CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

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

AC-PRES
WD:2025:0387
May 20, 2025

ATTENTION: Jennifer Dundas

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period April 1 through April 30, 2025

Dear Ms. Splitt

This letter is submitted for the Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period April 1 through April 30, 2025, 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).

We are also including within this DMR the Whole Effluent Toxicity (WET) results on samples collected from outfall 001 during our April 2025 discharge.

If you have any questions, please contact William Kean at (716) 942-4865 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

JASON CASPER (Affiliate)
Digitally signed by JASON CASPER (Affiliate)
Date: 2025.05.20 14:45:35 -04'00'

Jason L. Casper
President & General Manager

JLC:WNK:mlv

Attachment:
A) SPDES DMR for April 1, 2025 through April 30, 2025
B) Whole Effluent Toxicity (WET) Final Report
C) Email Confirmation from NYSDEC

cc:
B. C. Bower, DOE-WVDP
J. M. Dundas, DOE-WVDP
J. A. Miller, DOE-WVDP
DOE Support Staff, DOE-WVDP
A. V. Carr, CHBWV
S. A. Cherry, CHBWV
B. D. Gertz, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
E. A. Lowes, CHBWV
J. K. Mantione, CHBWV
D. M. Martinet, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
R. E. Steiner, CHBWV
M. L. Varner, CHBWV
Records, CHBWV
CHBWV OITS #2430388
Wet@dec.ny.gov

Attachment A
SPDES DMR for April 1 – 30, 2025

ATTACHMENT A

SPDES DISCHARGE MONITORING REPORT – APRIL 1 THROUGH APRIL 30, 2025
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001 = $M1 = \frac{(X1 + X2)\ V1}{2}$ = 749982.33 mg/month

X1 = 0.0785 mg/L

X2 = 0.0891 mg/L

V1 = 8949669.80 L/month

OUTFALL 007 = $M7 = \frac{(X1 + X2)\ V7}{2}$ = 0.00 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.

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

X1 = 0.00 mg/L

X2 = 0.00 mg/L

X3 = 0.00 mg/L

X4 = 0.00 mg/L

VRW = 0.00 L/month

Note: Raw water from the reservoir system is no longer used for process water since the site installed two groundwater wells. This eliminated the need to collect raw water samples on a weekly basis and altered the iron discharge concentration equation as the mass of iron entering the system is no longer necessary.

IRON DISCHARGE CONCENTRATION = $\frac{M1 + M7 - MRW}{V1 + V7}$ = 0.084 mg/L

ATTACHMENT A (Cont'd)

SPDES DISCHARGE MONITORING REPORT – APRIL 1 THROUGH APRIL 30, 2025
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: April 15, 2025

C4 = ((Q1)(C1)+(Q2)(C2)+(Q3)(C3))/Q4

= ((0.265 MGD)(627 mg/L)+(0.364 MGD)(188 mg/L)+(0.403 MGD)(94 mg/L))/(1.032 MGD)

= 264 mg/L

Date: April 21, 2025

C4 = ((Q1)(C1)+(Q2)(C2)+(Q3)(C3))/Q4

= ((0.265 MGD)(655 mg/L)+(0.526 MGD)(208 mg/L)+(0.403 MGD)(99 mg/L))/(1.194 MGD)

= 270 mg/L

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

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

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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:	001 External Outfall	**Discharge:**	**001-M** OUTFALL 001 MONTHLY PROC WW, GW, STORM		

Report Dates & Status

Monitoring Period:	**From 04/01/25 to 04/30/25**	**DMR Due Date:**	**05/28/25**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan	**Title:**	Director-WVDP-DOE	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00154	**Sulfate [as S]**	1 - Effluent Gross	0	--	Sample								=	37.0	=	37.0	19 - mg/L	0	01/BA - Once Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite
					Value NODI															
00181	**Oxygen demand, ultimate**	1 - Effluent Gross	0	--	Sample								=	5.01	=	5.46	19 - mg/L	0	02/BA - Twice Per Batch	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	CA - Calculated
					Value NODI															
00300	**Oxygen, dissolved [DO]**	1 - Effluent Gross	0	--	Sample						=	7.2			=	9.1	19 - mg/L	0	02/BA - Twice Per Batch	GR - Grab
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L		02/BA - Twice Per Batch	GR - Grab
					Value NODI															
00310	**BOD, 5-day, 20 deg. C**	1 - Effluent Gross	0	--	Sample								=	1.9	=	2.2	19 - mg/L	0	02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - 24 Hour Composite
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	8.0			=	8.0	12 - SU	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		01/BA - Once Per Batch	GR - Grab
					Value NODI															
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample								<	5.2	=	6.4	19 - mg/L	0	02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - 24 Hour Composite
					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		02/BA - Twice Per Batch	GR - Grab
					Value NODI															
00556	**Oil & Grease**	1 - Effluent Gross	0	--	Sample								=	7.8	=	7.8	19 - mg/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					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 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite
					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 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite

					Value NODI																
00625	**Nitrogen, Kjeldahl, total [as N]**	1 - Effluent Gross	0	--	Sample								=	0.47	=	0.65	19 - mg/L	0	02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - 24 Hour Composite
					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 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	0.4 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite
					Value NODI																
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								=	0.00076	=	0.00076	19 - mg/L	0	01/BA - Once Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG	<=	0.15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite
					Value NODI																
00979	**Cobalt, total recoverable**	1 - Effluent Gross	0	--	Sample								<	0.0006	<	0.0006	19 - mg/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					Value NODI																
00981	**Selenium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	0.0004	<	0.0004	19 - mg/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.004 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					Value NODI																
01045	**Iron, total [as Fe]**	1 - Effluent Gross	0	--	Sample								=	0.0838	=	0.0891	19 - mg/L	0	02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - 24 Hour Composite
					Value NODI																
01105	**Aluminum, total [as Al]**	1 - Effluent Gross	0	--	Sample								<	0.088	<	0.088	19 - mg/L	0	01/BA - Once Per Batch	24 - 24 Hour Composite
					Permit Req.								<=	2.0 MO AVG	<=	4.0 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - 24 Hour Composite
					Value NODI																
01128	**Vanadium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	0.0015	<	0.0015	19 - mg/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					Value NODI																
34726	**Nitrogen, ammonia, total [as NH3]**	1 - Effluent Gross	0	--	Sample								<	0.012	=	0.014	19 - mg/L	0	02/BA - Twice Per Batch	24 - 24 Hour Composite
					Permit Req.								<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - 24 Hour Composite
					Value NODI																
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	0	--	Sample	=	0.265	=	0.321	03 - MGD									02/BA - Twice Per Batch	CN - Continuous
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									02/BA - Twice Per Batch	CN - Continuous
					Value NODI																
50060	**Chlorine, total residual**	1 - Effluent Gross	0	--	Sample								=	0.03	=	0.03	19 - mg/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					Value NODI																
70295	**Solids, total dissolved**	1 - Effluent Gross	0	--	Sample								=	641.0	=	655.0	19 - mg/L	0	02/BA - Twice Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	GR - Grab
					Value NODI																
71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample								=	1.46	=	1.46	3M - ng/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.								<=	50.0 MO AVG		Req Mon DAILY MX	3M - ng/L		01/BA - Once Per Batch	GR - Grab
					Value NODI																
81646	**Surfactants [linear alkylate sulfonate]**	1 - Effluent Gross	0	--	Sample								=	0.01	=	0.01	19 - mg/L	0	01/BA - Once Per Batch	GR - Grab
					Permit Req.									Req Mon MO AVG	<=	0.04 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - Grab
					Value NODI																

Submission Note

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

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. 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 CHBWV Environmental Services is 0.02 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:	2025-05-20 12:46 (Time Zone: -04:00)

Report Last Signed By	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-05-20 13:16 (Time Zone: -04:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

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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:	001 External Outfall	**Discharge:**	**001-W** OUTFALL 001 WET TESTING QUARTERLY		

Report Dates & Status

Monitoring Period:	**From 04/01/25 to 06/30/25**	**DMR Due Date:**	**08/28/25**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

First Name:	Bryan	**Title:**	Director-WVDP-DOE	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Quality or Concentration Units	# of Ex.	Frequency of Analysis	Sample Type
61425	**Toxicity [acute], Ceriodaphnia dubia**	V - See Comments	0	--	Sample										=	0.3	2F - tox acute		01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute	0	01/90 - Quarterly	24 - 24 Hour Composite
					Value NODI															
61426	**Toxicity [chronic], Ceriodaphnia dubia**	V - See Comments	0	--	Sample										=	1.0	2G - tox chronic		01/90 - Quarterly	24 - 24 Hour Composite
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic	0	01/90 - Quarterly	24 - 24 Hour Composite
					Value NODI															
61427	**Toxicity [acute], Pimephales promelas [Fathead Minnow]**	V - See Comments	0	--	Sample															
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - 24 Hour Composite
					Value NODI											9 - Conditional Monitoring - Not Required This Period				
61428	**Toxicity [chronic], Pimephales promelas [Fathead Minnow]**	V - See Comments	0	--	Sample															
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - 24 Hour Composite
					Value NODI											9 - Conditional Monitoring - Not Required This Period				

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
WVDP_April_2025_Whole_Effluent_Toxicty_Test_Final_Report.pdf	pdf	2555798.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2025-05-20 12:51 (Time Zone: -04:00)

Report Last Signed By	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-05-20 13:16 (Time Zone: -04:00)

DMR Copy of Record

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Permit

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Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	007 External Outfall	**Discharge:**	**007-M** SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER		

Report Dates & Status

Monitoring Period:	**From 04/01/25 to 04/30/25**	**DMR Due Date:**	**05/28/25**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan	**Title:**	Director-WVDP-DOE	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00181	**Oxygen demand, ultimate**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L		01/30 - Monthly	CA - Calculated
					Value NODI									C - No Discharge		C - No Discharge				
00300	**Oxygen, dissolved [DO]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI							C - No Discharge				C - No Discharge				
00310	**BOD, 5-day, 20 deg. C**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - 24 Hour Composite
					Value NODI									C - No Discharge		C - No Discharge				
00400	**pH**	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		02/30 - Twice Per Month	GR - Grab
					Value NODI							C - No Discharge				C - No Discharge				
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - 24 Hour Composite
					Value NODI									C - No Discharge		C - No Discharge				
00545	**Solids, settleable**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
00556	**Oil & Grease**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
00615	**Nitrogen, nitrite total [as N]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/30 - Monthly	24 - 24 Hour Composite
					Value NODI									C - No Discharge		C - No Discharge				
00625	**Nitrogen, Kjeldahl, total [as N]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/30 - Monthly	24 - 24 Hour Composite
					Value NODI									C - No Discharge		C - No Discharge				
01045	**Iron, total [as Fe]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - 24 Hour Composite

					Value NODI									C - No Discharge		C - No Discharge				
34726	**Nitrogen, ammonia, total [as NH3]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - 24 Hour Composite
					Value NODI									C - No Discharge		C - No Discharge				
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	0	--	Sample															
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									01/30 - Monthly	CN - Continuous
					Value NODI		C - No Discharge		C - No Discharge											
50060	**Chlorine, total residual**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/30 - Monthly	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
70295	**Solids, total dissolved**	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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		01/30 - Monthly	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:	2025-05-20 12:46 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-05-20 13:16 (Time Zone: -04:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

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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 04/01/25 to 04/30/25**	**DMR Due Date:**	**05/28/25**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan	**Title:**	Director-WVDP-DOE	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
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 - Continuous
					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:	2025-05-20 12:46 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-05-20 13:16 (Time Zone: -04:00)

DMR Copy of Record

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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 04/01/25 to 04/30/25**	**DMR Due Date:**	**05/28/25**	**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	**Title:**	Director-WVDP-DOE	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
70295	**Solids, total dissolved**	Z - Instream Monitoring	0	--	Sample								=	267.0	=	270.0	19 - mg/L	0	02/DS - Twice Per Discharge	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	CA - Calculated
					Value NODI															

Submission Note

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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) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. 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 CHBWV Environmental Services is 0.02 mg/L.

