 through June 30, 2017, and therefore, storm water outfalls were not analyzed for Paraquat Dichloride.

WET testing was completed at outfall 001 in April 2017. In regards to the Whole Effluent Toxicity (WET) testing results for outfall 001, the complete test report was previously reported to Ms. Nicole Wright in a letter dated June 28, 2017. In that letter it was noted that the test results for *Ceriodaphnia dubia* were within permit limits. Test results for *Pimephales promelas* were within the acute limits, but outside of the chronic limits and therefore, the reported result of 2 is above the action level of 1. As stated in the original test report letter, results have been certified by both the testing laboratory and permittee. Mortality observed in the chronic test for *Pimephales promelas* is consistent with pathogen (fungus) interference as described in the test reference manual. An indicator of this interference, sporadic mortality, was observed in the 100% effluent concentration, with survival of 0%, 20%, 90% and 100% for the four replicates used for the test.

Permit

Permit #:

Major:

NY0000973

External Outfall

Yes

001

Bower

Permittee:

Discharge:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

001-M

OUTFALL 001 MONTHLY PROC WW, GW, STORM

Report Dates & Status

**Permitted Feature:** 

From 06/01/17 to 06/30/17 **Monitoring Period:** 

DMR Due Date: 07/28/17 Status: **NetDMR Validated** 

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD

WEST VALLEY, NY 14171-9799

Facility:

Facility Location:

**Considerations for Form Completion** 

Principal Executive Officer

Bryan C. First Name:

Title:

Director, USDOE-WVDP

Telephone: 717-942-4368

No Data Indicator (NODI)

Last Name:

Form NODI:

	Parameter	Monitoring Location	n Season # P	aram. NODI				uantity or Load						lity or Concent				# of Ex. F	requency of Analysis	Sample Typ
ode	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units Qua	alifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample															
0154 Sulfa	ate [as S]	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	3	Req Mon DAILY M	IX 19 - mg/L	0	1/BA - Once Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0181 Oxyg	gen demand, ultimate	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	<del>}</del> <=	22 DAILY MX	19 - mg/L	0:	2/BA - Twice Per Batch	CA - CALCT
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0300 Oxyg	gen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.					>=	3	3 MINIMUM				Req Mon MAXIMU	IM 19 - mg/L	0:	2/BA - Twice Per Batch	GR - GRAB
					Value NODI						C	C - No Discharge				C - No Discharge				
					Sample															
0310 BOD	), 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.									eq Mon MO AVO	G <=	10 DAILY MX	19 - mg/L	0:	2/BA - Twice Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0400 pH		1 - Effluent Gross	0		Permit Req.					>=	6	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU	0	1/BA - Once Per Batch	GR - GRAB
					Value NODI						C	C - No Discharge				C - No Discharge				
					Sample															
0530 Solid	ds, total suspended	1 - Effluent Gross	0		Permit Req.								<= 30	MO AVG	<=	45 DAILY MX	19 - mg/L	0:	2/BA - Twice Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0545 Solid	ds, settleable	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	S <=	.3 DAILY MX	25 - mL/L	0:	2/BA - Twice Per Batch	GR - GRAB
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0556 Oil &	Grease	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	<b>=</b>	15 DAILY MX	19 - mg/L	0	1/BA - Once Per Batch	GR - GRAB
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
00615 Nitro	gen, nitrite total [as N]	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	<del>}</del> <=	.1 DAILY MX	19 - mg/L	0	1/BA - Once Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0620 Nitro	gen, nitrate total [as N]	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	3	Req Mon DAILY M	IX 19 - mg/L	0	1/BA - Once Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0625 Nitro	gen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	3	Req Mon DAILY M	IX 19 - mg/L	0:	2/BA - Twice Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0746 Sulfic	de, dissolved, [as S]	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	<del>}</del> <=	.4 DAILY MX	19 - mg/L	0	1/BA - Once Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
00978 Arser	nic, total recoverable	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	<b>&gt;=</b>	.15 DAILY MX	19 - mg/L	0	1/BA - Once Per Batch	24 - COMP2
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0979 Coba	alt, total recoverable	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	G <=	.005 DAILY MX	19 - mg/L	0	1/BA - Once Per Batch	GR - GRAB
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample															
0981 Seler	nium, total recoverable	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	G <=	.004 DAILY MX	19 - mg/L	0	1/BA - Once Per Batch	GR - GRAB
					Value NODI								С	- No Discharge		C - No Discharge				
					Sample									3						
1045 Iron.	total [as Fe]	1 - Effluent Gross	0		Permit Req.								Re	eq Mon MO AVO	3	Req Mon DAILY M	IX 19 - mg/L	0:	2/BA - Twice Per Batch	24 - COMP2
	•				Value NODI									- No Discharge		C - No Discharge				

			Sample									
01105 Aluminum, total [as Al]	1 - Effluent Gross	0	 Permit Req.				<=	2 MO AVG	<=	4 DAILY MX	19 - mg/L	01/BA - Once Per Batch 24 - COMP24
			Value NODI					C - No Discharge		C - No Discharge		
			Sample									
01128 Vanadium, total recoverable	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L	01/BA - Once Per Batch GR - GRAB
			Value NODI					C - No Discharge		C - No Discharge		
			Sample									
34726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	 Permit Req.				<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
			Value NODI					C - No Discharge		C - No Discharge		
			Sample									
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	 Permit Req.	Req Mon MO AVG	Req Mon DAILY MX	03 - MGD						02/BA - Twice Per Batch CN - CONTIN
			Value NODI	C - No Discharge	C - No Discharge							
			Sample									
50060 Chlorine, total residual	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch GR - GRAB
			Value NODI					C - No Discharge		C - No Discharge		
			Sample									
70295 Solids, total dissolved	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG	i	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch GR - GRAB
			Value NODI					C - No Discharge		C - No Discharge		
			Sample									
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	 Permit Req.				<=	50 MO AVG		Req Mon DAILY MX	3M - ng/L	01/BA - Once Per Batch GR - GRAB
			Value NODI					C - No Discharge		C - No Discharge		
			Sample									
81646 Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	 Permit Req.					Req Mon MO AVG	<=	.04 DAILY MX	19 - mg/L	01/BA - Once 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

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 this DMR are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501.

#### Attachments

NameTypeSizeWVDP\_2017\_STORMWATER\_DATA.pdfpdf141503WVDP\_June\_2017\_DMR\_Synopsis.pdfpdf70004

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:

2017-07-26 16:50 (Time Zone: -04:00)

Permit #:

NY0000973

Permittee: U.S Permittee Address: 100

U.S. DEPT OF ENERGY

Facility:

WEST VALLEY DEMONSTRATION PROJ

Major:

Yes

Bower

1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

**Facility Location:** 

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Permitted Feature:

001 External Outfall Discharge: 00

001-S OUTFALL 001 SEMI-ANNUAL

Report Dates & Status

Monitoring Period: From 01/01/17 to 06/30/17

DMR Due Date: 07/28/17

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Bryan C.