Attachments

Name	Type	Size
WVDP_April_TDS_Calculation.pdf	pdf	498763.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2025-05-20 12:50 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-05-20 13:16 (Time Zone: -04:00)

DMR Copy of Record

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Permit

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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 04/01/25 to 04/30/25**	**DMR Due Date:**	**05/28/25**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan	**Title:**	Director-WVDP-DOE	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	**Iron, total [as Fe]**	2 - Effluent Net	0	--	Sample								=	0.084	=	0.084	19 - mg/L	0	01/30 - Monthly	CA - Calculated
					Permit Req.									Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L		01/30 - Monthly	CA - Calculated
					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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Attachments

Name	Type	Size
WVDP_April_Net_Iron_Calculation.pdf	pdf	332273.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
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E-Mail:	william.kean@chbwv.com
Date/Time:	2025-05-20 12:50 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2025-05-20 13:16 (Time Zone: -04:00)

Attachment B
Whole Effluent Toxicity (WET) Final Report

eurofins | Environment Testing

1 2 3 4 5

ANALYTICAL REPORT

PREPARED FOR

Attn: Chester Wrotniak
CH2M Hill BWXT West Valley (CHBWV)
10282 Rock Springs Road
MS-ACC-22
West Valley, New York 14171-9799

Generated 5/12/2025 5:24:25 PM

JOB DESCRIPTION

SPDES
1517

JOB NUMBER

480-229353-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
5/12/2025 5:24:25 PM

Authorized for release by
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Case Narrative

Client: CH2M Hill BWXT West Valley (CHBWV) Job ID: 480-229353-1
Project: SPDES

Job ID: 480-229353-1 Eurofins Buffalo

Job Narrative
480-229353-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/18/2025 7:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Subcontract Work
Method Whole Effluent Toxicity (WET) Testing - C. Dubia: This method was subcontracted to New England Bioassay a division of GZA. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Sample Summary

Client: CH2M Hill BWXT West Valley (CHBWV)
Project/Site: SPDES

Job ID: 480-229353-1
SDG: 1517

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229353-1	2025-02908 WNSP001	Water	04/17/25 08:30	04/18/25 07:56

New England Bioassay Inc.
Aquatic Toxicity Testing Services
77 Batson Drive
Manchester, CT 06042
(860)-643-9560
www.nebio.com

CHRONIC AQUATIC TOXICITY TEST REPORT

Permitee: West Valley Demonstration Project NPDES # NY0000973
Report submitted to: Test America
10 Hazelwood Dr, Amherst NY
Sample ID: Outfall 001
Test Month/Year: April 2025
NEB Proj # 44240

Test Type / Method: *Ceriodaphnia dubia* Modified Chronic Static-Renewal Freshwater Test Method 1002.0; EPA 821-R-02-013

Effluent Sample Dates: #1 4/16-17/25 #2 4/20-21/25

Test Start Date: 4/18/25

Results Summary

Your results were as follows:

Passed all permit limits

Acute Test Results

Species	LC50	TUa	Permit Limit	Pass / Fail
Ceriodaphnia dubia	>100%	0.3	TUa ≤ 0.3	Pass

Chronic Test Results

Species	C-NOEC	TUc	IC25	Permit Limit	Pass/Fail
Ceriodaphnia dubia	100%	1.0	>100%	TUc ≤ 1.0	1.0

Data Qualifiers affecting this test:

Certifications & Approvals: NH ELAP (2071), NJ DEP (CT405), NYSDOH (12157)

Test Report Certification

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Start Date: 4/18/25

Whole Effluent Toxicity Test Report Certification (Permittee)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on: _____ (Date)

_____ Authorized Signature

_____ Print or Type Name and Title

_____ Print or Type the Permittee's Name

NY0000973 Print or Type the NPDES Permit Number

Whole Effluent Toxicity Test Report Certification (Bioassay Laboratory)

The results reported relate only to the samples submitted as received

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on: 5/9/25 (Date)

Kimberly Wills

Kimberly Wills
Laboratory Director
New England Bioassay Inc.

General Test Conditions

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Start Date: 4/18/25

Sample Collection Information

Effluent #1 Dates/Times: 4/16-17/25 @ 0830 - 0830 Receiving Water #1 Date/Time: 4/17/25 @ 0800

Effluent #2 Dates/Times: 4/20-21/25 @ 0900 - 0900 Receiving Water #2 Date/Time: 4/21/25 @ 0830

Were a minimum of three samples collected? Yes ☐ No ☑ *(see note below)

Were samples used within the first 36 hours of collection? Yes ☑ No ☐ * (see note below)

* sample collection note: NYSDEC has approved West Valley Demonstration Project to use only two sets of samples for their chronic testing due to the batch nature of their discharge.