Title: Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

Last Name:

	Parameter	<b>Monitoring Location</b>	Season #	# Param. NODI			Quanti	ity or Loadi	ng			Quality or Cor	ncentration		# 0	of Ex. Freq	uency of Analysis	s Sample Typ
Code	Name					Qualifier 1	Value 1	1 Qualifier 2	Value 2 Un	its Qualifier	1 Value 1 Qualifier 2	2 Value 2	Qualifier 3	3 Value 3	Units			
					Sample						<	0.005	<	0.005	19 - mg/L	02/YF	R - Twice Per Year	GR - GRAB
0722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	.005 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	GR - GRAB
					Value NODI													
					Sample						=	0.05	=	0.05	19 - mg/L	02/YF	R - Twice Per Year	24 - COMP2
1055	Manganese, total [as Mn]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	2 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	24 - COMP2
					Value NODI													
					Sample						=	0.0021	=	0.0021	19 - mg/L	02/YF	R - Twice Per Year	24 - COMP2
01067	Nickel, total [as Ni]	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	.079 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	24 - COMP2
					Value NODI													
					Sample						=	0.0075	=	0.0075	19 - mg/L	02/YF	R - Twice Per Year	24 - COMP2
01094	Zinc, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	.13 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	24 - COMP2
					Value NODI													
					Sample						=	0.0003	=	0.0003	19 - mg/L	02/YF	R - Twice Per Year	24 - COMP2
01114	Lead, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	.006 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	24 - COMP2
					Value NODI													
					Sample						=	0.0011	=	0.0011	19 - mg/L	02/YF	R - Twice Per Year	24 - COMP2
01118	Chromium, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	.11 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	24 - COMP2
					Value NODI													
					Sample						=	0.0024	=	0.0024	19 - mg/L	02/YF	R - Twice Per Year	24 - COMP2
01119	Copper, total recoverable	1 - Effluent Gross	0		Permit Req.							Req Mon MO AV	G <=	.014 DAILY MX	19 - mg/L 0	02/YF	R - Twice Per Year	24 - COMP2
					Value NODI													
					Sample						<	0.007	<	0.007	28 - ug/L	02/YF	R - Twice Per Year	GR - GRAB
39410	Heptachlor	1 - Effluent Gross	0		Permit Req.						<=	.01 MO AVG		Req Mon DAILY MX	28 - ug/L 0	02/YF	R - Twice Per Year	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 this DMR is as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501.

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:

2017-07-26 16:50 (Time Zone: -04:00)

Permit Permittee: U.S. DEPT OF ENERGY WEST VALLEY DEMONSTRATION PROJ Permit #: NY0000973 Facility: Major: Yes **Permittee Address:** 1000 INDEPENDENCE AVE SW **Facility Location:** 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799 WASHINGTON, DC 20585 001 Discharge: **Permitted Feature:** 001-V External Outfall OUTFALL 001 ACTION LEVELS SEMI-ANNUAL Report Dates & Status Monitoring Period: From 01/01/17 to 06/30/17 **DMR Due Date:** 07/28/17 Status: NetDMR Validated **Considerations for Form Completion** SEE PERMIT FOR REPORTING REQUIREMENTS **Principal Executive Officer** Title: Director, USDOE-WVDP Telephone: 717-942-4368 First Name: Bryan C. **Last Name:** Bower No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI Parameter **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 Name Units Sample 19 - mg/L 02/YR - Twice Per Year 24 - COMP24 01022 Boron, total [as B] Permit Reg. V - See Comments 2 DAILY MX 19 - mg/L 0 02/YR - Twice Per Year 24 - COMP24 Value NODI Sample 02/YR - Twice Per Year 24 - COMP24 0.0011 19 - mg/L 01152 Titanium, total [as Ti] V - See Comments 0 Permit Reg. .65 DAILY MX 19 - mg/L 0 02/YR - Twice Per Year 24 - COMP24 Value NODI 02/YR - Twice Per Year 24 - COMP24 Sample 0.37 19 - mg/L 71870 Bromide [as Br] V - See Comments 0 Permit Req. 5 DAILY MX 19 - mg/L 0 02/YR - Twice Per Year 24 - COMP24 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 this DMR is as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Attachments No attachments. Report Last Saved By **U.S. DEPT OF ENERGY** User: william.kean@chbwv.com Date/Time: 2017-07-26 16:50 (Time Zone: -04:00) Name: William Kean E-Mail: william.kean@chbwv.com

Permit																	
Permit	#:	NY0000973	Per	rmittee:		U.S. D	EPT OF ENERG	Υ		Faci	ility:		WEST	VALLEY DEN	ONST	TRATION PROJ	
Major:		Yes	Per	rmittee Ad	dress:		NDEPENDENCE INGTON, DC 20	_		Faci	ility Locati	on:		ROCK SPRIN VALLEY, NY			
Permit	ted Feature:	001 External Outfall	Dis	scharge:		001-W OUTF		ESTING QUARTI	ERLY								
Report	Dates & Status																
Monito	ring Period:	From 04/01/17 to 06/30/17	DM	IR Due Dat	e:	08/28/	17			Stat	tus:		NetDN	IR Validated			
Consid	lerations for Form (	Completion															
SEE PI	ERMIT FOOTNOTES	FOR WET TESTING REQU	JIREMENTS														
Princip	al Executive Office	r															
First N	ame:	Bryan C.	Title	le:		Directo	or, USDOE-WVD	P		Tele	ephone:		716-94	12-4368			
Last Na	ame:	Bower															
No Dat	a Indicator (NODI)																
Form N	IODI:																
	Para	meter	Monitoring Locati	ion Season	# Param. NODI			ity or Loading			Quality or Co				# of Ex	c. Frequency of An	alysis Sample Type
Code		Name				Sample	Qualifier 1 Value	Qualifier 2 Value 2	2 Units Qualifie	er 1 Value 1 Qualifie	er 2 Value 2 Q		0.3	Units 2F - tox acute		01/90 - Quarterly	24 - COMP24
61425	Toxicity [acute], Cerioda	ohnia dubia	V - See Comments	s 0		Permit Req.					<:			2F - tox acute	0	01/90 - Quarterly	24 - COMP24
						Value NODI										·	
						Sample					=		1	2G - tox chronic		01/90 - Quarterly	24 - COMP24
61426	Toxicity [chronic], Ceriod	apnnia dubia	V - See Comments	s 0		Permit Req. Value NODI					<:	-	1 MAXIMUM	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
						Sample					=		0.3	2F - tox acute		01/90 - Quarterly	24 - COMP24
61427	Toxicity [acute], Pimepha	les promelas [Fathead Minnow]	V - See Comments	s 0		Permit Req.					<:	=	.3 MAXIMUN	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
						Value NODI Sample					=		2	2G - tox chronic		01/90 - Quarterly	24 - COMP24
X 61428	Toxicity [chronic], Pimep	nales promelas [Fathead Minnow]	V - See Comments	s 0		Permit Req.					<:			2G - tox chronic	1	01/90 - Quarterly	24 - COMP24
						Value NODI											
	ssion Note														_		
		contain any values for the Sa	ample nor Effluer	nt Trading,	then none of	the follow	ing fields will be	submitted for tha	at row: Units,	Number of Excu	rsions, Free	quency	of Analysis,	and Sample	ype.		
Edit Cl	neck Errors																
		Parameter		8.0 %			_		_								
Code		Name		Wonit	oring Locatio	n	r	Field	Ty	rpe			Description	on			Acknowledge
61428	Toxicity [chronic], Pi	mephales promelas [Fathead M	linnow]	V - See C	Comments	Quali	ty or Concentratio	n Sample Value 3	Sof	t The provided	l sample val	ue is out	side the perr	nit limit. (Error C	ode: 1)	)	Yes
Comm	ents																
As requis as fo	uired in Title 6 of the l	New York State Codes, Rule a: NY Lab No. 10026; and 2) r the Pimephales promelas f	General Engine	ering Laboi	ratory: NY La	b No. 1150	01. Please note t										
Attach		r the r imephales prometas r	anca auc to a po	osibic pati	logeri (lariga	3) Interiore	1100.										
Attaon	ments				Nama									Tuno		c:	
<b>NA</b> (1)		A 47 K			Name								10	Туре		Siz	ze
	Effluent_Toxicty_Sumn	iary_Apr_17.paf											pdf		1	10195	
-	Last Saved By																
	EPT OF ENERGY																
User:		n@chbwv.com						Date/Time:			2017-07-2	6 16:50	) (Time Zo	ne: -04:00)			
Name:	William K																
E-Mail:	william.kea	n@chbwv.com															