Test Conditions

Permittee's Receiving Water: Erdman Brook

- Dilution water: Receiving water collected at a point immediately upstream of or away from the discharge
- Control water: Laboratory synthetic moderately hard water (hardness 80 - 100 mg/L CaCO3)

Effluent concentrations tested: 0%, 6.25%, 12.5%, 25%, 50%, 100%

Was effluent salinity adjusted? No ☑ Yes ☐ with Instant Ocean sea salts to N/A ppt

Dechlorination procedures: Chlorine is measured using 4500 CL-G DPD Colorimetric Method

- Dechlorination was not required

TRC results and further information about aeration of samples can be found attached in "sample receipt chemistry"

Reference Toxicant Data

Ceriodaphnia dubia

Date:	4/1/25
Toxicant:	Sodium chloride
Dilution Water:	NEB CTRMH
Organism Source:	NEB
Reproduction IC25:	0.85 g/L
Results within range	Yes ☑ No ☐

Ceriodaphnia dubia Test Results

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Dates: 4/18/25 - 4/25/25

Test Acceptability Criteria

Lab Control Survival:	100	%	Mean Lab Control Reproduction:	36.6	young per female
Diluent Control Survival:	100	%	Mean Diluent Control Reproduction:	40.9	young per female
Thiosulfate Control Survival:	N/A	%	Mean Thiosulfate Control Reproduction:	N/A	young per female

Presence of an asterisk (*) indicates EPA criteria was not met, see explanation in the "Results Discussion" section at the bottom of the following page.

Test Results

		Permit Limit	Test Result	Pass/Fail Status
Acute Data	48 hr LC50		>100%	
	48 hr NOEC		100%	
	TUa	≤ 0.3	0.3	Pass
Chronic Data	Chronic LC50		>100%	
	Survival C-NOEC		100%	
	Survival C-LOEC		>100%	
	Reproduction C-NOEC		100%	
	Reproduction C-LOEC		>100%	
	Reproduction IC25		>100%	
	Reproduction IC50		>100%	
	Reportable C-NOEC		100%	
	Reportable C-LOEC		>100%	
	MATC		>100%	
	TUc	≤ 1.0	1.0	Pass

Presence of an asterisk (*) indicates qualified data, see explanation in the "Results Discussion" section at the bottom of the following page.

Test Variability

Reproduction PMSD: 22.9% Upper & Lower EPA bounds: 13 - 47% ☐ Low ☑ Within bounds ☐ High

☐ PMSD exceeds upper bounds. Test results are highly variable and may not be sensitive enough to determine the presence of toxicity at the permit limit concentration (PLC)

☑ The PMSD falls within the upper (47%) and lower (13%) bounds. Results are reportable.

☐ PMSD falls below the lower bound test variability criterion. The test is very sensitive. The relative percent difference (RPD) between the control and each treatment was calculated and compared to the lower bound.

- ☐ The RPD values for all concentrations fall below the lower bound. Any differences observed in this test are considered statistically insignificant.
- ☐ Some of the concentrations that were flagged as statistically significant have RPD values that fall below the lower bound. Any differences observed in these concentrations will not be considered statistically significantly decreased from the control.
- ☐ No statistically significant reductions were observed in this test.

Ceriodaphnia dubia Test Results

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Dates: 4/18/25 - 4/25/25

Concentration - Response Evaluation

Survival: #12 No significant effects at any test concentration with a flat concentration-response curve. Test concentrations performed very similarly to dilution control.

Reproduction: #12 No significant effects at any test concentration with a relatively flat concentration-response curve. Test concentrations performed both above and below (but similarly to) the dilution control.

The concentration - response relationship was reviewed and the following determination was made:

Survival	Reproduction	
X	X	Results are reliable and reportable
		Results are anomalous (see explanation below)
		Results are inconclusive - retest (see explanation below)

Results Discussion (if applicable):

TEST METHODS

Ceriodaphnia dubia

Test type:	Modified Chronic Static Renewal Freshwater Test
Test Reference Manual:	EPA-821-R-02-013 "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms"
Test Method:	*Ceriodaphnia dubia* Survival and Reproduction Test - EPA 1002.0
Temperature:	25 ˚C ± 1˚C (Temperatures should not deviate by more than 3˚C during the test) (required)
Light Quality:	Ambient Laboratory Illumination (recommended)
Light Intensity:	10-20 µE/m2/s, or 50-100 ft-c (recommended)
Photoperiod:	16 hours light, 8 hours dark (recommended)
Test chamber size:	30 mL (recommended minimum)
Test solution volume:	15 mL (recommended minimum)
Renewal of Test Solutions:	Daily (required)
Age of Test Organisms:	Less than 24 hours; and all released within a 8-h period (required)
Number of Neonates Per Test Chamber:	1 Assigned using blocking by known parentage (required)
Number of Replicate Test Chambers Per Treatment:	10 (required minimum)
Number of Neonates Per Test Concentration:	10 (required minimum)
Feeding Regime:	Fed 0.1 mL each of YCT and algal suspension per exposure chamber daily. (recommended)
Cleaning:	Use new plastic cups daily (recommended)
Aeration:	None (recommended)
Test Duration:	Until 60% or more of control females have three broods (maximum test duration 8 days) (required)
Endpoints:	Survival and reproduction (required)
Test Acceptability:	80% or greater survival of all control organisms and an average of 15 or more young per surviving female in the control solutions. 60% of surviving control females must produce three broods. (required)
Sampling Requirements:	See note on General Test Conditions page of report
Sample volume required:	1 L/Day (recommended)