Permit

Permit #: NY0000973

Permittee: U.S. DEPT OF ENERGY

Major: Yes

Permittee Address: 1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

Permitted Feature: 007 Discharge: 007-M External Outfall SANITA

SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Facility:

Facility Location:

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD

WEST VALLEY, NY 14171-9799

Report Dates & Status

Monitoring Period: From 06/01/17 to 06/30/17 DMR Due Date: 07/28/17 Status: NetDMR Validated

**Considerations for Form Completion** 

Principal Executive Officer

First Name: Bryan C. Title: Director, USDOE-WVDP Telephone: 717-942-4368

Last Name: Bower

No Data Indicator (NODI)

Parameter	Monitoring Locatio	n Seasor	n # Param. NO	DI		Q	uantity or Load	dina				(	Quality or Concenti	ation			# of Ex. Frequency of Ana	lysis Sample Ty
Code Name	monitoring Locatio	oodooi		J.	Qualifier 1	Value 1	Qualifier 2	Value 2	Units 0	Qualifier 1	Value 1	Qualifier		Qualifier 3	Value 3	Units	" of Ext. 110quondy of Airc	ilyolo oumpio iy
Thains				Sample			44411101 =	74.40 2	00		70.00	444411101	- ''		74.40	O i i i i		
00181 Oxygen demand, ultimate	1 - Effluent Gross	0		Permit Req									Reg Mon MO AVO	i <=	22 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCT
and the second s				Value NOD									C - No Discharge		C - No Discharge		,	
				Sample									- The Electric gr					
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req					>	=	3 MINIMUM				Req Mon MAXIMUM	I 19 - ma/L	02/30 - Twice Per M	Nonth GR - GRAB
,31 ,1111 11				Value NOD							C - No Discharge	)			C - No Discharge			
				Sample														
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO	i <=	10 DAILY MX	19 - mg/L	02/30 - Twice Per M	Month 24 - COMP
_				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
00400 pH	1 - Effluent Gross	0		Permit Req					>	=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per M	Month GR - GRAB
				Value NOD	I						C - No Discharge	)			C - No Discharge			
				Sample														
00530 Solids, total suspended	1 - Effluent Gross	0		Permit Req								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L	02/30 - Twice Per M	Month 24 - COMP
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample											_			
00545 Solids, settleable	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO	i <=	.3 DAILY MX	25 - mL/L	02/30 - Twice Per M	Month GR - GRAB
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
00556 Oil & Grease	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO	i <=	15 DAILY MX	19 - mg/L	02/30 - Twice Per M	Month GR - GRAB
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
00615 Nitrogen, nitrite total [as N]	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO	i <=	.1 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP2
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
00625 Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req	-								Req Mon MO AVO	i	Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
01045 Iron, total [as Fe]	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO	i	Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per M	Month 24 - COMP
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
34726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0		<b>Permit Req</b>								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per M	Month 24 - COMP
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req	. F	Req Mon MO AV	'G I	Req Mon DAILY MX	03 - MGD								01/30 - Monthly	CN - CONT
				Value NOD	I	C - No Discharge	)	C - No Discharge										
				Sample														
50060 Chlorine, total residual	1 - Effluent Gross	0		<b>Permit Req</b>	-								Req Mon MO AVO	i <=	.1 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
70295 Solids, total dissolved	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO		Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per M	Month GR - GRAB
				Value NOD	I								C - No Discharge		C - No Discharge			
				Sample														
71900 Mercury, total [as Hg]	1 - Effluent Gross	0		Permit Req									Req Mon MO AVO	i <=	50 DAILY MX	3M - ng/L	01/30 - Monthly	GR - GRAB
				<b>Value NOD</b>	I								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

Date/Time: 2017-07-26 16:50 (Time Zone: -04:00)