CERIODAPHNIA DUBIA
DATASHEETS & STATISTICAL ANALYSIS

NEW ENGLAND BIOASSAY TOXICITY DATA FORM
CHRONIC COVER SHEET

CLIENT:	Test America	*C.dubia* TEST ID #	25-747
ADDRESS:	10 Hazelwood Drive	CHAIN OF CUSTODY #	C45-2416/17
	Amherst, NY 14228	NEB PROJECT #	44240
PERMITTEE:	West Valley Demonstration Project	SAMPLE ID:	Outfall 001
PERMIT NUMBER:	NY0000973		
DILUTION WATER:	Erdman Brook		

INVERTEBRATES

TEST SET-UP TECHNICIAN:	AW/DB
TEST SPECIES:	*Ceriodaphnia dubia*
NEB LOT #	Cd25(RMH090)
AGE:	< 24 hours
TEST SOLUTION VOLUME (mls):	15
ORGANISMS PER TEST CHAMBER:	1
ORGANISMS PER CONCENTRATION:	10

LABORATORY CONTROL WATER (MHRCF)

Lot Number	Hardness mg/L $CaCO_3$	Alkalinity mg/L $CaCO_3$
C45-MH010	90	60

	DATE	TIME
TEST START:	4/18/25	1103
TEST END:	4/25/25	0937

COMMENTS:

FILTRATION: The following were filtered prior to use through a 55 µm mesh filter due to the presence of organisms:

Sample:			
Date/Tech:			

REVIEWED BY: Kimberly Wills DATE: 5/9/25

NEW ENGLAND BIOASSAY - CHRONIC TOXICITY TEST BROOD DATA SHEET

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY		
NEB PROJECT NUMBER:	44240	NEB TEST NUMBER: 25-747	COC # C45-2416/17
TEST ORGANISM:	*Ceriodaphnia dubia*	AGE: <24 hours	Lot # Cd25(RMH090)
START DATE: 4/18/25	TIME: 1103	END DATE: 4/25/25	TIME: 0937

Effluent Concentration	Culture Lot# Cd25(RMH090) Cup #	A7	A8	A13	A16	A18	B1	B7	B8	B13	B14	Total Live Young	# Live Adults	Analyst-Transfer	Analyst-Counts
	Day Number	Replicate A	B	C	D	E	F	G	H	I	J				
NEB Lab Control	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	AW/DB	
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	AW/DB	
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	AV/DB	
	3	6	4	6	4	5	6	7	✓	✓	6	44	10	ME	ME
	4	✓	✓	✓	✓	✓	✓	✓	✓	6	✓	6	10	AW/KO	AW/KO
	5	14	15	15	15	14	14	16	8	17	12	140	10	WB/PD	WB/PD
	6	20	18	19	12	18	18	23	10	19	19	176	10	AW/MOR	AW/MOR
	7	~~19~~	~~20~~	~~25~~	~~22~~	~~22~~	~~20~~	~~22~~	✓	✓	~~21~~	0	10	ME	ME
	totals	40	37	40	31	37	38	46	18	42	37	366	10		MC
Erdman Brook Diluent		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	5	7	4	7	5	6	9	7	✓	7	57	10		
	4	✓	✓	✓	✓	✓	✓	✓	✓	7	✓	7	10		
	5	18	14	2	12	1	19	21	16	16	18	137	10		
	6	22	23	2	23	13	21	26	24	19	22	195	10		
	7	~~21~~	~~23~~	✓	~~18~~	13	~~22~~	✓	~~22~~	✓	~~19~~	13	10		
	totals	45	44	8	42	32	46	56	47	42	47	409	10		
6.25%		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	7	8	5	8	5	6	6	6	✓	7	58	10		
	4	✓	✓	✓	✓	✓	✓	✓	✓	7	✓	7	10		
	5	16	18	16	16	11	17	22	17	9	20	162	10		
	6	19	18	15	15	14	13	20	21	13	16	164	10		
	7	1	~~17~~	~~15~~	~~21~~	~~20~~	~~18~~	~~19~~	~~18~~	✓	✓	1	10		
	totals	43	44	36	39	30	36	48	44	29	43	392	10		

Notes: Replicates in which the neonates are marked with a strike are judged to contain 4th broods (rather than split-broods), and the 4th brood is not included in the reproduction totals per EPA-821-R-02-013.

NEW ENGLAND BIOASSAY - CHRONIC TOXICITY TEST BROOD DATA SHEET

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY		
NEB PROJECT NUMBER:	44240	ORGANISM: *Ceriodaphnia dubia*	START DATE: 4/18/25

Effluent Concentration	Day Number	Replicate A	B	C	D	E	F	G	H	I	J	Total Live Young	# Live Adults		
12.5%	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	7	9	6	7	7	3	7	✓	7	53	10		
	4	8	✓	✓	✓	✓	✓	✓	✓	7	✓	15	10		
	5	14	19	21	13	19	18	18	17	16	18	173	10		
	6	18	21	26	18	18	24	25	25	12	20	207	10		
	7	✓	~~20~~	~~23~~	~~25~~	~~23~~	~~20~~	~~19~~	~~20~~	1	~~22~~	1	10		
	totals	40	47	56	37	44	49	46	49	36	45	449	10		
		A	B	C	D	E	F	G	H	I	J				
25%	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	7	6	8	6	6	5	6	7	✓	6	57	9		
	4	✓	✓/x	✓	✓	✓	✓	✓	✓	8	✓	8	9		
	5	20	X	22	14	15	19	16	15	20	18	159	9		
	6	24	X	21	✓	22	20	22	24	18	19	170	9		
	7	✓	X	1	✓	✓	~~22~~	✓	~~17~~	✓	✓	1	9		
	totals	51	6	52	20	43	44	44	46	46	43	395	9		
		A	B	C	D	E	F	G	H	I	J				
50%	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	9	8	8	6	5	7	7	7	9	6	72	10		
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	5	14	21	22	16	14	21	20	18	17	17	180	10		
	6	17	19	24	23	19	22	26	22	20	21	213	10		
	7	✓	~~24~~	~~21~~	~~24~~	✓	~~23~~	~~20~~	~~22~~	~~23~~	~~23~~	0	10		
	totals	40	48	54	45	38	50	53	47	46	44	465	10		
		A	B	C	D	E	F	G	H	I	J				
100%	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	7	5	7	6	6	6	8	8	✓	6	59	10		
	4	✓	✓	✓	✓	✓	✓	✓	✓	8	✓	8	10		
	5	16	23	20	21	18	17	22	18	22	16	193	10		
	6	21	20	21	23	26	24	23	24	22	20	224	10		
	7	~~20~~	~~25~~	✓	~~23~~	~~25~~	~~22~~	1	~~25~~	✓	~~21~~	1	10		
	totals	44	48	48	50	50	47	54	50	52	42	485	10		