Name: William Kean

E-Mail: william.kean@chbwv.com

Permit #:	NY000097	73		Perr	nittee:			U.S. DE	PT OF	ENER	GY			Facility:			WEST	/ALLEY	DEMO	NST	RATION	PROJ	
Major:	Yes			Perr	nittee Add	dress:		1000 INI WASHIN				SW		Facility L	_ocation	n:	10282 F WEST \						
Permitted Feature	e: SUM Internal O	utfall		Disc	charge:			SUM-N SUM OF	OUT	FALLS	1 & 7												
Report Dates & S	Status			·																			
Monitoring Period	d: From 06/0	01/17 to 06/	/30/17	DMF	R Due Dat	e:		07/28/17						Status:			NetDMI	R Valida	ited				
Considerations for	or Form Completio	on																					
Principal Executiv	ive Officer																						
First Name:	Bryan C.			Title	):			Director,	USD	OE-WV	DP			Telephoi	ne:		717-942	2-4368					
Last Name:	Bower												•										
No Data Indicator	r (NODI)			·																			
Form NODI:																							
Parameter	Monitoring Location	Season # Pa	aram. NODI				or Load	_						ty or Conce		-				x. Fre	quency o	f Analysis	Sample Typ
Code Name				Sample	Qualifier 1 \	Value 1	Qualifier	2 Value 2	Units (	Qualifier '	1 Value 1	Qualifier 2	2 V	/alue 2	Qualifie	r 3	Value 3	Units					
																			_	-			
01045 Iron, total [as Fe]	e] 2 - Effluent Net	0	P	ermit Req.									Req M	on MO AVG	÷ <=	1 D/	AILY MX	19 - mg/	L	01/3	0 - Month	ly	CA - CALCTI
		0		Permit Req. /alue NODI										on MO AVG Discharge	G <=		AILY MX No Discharge	-	L	01/3	0 - Month	ly	CA - CALCTI
Submission Note	•		V	/alue NODI						C 11			C - No	Discharge		C - 1	No Discharge						
Submission Note If a parameter row	does not contain ar		V	/alue NODI	uent Tradi	ing, the	n none	of the fo	lowin	g fields <sup>v</sup>	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge						
Submission Note If a parameter row Edit Check Errors	does not contain ar		V	/alue NODI	uent Tradi	ing, the	n none	of the fol	lowing	g fields v	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge						
Submission Note If a parameter row Edit Check Errors No errors.	does not contain ar		V	/alue NODI	uent Tradi	ing, the	n none	of the fol	lowin	g fields v	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge						
Submission Note If a parameter row Edit Check Errors	does not contain ar		V	/alue NODI	uent Tradi	ing, the	n none	of the fo	lowin	g fields <sup>v</sup>	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge						
Submission Note If a parameter row Edit Check Errors No errors. Comments	does not contain ar		V	/alue NODI	uent Tradi	ing, the	n none	of the fo	lowin	g fields <sup>v</sup>	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge						
Submission Note If a parameter row Edit Check Errors No errors.	does not contain ar		V	/alue NODI	uent Tradi			of the fol	lowin	g fields v	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge		ency of	f Ana		d Sampl	е Туре.
Submission Note If a parameter row Edit Check Errors No errors. Comments  Attachments	e does not contain ar s	ny values fo	or the Samp	/alue NODI	uent Tradi		n none	of the fol	lowin	g fields <sup>v</sup>	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge	s, Frequ		f Ana	lysis, an	d Sampl	
Submission Note If a parameter row Edit Check Errors No errors. Comments  Attachments  Net_Iron_Effluent_Ca	does not contain ars	ny values fo	or the Samp	/alue NODI	uent Tradi			of the fol	lowing	g fields v	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge		ency of	f Ana	lysis, an	d Sampl	е Туре.
Submission Note If a parameter row Edit Check Errors No errors. Comments  Attachments	concentration_Calcula	ny values fo	or the Samp	/alue NODI	uent Tradi			of the fol	lowin	g fields <sup>v</sup>	will be s	ubmitted	C - No	Discharge		C - 1	No Discharge	s, Frequ	ency of	f Ana	lysis, an	d Sampl	е Туре.
Submission Note If a parameter row Edit Check Errors No errors. Comments  Attachments  Net_Iron_Effluent_C Report Last Save U.S. DEPT OF EN	concentration_Calcula	ny values fo	or the Samp	/alue NODI	uent Tradi			of the fol	lowin		will be s		C - No	Discharge	its, Numb	C-I	No Discharge	s, Frequ	ency of	f Ana	lysis, an	d Sampl	е Туре.
Submission Note If a parameter row Edit Check Errors No errors. Comments  Attachments  Net_Iron_Effluent_C Report Last Save U.S. DEPT OF EN User: willia	concentration_Calcula	ny values fo	or the Samp	/alue NODI	uent Tradi			of the fol	lowin				C - No	Discharge	its, Numb	C-I	No Discharge	s, Frequ	ency of	f Ana	lysis, an	d Sampl	е Туре.

Permit								
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY	Fac	ility:	WEST VALLEY	DEMONSTRATION PROJ	
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AV WASHINGTON, DC 20585	E SW Fac	ility Location:	10282 ROCK SP WEST VALLEY,		
Permitted Feature:	116 Internal Outfall	Discharge:	<b>116-M</b> PSEUDO MON. POINT @F	RANKS CRK				
Report Dates & Status								
<b>Monitoring Period:</b>	From 06/01/17 to 06/30/17	DMR Due Date:	07/28/17	Stat	us:	NetDMR Validate	ed	
Considerations for Fori	m Completion							
IF PSUEDO MONITORIN GENERAL PERMIT EXE		QUIRED DURING THE MONIT	ORING PERIOD, EITHER CHEC	K THENO DISCHARGE BOX O	R ENTER 'NODI A'	IN PLACE OF A ME	ASUREMENT TO INDICAT	ГЕ А
Principal Executive Off	icer			<u>.</u>				
First Name:	Bryan C.	Title:	Director, USDOE-WVDP	Tele	ephone:	717-942-4368		
Last Name:	Bower							
No Data Indicator (NOD	01)							
Form NODI:								
	Monitoring Location Season # Param		antity or Loading	Quality or Conc		# of	Ex. Frequency of Analysis	Sample Type
Code Name		Sample Qualifier 1 Valu	e 1 Qualifier 2 Value 2 Units Qualifier	1 Value 1 Qualifier 2 Value 2	Qualifier 3 Valu	ue 3 Units		
70295 Solids, total dissolved Z	- Instream Monitoring 0	Permit Req.		Req Mon MO AV	G <= 500 DAIL	_Y MX	02/DS - Twice Per Discharge	CA - CALCTD
		Value NODI		C - No Discharge	C - No D	ischarge		
Submission Note								
	not contain any values for the Sai	mple nor Effluent Trading, then	none of the following fields will b	e submitted for that row: Units, N	lumber of Excursion	ns, Frequency of An	alysis, and Sample Type.	
Edit Check Errors								
No errors.								
Comments								
Attachments								
No attachments.								
Report Last Saved By								
U.S. DEPT OF ENERGY								
	ean@chbwv.com		Date	e/Time:	2017-07-26 16:5	50 (Time Zone: -04:	00)	
Name: William	Kaan							
	ean@chbwv.com							

Permit Permittee: U.S. DEPT OF ENERGY Facility: WEST VALLEY DEMONSTRATION PROJ Permit #: NY0000973 Facility Location: Major: Yes Permittee Address: 1000 INDEPENDENCE AVE SW 10282 ROCK SPRINGS ROAD WASHINGTON, DC 20585 WEST VALLEY, NY 14171-9799 Discharge: **Permitted Feature:** 01B 01B-M Internal Outfall MERCURY PRETREATMENT Report Dates & Status **DMR Due Date:** Status: **Monitoring Period:** From 06/01/17 to 06/30/17 07/28/17 **NetDMR Validated Considerations for Form Completion** Principal Executive Officer Title: Telephone: First Name: Bryan C. Director, USDOE-WVDP 717-942-4368 Last Name: Bower No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI # of Ex. Frequency of Analysis Sample Type Parameter Quantity or Loading **Quality or Concentration** Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Code Name Sample Req Mon MO AVG 00056 Flow rate Permit Reg. Req Mon DAILY MX 07 - gal/d CN - CONTIN 1 - Effluent Gross 01/07 - Weekly Value NODI C - No Discharge C - No Discharge Sample 71900 Mercury, total [as Hg] 1 - Effluent Gross 0 Req Mon MO AVG <= 02/BA - Twice Per Batch GR - GRAB Permit Req. 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 2017-07-26 16:50 (Time Zone: -04:00) Date/Time: Name: William Kean E-Mail: william.kean@chbwv.com

Permit																	
Permit #:	NY0000973	P	Permittee:		U.S.	DEPT OF	ENERG	iΥ				Facility:		WEST	VALLEY DEM	IONSTRATION PROJ	
Major:	Yes	F	Permittee /	Address:		INDEPEN SHINGTON			W			Facility I	Location:		ROCK SPRIN VALLEY, NY		
Permitted Feature:	007 External Outfall	С	Discharge:	:	<b>007-</b> OUT	<b>W</b> FALL 007	WET TE	STING	QUARTE	RLY							
Report Dates & Status																	
<b>Monitoring Period:</b>	From 04/01/17 to 06/30	/17	OMR Due I	Date:	08/2	8/17						Status:		NetDN	IR Validated		
Considerations for For	m Completion	,										•					
SEE PERMIT FOOTNO	TES FOR WET TESTING RE	QUIREMENTS															
Principal Executive Of	ficer																
First Name:	Bryan C.	Т	Γitle:		Direc	ctor, USDO	E-WVD	Р				Telepho	ne:	717-94	2-4368		
Last Name:	Bower																
No Data Indicator (NOI	OI)	1															
Form NODI:																	
Pa	rameter	Monitoring Location	on Season #	Param. NODI		C	Quantity o	r Loading	9			Quality	or Concent	ration		# of Ex. Frequency of An	alysis Sample Type
Code	Name					Qualifier 1 Va	alue 1 Qu	alifier 2 V	/alue 2 Units	Qualifier 1	Value 1 Qu	alifier 2 Value	2 Qualifier	3 Value 3	Units		
61425 Toxicity [acute], Cerioda	aphnia dubia	V - See Comments	0		Sample Permit Req.								<=	.3 MAXIMUM	2F - tox acute	01/90 - Quarterly	24 - COMP24
	T				Value NODI									C - No Discharge			
					Sample												
61426 Toxicity [chronic], Cerio	daphnia dubia	V - See Comments	0		Permit Req. Value NODI								<=	1 MAXIMUM C - No Discharge	2G - tox chronic	01/90 - Quarterly	24 - COMP24
					Sample									o No Biodiaige			
61427 Toxicity [acute], Pimeph	ales promelas [Fathead Minnow]	V - See Comments	0		Permit Req.								<=		2F - tox acute	01/90 - Quarterly	24 - COMP24
					Value NODI Sample									C - No Discharge			
61428 Toxicity [chronic], Pime	phales promelas [Fathead Minnow]	V - See Comments	0		Permit Req.								<=	1 MAXIMUM	2G - tox chronic	01/90 - Quarterly	24 - COMP24
					Value NODI									C - No Discharge			
Submission Note																	
If a parameter row does	not contain any values for the	Sample nor Efflu	uent Tradir	ng, then none	e of the follo	wing fields	will be s	submitte	d for that i	ow: Units,	Number of	of Excursion:	s, Frequei	ncy of Analysis,	and Sample T	ype.	
Edit Check Errors																	
No errors.																	
Comments																	
Attachments																	
No attachments.																	
Report Last Saved By																	
U.S. DEPT OF ENERGY	1																
User: william.	kean@chbwv.com							Date/	Time:			2017	7-07-26 1	6:50 (Time Zo	ne: -04:00)		
Name: William	Kean																
E-Mail: william.	kean@chbwv.com																

#### ATTACHMENT

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

OUTFALL 001 = M1 = 
$$\frac{(X1 + X2) V1}{2}$$
 = 0.00 mg/month

X1 = 0.00 mg/L

X2 = 0.00 mg/L

V1 = 0.00 L/month

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

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

X1 = 0.00 mg/L

X2 = 0.00 mg/L

V7 = 0.00 L/month

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

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.

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

Attachment B Storm Water Monitoring Results

## STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 1, OUTFALL S04

Parameter		Results in mg/		Permit No. NY-0000973
Group	Parameter	Results in ing/	L	Compliance Limit
Group	Tarameter	First Flush	Flow-weighted	2 Compilance Emili
		Grab	Composite	
Group A	pH	7.7 S.U.	N.R.	Not Specified in Permit.
Parameters	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	28	27	N.R. = Not Required.
	Total Dissolved Solids (TDS)	340	270	•
	Phosphorus, Total	0.16	0.061	
Group B	Aluminum	1.2	1.4	
Parameters	Iron	1.5	1.5	
	Copper, Total Recoverable (TR)	0.0034	0.0042	
	Lead (TR)	0.0026	0.0013	
	Zinc (TR)	0.014	0.015	1
Group C	Total Nitrogen (as N)	< 0.48	0.48	
Parameters	TKN	0.40	0.35	
	Nitrate Nitrogen (as N)	0.059	0.10	
	Nitrite Nitrogen (as N)	< 0.020	0.029	
	Ammonia Nitrogen (as NH3)	0.035	0.029	
	Cadmium, TR	< 0.000071	< 0.000071	
	Chromium, TR	0.0013	0.0017	
	Hexavalent Chromium, TR	< 0.0050	< 0.0050	
	Selenium, TR	< 0.00044	< 0.00044	1
	Vanadium, TR	< 0.0012	< 0.0012	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	330,000	
	Maximum Flow rate, gallons	4,500	N.R.	
	per minute			
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	6/19/17	6/19/17	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	1260	Rain started at 0145 EDT on 6/19/17 and ended at 2245 EDT on 6/19/17.
	Date and Time of sample	6/19/17	6/19/17	
	collection	1335	1615	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An additional 0.02 inches fell after sampling was completed for 0.41 inches total.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	3	Precipitation of 1.26 inches was recorded on 6/18/17 at 2230 EDT. No flow above base flow upon arrival.

## STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 2, OUTFALL S06

Parameter	Daramatar	Results in mg/	L	Permit No. NY-0000973
Group	Parameter	First Flush Grab	Flow-weighted Composite	Compliance Limit
Group A	pH	7.4 S.U.	N.R.	Not Specified in Permit.
Parameters	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	1.9	< 1.0	Not specified in permit.
	Total Suspended Solids (TSS)	< 1.0	< 2.3	N.R. = Not Required.
	Total Dissolved Solids (TDS)	490	580	1
	Phosphorus, Total	0.021	0.022	†
Group B	Aluminum	< 0.0068	< 0.0068	-
Parameters	Iron	0.094	0.31	-
	Copper, Total Recoverable (TR)	0.00072	0.00077	
	Lead (TR)	< 0.00050	< 0.00050	7
	Zinc (TR)	< 0.0033	< 0.0033	1
Group C	Total Nitrogen (as N)	N.R.	N.R.	
Parameters	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	1
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.013	0.011	
	Alpha BHC	N.R.	N.R.	1
	Settleable Solids	N.R.	N.R.	7
	Sulfide	N.R.	N.R.	1
	Paraquat Dichloride	N.R.	N.R.	7
Flow	Total Flow, gallons	N.R.	10,000	
	Maximum Flow rate, gallons	60	N.R.	
	per minute			
	Method of flow measurement	ISCO Flow Me	eter	
Rainfall	Date(s) of event monitored	06/19/17	06/19/17	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	1260	Rain started at 0145 EDT on 6/19/17 and ended at 2245 EDT on 6/19/17.
	Date and Time of sample	06/19/17	06/19/17	
	collection	1340	1620	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An additional 0.02 inches was recorded after sampling was completed for a storm total of 0.41 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	3	Precipitation of 1.26 inches was recorded on 6/18/17 at 2230 EDT. Outfall was above base flow conditions.

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 3, OUTFALL S09

D	1410mttoring 1 criou			
Parameter			L, Mercury, total	Permit No. NY-0000973
Group	Parameter	in ng/L via me		Compliance Limit
		First Flush	Flow-weighted	
		Grab	Composite	
Group A	рН	8.5 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	1.4	N.R.	15 mg/L
	BOD-5	5.7	2.9	Not specified in permit.
	Total Suspended Solids (TSS)	17	470	N.R. = Not Required.
	Total Dissolved Solids (TDS)	210	210	1
	Phosphorus, Total	0.050	0.81	1
Group B	Aluminum	0.19	12	
Parameters	Iron	0.26	18	
	Copper, Total Recoverable	0.0058	0.029	
	(TR)			
	Lead (TR)	0.00037	0.014	
	Zinc (TR)	0.0091	0.12	
Group C	Total Nitrogen (as N)	1.8	4.4	
Parameters	TKN	1.7	1.7	
	Nitrate Nitrogen (as N)	0.12	2.6	
	Nitrite Nitrogen (as N)	0.023	0.12	
	Ammonia Nitrogen (as NH3)	0.060	0.12	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.		
		· · · · · · · · · · · · · · · · · · ·	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	< 0.0000067	< 0.0000067	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	9.4	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	315,000	
	Maximum Flow rate, gallons	7600	N.R.	
	per minute			
	Method of flow measurement	Staff Gauge	L	
Rainfall	Date(s) of event monitored	6/19/17	6/19/17	
Event and	Duration of storm event, in	N.R.	1260	Rain started at 0145 EDT on
Monitoring	minutes		1200	6/19/17 and ended at 2245
Summary				EDT on 6/19/17.
,	Date and Time of sample	6/19/17	6/19/17	
	collection	1330	1615	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling	N.R.	0.39	An additional 0.02 inches
	event, in inches	IV.IX.	0.39	was recorded after sampling
	evont, in menes			ended for a storm total of
				0.41 inches.
	Number of house between	ND	3	
	Number of hours between event	N.R.	د ا	Precipitation of 1.26 inches
	sampled and previous			was recorded on 6/18/17 at
	measurable (> 0.1 inch) event			2230 EDT. Slight flow
				above base flow upon
				arrival.

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 4, OUTFALL S34/DUPLICATE

Parameter	Parameter	Results in mg/L	•	Permit No. NY-0000973 Compliance Limit
Group	1 arameter	First Flush Grab	Flow-weighted Composite	
Group A	pH	7.7 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	< 1.4 / < 1.6	N.R.	15 mg/L
1 didiffictors	BOD-5	< 2.0 / < 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	78 / 73	80	N.R. = Nor Required.
	Total Dissolved Solids (TDS)	270 / 260	240	7
	Phosphorus, Total	0.13 / 0.13	0.14	
Group B	Aluminum	2.6 / 2.7	1.5	
Parameters	Iron	3.4 / 3.4	1.6	
T drameters	Copper, Total Recoverable (TR)	0.0043 / 0.0043	0.0046	
	Lead (TR)	0.0025 / 0.0025	0.0028	
	Zinc (TR)	0.053 / 0.054	0.043	
Group C	Total Nitrogen (as N)	N.R.	N.R.	
Parameters	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.021 / 0.015	0.029	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	55,000	
	Maximum Flow rate, gallons per minute	1,200	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	6/26/17	6/26/17	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	375	Rain started at 0945 EDT on 6/26/17 and ended at 1600 EDT on 6/26/17.
•	Date and Time of sample	6/26/17	6/26/17	
	collection	1000	1245	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.30	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	18	Precipitation of 0.20 inches was recorded on 6/25/17 at 1545 EDT. Outfall was at base flow conditions.

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 5, OUTFALL S28

Parameter	Trouttoring 1 criou			Permit No. NY-0000973
Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Compliance Limit
Group		First Flush Flow-weighted		
		Grab	Composite	
Group A	pH	7.7 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	1.5	N.R.	15 mg/L
	BOD-5	< 2.0	< 3.0	Not specified in permit.
	Total Suspended Solids (TSS)	200	260	N.R. = Not required.
	Total Dissolved Solids (TDS)	450	230	-
	Phosphorus, Total	0.37	0.41	_
Group B	Aluminum	12	13	
Parameters	Iron	13	14	
	Copper, Total Recoverable (TR)	0.018	0.019	
	Lead (TR)	0.012	0.013	
	Zinc (TR)	0.076	0.082	
Group C	Total Nitrogen (as N)	1.2	0.96	
Parameters	TKN	1.0	0.87	
	Nitrate Nitrogen (as N)	0.19	0.074	
	Nitrite Nitrogen (as N)	0.020	0.020	
	Ammonia Nitrogen (as NH3)	0.045	0.034	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.0085	0.0090	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.3	0.7	
	Sulfide	< 0.050	< 0.050	
	Paraquat Dichloride	N. R.	N. R.	
Flow	Total Flow, gallons	N.R.	260,000	
	Maximum Flow rate, gallons per minute	3,200	N.R.	
n 1 0 11	Method of flow measurement	Staff Gauge	T - 12 - 2 - 2 - 2	
Rainfall	Date(s) of event monitored	5/25/17	5/25/17	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	525	Rain started at 0245 EDT or 5/25/17 and ended at 1130 EDT on 5/25/17.
	Date and Time of sample	5/25/17	5/25/17	
	collection	0750	1030	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.68	An additional 0.07 inches was recorded after sampling ended for a storm total of 0.75 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	78	Precipitation of 0.21 inches was recorded on 5/21/17 at 2115 EDT. No flow at outfall upon arrival.