CETIS Analytical Report

Report Date: 28 Apr-25 14:21 (p 1 of 8)
Test Code/ID: 25-747 / 16-0920-3786

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	03-4073-4524	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	000-173-188-0
Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X)	Linear	795016	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC50	>100	---	---	<1	---	---

2d Survival Rate Summary

			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**ΣA/ΣB**	**Mean**	**%Effect**
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%

2d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

2d Survival Rate Binomials

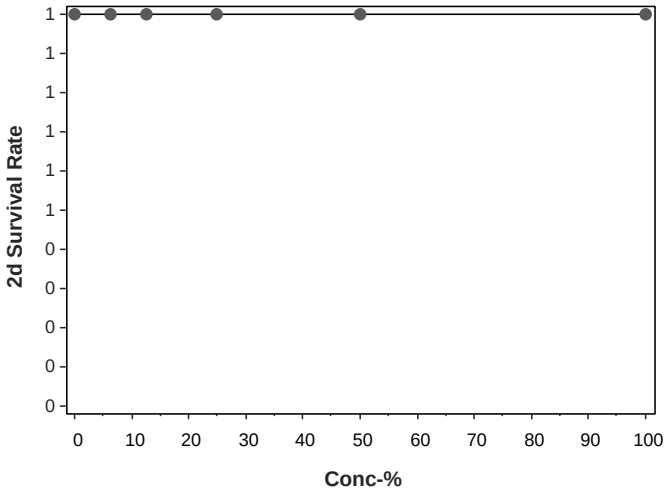
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	03-4073-4524	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	000-173-188-0

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	09-6109-4044	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:19	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	000-173-188-0

Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff		
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water		
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable		
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture	**Age:**	<24

Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units
Untransformed	C > T	100	>100	---	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	1.0000	Exact	1.0000	Non-Significant Effect
		12.5	1.0000	Exact	1.0000	Non-Significant Effect
		25	1.0000	Exact	1.0000	Non-Significant Effect
		50	1.0000	Exact	1.0000	Non-Significant Effect
		100	1.0000	Exact	1.0000	Non-Significant Effect

2d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	D	10	0	10	1.0000	0.0000	0.00%
6.25		10	0	10	1.0000	0.0000	0.00%
12.5		10	0	10	1.0000	0.0000	0.00%
25		10	0	10	1.0000	0.0000	0.00%
50		10	0	10	1.0000	0.0000	0.00%
100		10	0	10	1.0000	0.0000	0.00%

2d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
25		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
50		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

2d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

CETIS Analytical Report

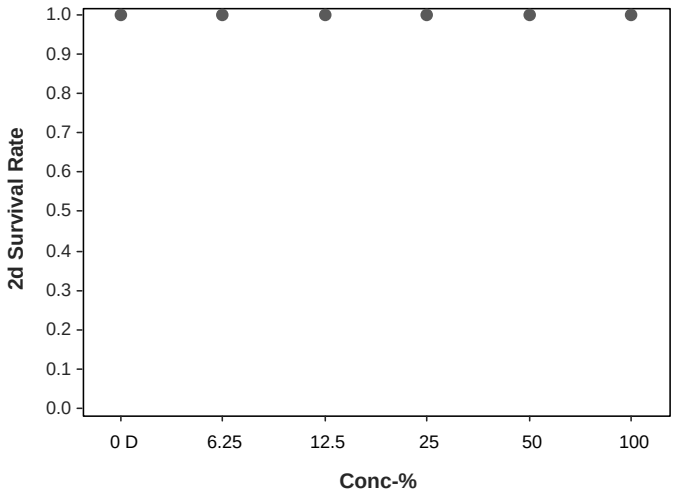
Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	09-6109-4044	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:19	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	000-173-188-0

2d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	06-6959-4210	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	D046493CEAC006E91C9945D8060FBEFD	**Editor ID:**	000-173-188-0
Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X)	Linear	1057109	200	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	1	0.8	<<	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC50	>100	---	---	<1	---	---

7d Survival Rate Summary

			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**ΣA/ΣB**	**Mean**	**%Effect**
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
25		10	0.9000	1.0000	0.0000	1.0000	35.14%	10.00%	9/10	0.9667	3.33%
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9667	3.33%
100		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9667	3.33%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

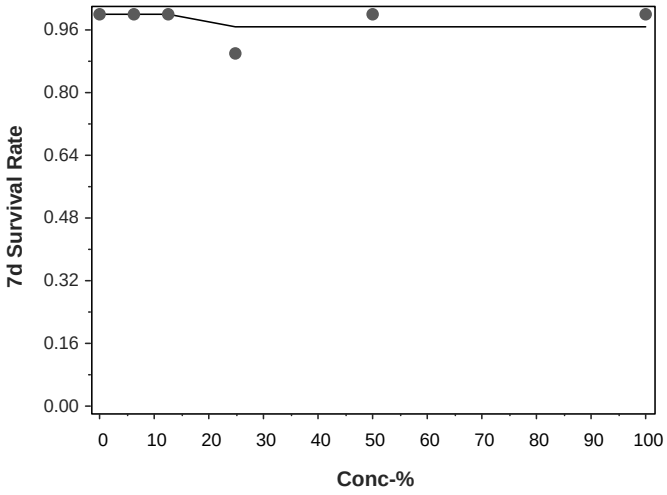
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	06-6959-4210	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	D046493CEAC006E91C9945D8060FBEFD	**Editor ID:**	000-173-188-0