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 6, OUTFALL S41

Parameter	Tromtoring 1 crious	Results in mg/L, mL/L for		Permit No. NY-0000973	
Group	Parameter	Settleable Solids		Compliance Limit	
р	Taraniotoi	First Flush	Flow-weighted	- Compilation Emilia	
		Grab	Composite		
Group A	pH	7.8 S.U.	N.R.	Not specified in permit.	
Parameters	Oil and Grease	1.9	N.R.	15 mg/L	
	BOD-5	2.9	< 2.0	Not specified in permit.	
	Total Suspended Solids (TSS)	300	670	N.R. = Not required.	
	Total Dissolved Solids (TDS)	730	390	1	
	Phosphorus, Total	0.42	1.1	1	
Group B	Aluminum	13	29		
Parameters	Iron	14	32		
	Copper, Total Recoverable (TR)	0.013	0.026		
	Lead (TR)	0.0057	0.011		
	Zinc (TR)	0.18	0.083	1	
Group C	Total Nitrogen (as N)	1.4	< 1.5	1	
Parameters	TKN	1.3	1.5	-	
	Nitrate Nitrogen (as N)	0.044	< 0.020	<b>1</b>	
	Nitrite Nitrogen (as N)	0.025	0.027		
	Ammonia Nitrogen (as NH3)	0.050	0.038		
	Cadmium, TR	N.R.	N.R.		
	Chromium, TR	N.R.	N.R.	-	
	Hexavalent Chromium, TR	N.R.	N.R.		
	Selenium, TR	N.R.	N.R.		
	Vanadium, TR	0.011	0.022		
	Surfactant (as LAS)	< 0.013	< 0.013 "R" *		
	Alpha BHC	N.R.	N.R.	* Surfactant was flagge	
	Settleable Solids	2.2	1.1	"R" unreliable in the data	
	Sulfide	< 0.050	< 0.050	validation process.	
	Paraquat Dichloride	N.R.	N.R.	·	
Flow	Total Flow, gallons	N.R.	20,000		
	Maximum Flow rate, gallons	220	N.R.		
	per minute				
	Method of flow measurement	Staff Gauge			
Rainfall	Date(s) of event monitored	5/25/17	5/25/17		
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	525	Rain started at 0245 EDT on 5/25/17 and ended at 1130 EDT on 5/25/17.	
	Date and Time of sample	5/25/17	5/25/17		
	collection	0820	1100		
	Sampling Duration (Minutes)	Instantaneous	180		
	Total rainfall during sampling event, in inches	N.R.	0.72	An additional 0.03 inches was recorded after sampling ended for a storm total of 0.75 inches.	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	78	Precipitation of 0.21 inches was recorded on 5/21/17 at 2115 EDT. No flow at outfall upon arrival.	

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 7, OUTFALL S20

Parameter		Results in mg/L		Permit No. NY-0000973	
Group	Parameter	First Flush	Flow-weighted	Compliance Limit	
		Grab	Composite		
Group A	pH	7.7 S.U.	N.R.	Not specified in permit.	
Parameters	Oil and Grease	< 1.4	N.R.	15 mg/L	
	BOD-5	16	3.9	Not specified in permit.	
	Total Suspended Solids (TSS)	480	39	N.R. = Not required.	
	Total Dissolved Solids (TDS)	220	30	1	
	Phosphorus, Total	0.56	0.068		
Group B	Aluminum	11	1.2	<b>-</b>	
Parameters	Iron	14	1.2		
	Copper, Total Recoverable (TR)	0.015	0.0023		
	Lead (TR)	0.0080	0.00096		
	Zinc (TR)	0.078	0.0096	1	
Group C	Total Nitrogen (as N)	8.2	2.1	1	
Parameters	TKN	4.1	1.2	_	
	Nitrate Nitrogen (as N)	4.0	0.85	_	
	Nitrite Nitrogen (as N)	0.11	0.041		
	Ammonia Nitrogen (as NH3)	0.77	0.29	_	
	Cadmium, TR	N.R.	N.R.	_	
	Chromium, TR	N.R.	N.R.	7	
	Hexavalent Chromium, TR	N.R.	N.R.		
	Selenium, TR	N.R.	N.R.		
	Vanadium, TR	N.R.	N.R.		
	Surfactant (as LAS)	0.023	0.024		
	Alpha BHC	N.R.	N.R.	7	
	Settleable Solids	N.R.	N.R.		
	Sulfide	< 0.050	< 0.050		
Flow	Total Flow, gallons	N.R.	83,000		
	Maximum Flow rate, gallons per minute	710	N.R.		
	Method of flow measurement	Staff Gauge			
Rainfall	Date(s) of event monitored	6/15/17	6/15/17		
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	120	Rain started at 1630 EDT on 6/15/17 and ended at 1830 EDT on 6/15/17.	
	Date and Time of sample	6/15/17	6/15/17		
	collection	1700	1950		
	Sampling Duration (Minutes)	Instantaneous	180		
	Total rainfall during event, in inches	N.R.	0.19		
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	212	Precipitation of 0.62 inches was recorded on 6/6/17 at 2015 EDT. Base flow at outfall upon arrival.	

# STORM WATER DISCHARGE MONITORING DATA FOR OUTFALL GROUP 8, OUTFALL S27

Parameter		Results, in mg/L		Permit No. NY-0000973
Group	Parameter	First Flush Grab	Flow-weighted Composite	_ Compliance Limit
Group A	pH	7.5 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	2.0	N.R.	15 mg/L
i didineters	BOD-5	< 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	95	120	N.R. = Not Required.
	Total Dissolved Solids (TDS)	220	160	- N.K Not Required.
	Phosphorus, Total	0.15	0.22	_
Group B	Aluminum	6.9	6.4	-
Parameters	Iron	5.7	5.3	-
1 drameters	Copper, Total Recoverable (TR)	0.0065	0.0066	
	Lead (TR)	0.0056	0.0062	-
	Zinc (TR)	0.025	0.028	
Group C	Total Nitrogen (as N)	1.1	0.84	7
Parameters	TKN	0.96	0.76	-
	Nitrate Nitrogen (as N)	0.12	0.052	-
	Nitrite Nitrogen (as N)	0.027	0.026	_
	Ammonia Nitrogen (as NH3)	0.059	0.041	-
	Cadmium, TR	N.R.	N.R.	_
	Chromium, TR	N.R.	N.R.	-
	Hexavalent Chromium, TR	N.R.	N.R.	-
	Selenium, TR	N.R.	N.R.	-
	Vanadium, TR	N.R.	N.R.	_
	Surfactant (as LAS)	0.020	0.014	
	Alpha BHC	N.R.	N.R.	-
	Settleable Solids	N.R.	N.R.	-
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	-
Flow	Total Flow, gallons	N.R.	32,000	
1 10 W	Maximum Flow rate, gallons per minute	260	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	5/25/17	5/25/17	
Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	525	Rain started at 0245 EDT on 5/25/17 and ended at 1130 EDT on 5/25/17.
	Date and Time of sample	5/25/17	5/25/17	
	collection	0755	1040	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.70	An additional 0.05 inches was recorded after sampling ended for a storm total of 0.75 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	78	Precipitation of 0.21 inches was recorded on 5/21/17 at 2115 EDT. There was no flow at outfall upon arrival.