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	10-0312-6572	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	D046493CEAC006E91C9945D8060FBEFD	**Editor ID:**	000-173-188-0
Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1115658	200	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	1	0.8	<<	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC25	>100	---	---	<1	---	---

7d Survival Rate Summary

			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**ΣA/ΣB**	**Mean**	**%Effect**
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
25		10	0.9000	1.0000	0.0000	1.0000	35.14%	10.00%	9/10	0.9667	3.33%
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9667	3.33%
100		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9667	3.33%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

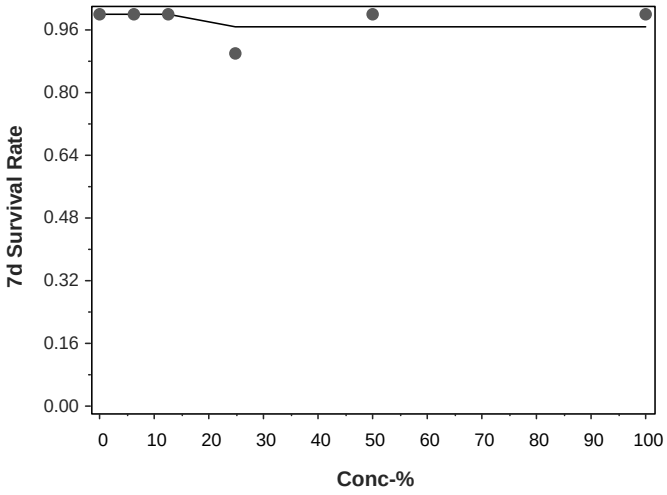
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	10-0312-6572	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	D046493CEAC006E91C9945D8060FBEFD	**Editor ID:**	000-173-188-0

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	05-9831-9274	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	D046493CEAC006E91C9945D8060FBEFD	**Editor ID:**	000-173-188-0
Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units
Untransformed	C > T	100	>100	---	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	1.0000	Exact	1.0000	Non-Significant Effect
		12.5	1.0000	Exact	1.0000	Non-Significant Effect
		25	0.5000	Exact	1.0000	Non-Significant Effect
		50	1.0000	Exact	1.0000	Non-Significant Effect
		100	1.0000	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	1	0.8	<<	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	D	10	0	10	1.0000	0.0000	0.00%
6.25		10	0	10	1.0000	0.0000	0.00%
12.5		10	0	10	1.0000	0.0000	0.00%
25		9	1	10	0.9000	0.1000	10.00%
50		10	0	10	1.0000	0.0000	0.00%
100		10	0	10	1.0000	0.0000	0.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
25		10	0.9000	0.6738	1.0000	1.0000	0.0000	1.0000	0.1000	35.14%	10.00%
50		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

CETIS Analytical Report

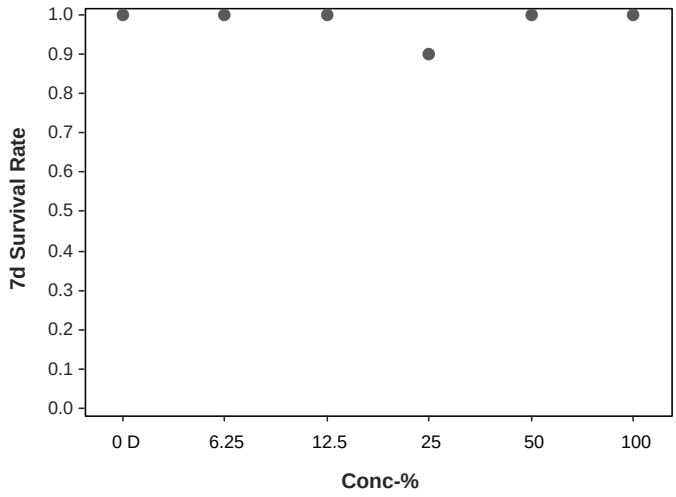
Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	05-9831-9274	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	D046493CEAC006E91C9945D8060FBEFD	**Editor ID:**	000-173-188-0

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	15-4859-5875	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	46C14810DDB160010A351D68B96947AC	**Editor ID:**	000-173-188-0
Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units	MSDu	PMSD
Untransformed	C > T	100	>100	---	1	9.347	22.85%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	18	89	75	1	CDF	0.3218	Non-Significant Effect
		12.5	18	113	75	5	CDF	0.9548	Non-Significant Effect
		25	18	104	75	2	CDF	0.8098	Non-Significant Effect
		50	18	119.5	75	4	CDF	0.9889	Non-Significant Effect
		100	18	133.5	75	3	CDF	0.9998	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	40.9	15	<<	Yes	Passes Criteria
PMSD	0.2285	0.13	0.47	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	768.35	153.67	5	1.844	0.1198	Non-Significant Effect
Error	4500.9	83.35	54			
Total	5269.25		59			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	25.3	15.09	0.0001	Unequal Variances
Distribution	Shapiro-Wilk W Normality Test	0.8323	0.9459	<1.0E-05	Non-Normal Distribution