Attachment C WET Testing Summary Pages

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

Facility Name: West Val	ley Demonstration Project	Test Start Date:	4/11/17				
NDDES Permit Number	NY0000973	Pipe Number:	001				
NPDES Permit Number: NY0000973 Pipe Number: 001							
The same of the same	Test Species	Sample Type	Sample Method				
AND THE PERSON OF THE PERSON O	Fathead Minnow	Prechlorinated	Grab				
-		_ Dechlorinated	<u>X</u> Composite				
OW	XCeriodaphnia	Chlorine Spiked in Lab	_ Flowthru				
and .	Daphnia Pulex	_ Chlorinated on site	Other				
(chronic reporting	Mysid Shrimp		Offici				
	Sheepshead	<u>X</u> Unchlorinated					
_ 24hr screening	Menidia						
	Sea Urchin						
	Champia	TRC: <u>0.015</u> mg/L	•				
	Selenastrum						
Dilution Water							
receiving water colle	ected at a point upstream o	f or away from the discharge	e, free from toxicity				
or other sources	of contamination: (Receiv	ing water name: Erdman Br	<u>ook</u> )				
alternate curface water	r of known quality and a h	ardness, etc. to generally ref	lect the				
ahernatoristics of	The receiving water (Sur	face water name:	)				
characteristics of	and using oither Millingre	Mill-Q or equivalent deioniz	zed water and				
X synthetic water prepa	red using entire wimpore	ar combined with mineral w	ater				
reagent grade en	iemicals; or delonized wat	er combined with mineral w					
or artificial sea salts n	nixed with deionized wate	Γ;					
_ deionized water and h	sypersaline brine; or						
Effluent sampling date (	s): $\frac{4/9-10/17}{4}$	/10-11/17					
Effluent concentrations	tested (in%): 0 6.25 1	<u>2.5                                    </u>					
* Permit limit co	oncentration: $TUa \le 0.3$ .	TUc ≤ 1.0					
Was effluent salinity adj	insted? No						
77 d3 0171d0111 5d1111115 ==5							
Actual effluent concentr	ations tested after salinity	adjustment (%): 0 6.25 13	2.5 <u>25 50 100</u>				
Actual Cilident Concenti	attorio testea arte: summing						
Deference Toyland test	date: 4/3/17						
Reference Toxicant test date: 4/3/17							
	Test Acceptab	illity Criteria					
	Test Acceptato	oney Circus					
	1000/	Mean Control Reproduction:	31.3 vouno/female				
Mean Control Survival:	Throughout the first and to a section of the sectio	Mean Diluent Reproduction:	22.7 young/female				
Mean Diluent Survival:	100%	Mean Diluent Reproduction.	32.7 young temate				
		5 1.					
<u>Limits</u>		Results					
LC50 <u>N/A</u>	LC50	>100%					
	Upper V	alue ±∞	amond the designation of the second s				
	Lower V	alue 100%					
	Data Ana	alysis					
	Method 1	Used Graphical					
TUa 0.3	TUa	0.3					
A-NOEC N/A	A-NOEC	National Advantage of the Control of					
***************************************	C-NOEC		graphic and the second of the				
C-NOEC N/A	LOEC	>100%	gywigiaudigwiddiathia'r				
one +		1.0	alama de antidisco del Producto				
TUc 1.0	TUc	>100%	uggigrigue-weeks				
IC25 <u>N/A</u>	IC25	Company of the second s	CONTRACTOR OF SPECIAL PROPERTY.				
IC50 N/A	IC50	>100%	egynalophyddallar r				

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

Facility Name: West Va	alley Demonstration Project	t Test Start Date:	4/11/17				
NIPIDES Permit Number	r: NY0000973		001				
NPDES Permit Number: NY0000973 Pipe Number: 001							
The set The second	Test Species	Sample Type	Sample Method				
Test Type	X Fathead Minnow	Prechlorinated					
_ Acute		_ Dechlorinated	X Composite				
Chronic	Ceriodaphnia	Chloring Spiled in Lab	Flowthru				
X Modified	_ Daphnia Pulex	Chlorine Spiked in Lab	Other				
(chronic reporting	Mysid Shrimp	Chlorinated on site	_ Ouici				
acute values)	Sheepshead	X Unchlorinated					
_ 24hr screening	_ Menidia						
	Sea Urchin						
	Champia	TRC: <u>0.015</u> mg/L					
	Selenastrum						
Dilution Water	<del></del>						
receiving water col	lected at a point upstream	of or away from the discharge	e, free from toxicity				
or other source	s of contamination; (Rece	iving water name: Erdman Br	<u>'00K</u> )				
alternate surface wat	er of known quality and a	hardness, etc. to generally ref	flect the				
characteristics	of the receiving water: (Si	urface water name:	)				
V monthatic poster prep	ared using either Millinor	e Mill-Q or equivalent deioni	zed water and				
A Symmetric water prop	hamicale: or deionized w	ater combined with mineral w	ater:				
reagent grade c	mived with deionized wat	pre	<b>,</b>				
or artificial sea saits	mixed with deionized wat	ici,					
_ deionized water and	nypersame orme, or						
	4/0.10/17	4/10 11/17					
Effluent sampling date	(s): $\frac{4/9-10/17}{}$	4/10-11/17					
Effluent concentrations	s tested (in%): $0 6.25$	12.5 25 50 100					
* Permit limit	concentration: <u>TUa ≤ 0.</u>	3. 1Uc ≤ 1.0					
Was effluent salinity ac	djusted? <u>No</u>						
Actual effluent concen	trations tested after salinit	y adjustment (%): <u>0</u> <u>6.25</u> <u>1</u>	<u>2.5                                    </u>				
Reference Toxicant tes	st date: 4/3/17						
	Test Accepta	bility Criteria					
Mean Control Survival	l: 92.5%	Mean Control Weight: 0.53	<u>0 mg</u>				
Mean Diluent Survival	100%	Mean Diluent Weight: 0.61	<u>6 mg</u>				
	The state of the s						
Limits		<u>Results</u>					
LC50 N/A	LC50	>100%					
DCJV	Upper '	Committee of the Commit	Access of the Control				
	Lower	The state of the s	<sub>(All</sub> (feminand) and				
	Data A		Andrew College College				
	Method						
TUa <u>0.3</u>	TUa	0.3					
A-NOEC N/A	A-NOE		and a good and a suit of the				
C-NOEC N/A	C-NOE		autra sommonen				
	LOEC	100%	makkati maka p <del>amanan</del>				
TUc <u>1.0</u>	TUe	2.0	annual review by Mr				
IC25 N/A	IC25	73.2%	andropysopopular announ				
IC50 N/A	IC50	>100%	requirements des trapp				
	0.0 Page 14 (1.0 Page 14 (1.0 Page 14						