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	40.9	31.61	50.19	44.5	8	56	4.108	31.76%	0.00%
6.25		10	39.2	34.67	43.73	41.67	29	48	2.004	16.17%	4.16%
12.5		10	44.9	40.58	49.22	45.5	36	56	1.912	13.46%	-9.78%
25		10	39.5	29	50	44	6	52	4.643	37.17%	3.42%
50		10	46.5	42.83	50.17	46.5	38	54	1.621	11.02%	-13.69%
100		10	48.5	45.95	51.05	49.2	42	54	1.128	7.35%	-18.58%

Reproduction Detail

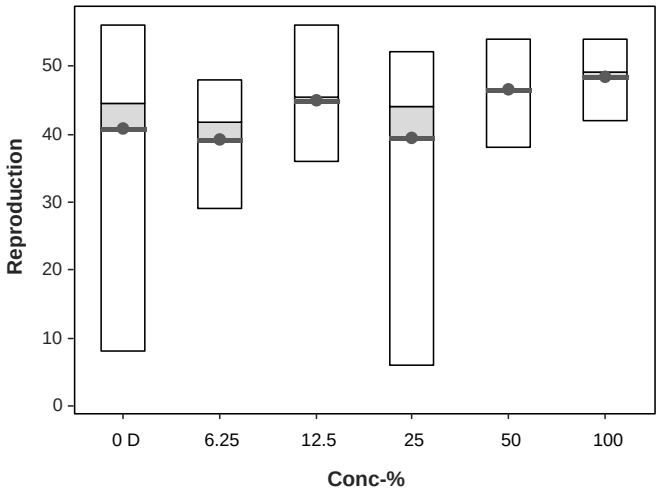
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	45	44	8	42	32	46	56	47	42	47
6.25		43	44	36	39	30	36	48	44	29	43
12.5		40	47	56	37	44	49	46	49	36	45
25		51	6	52	20	43	44	44	46	46	43
50		40	48	54	45	38	50	53	47	46	44
100		44	48	48	50	50	47	54	50	52	42

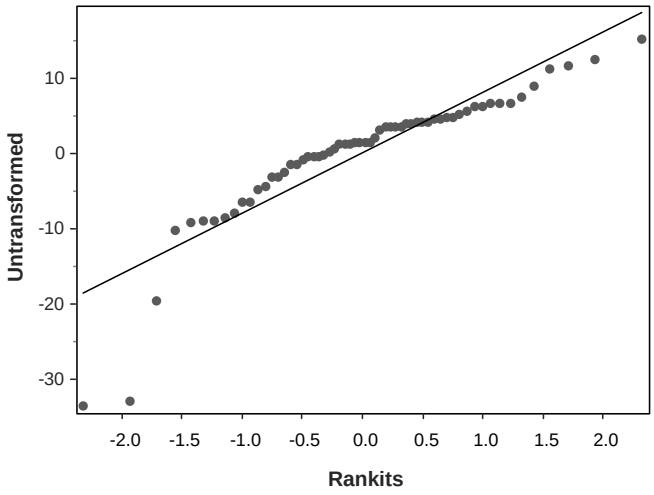
CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	15-4859-5875	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	46C14810DDB160010A351D68B96947AC	**Editor ID:**	000-173-188-0

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	10-0197-1086	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	46C14810DDB160010A351D68B96947AC	**Editor ID:**	000-173-188-0
Batch ID:	09-7654-5344	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Melanie Cruff
Start Date:	18 Apr-25 11:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	25 Apr-25 09:37	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	6d 23h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-7475-4675	**Code:**	5DDCD973	**Project:**	
Sample Date:	17 Apr-25 08:30	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	18 Apr-25 07:56	**CAS (PC):**		**Station:**	
Sample Age:	27h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1439765	200	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	40.9	15	<<	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
IC25	>100	---	---	<1	---	---
IC50	>100	---	---	<1	---	---

Reproduction Summary

			Calculated Variate						Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**Mean**	**%Effect**
0	D	10	40.9	44.5	8	56	31.76%	0.00%	43.25	0.00%
6.25		10	39.2	41.67	29	48	16.17%	4.16%	43.25	0.00%
12.5		10	44.9	45.5	36	56	13.46%	-9.78%	43.25	0.00%
25		10	39.5	44	6	52	37.17%	3.42%	43.25	0.00%
50		10	46.5	46.5	38	54	11.02%	-13.69%	43.25	0.00%
100		10	48.5	49.2	42	54	7.35%	-18.58%	43.25	0.00%

Reproduction Detail

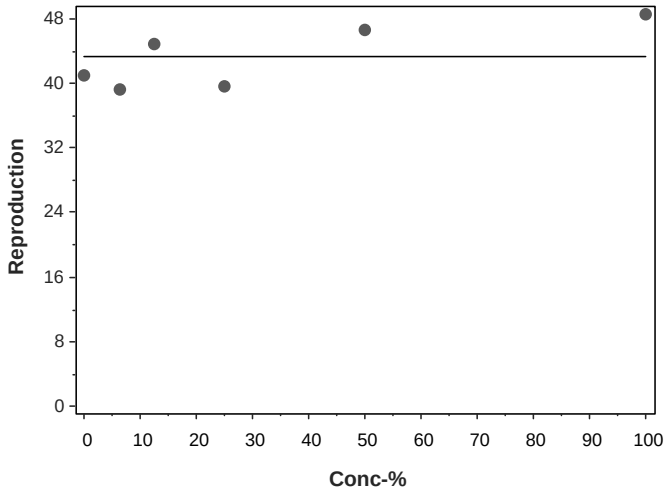
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	45	44	8	42	32	46	56	47	42	47
6.25		43	44	36	39	30	36	48	44	29	43
12.5		40	47	56	37	44	49	46	49	36	45
25		51	6	52	20	43	44	44	46	46	43
50		40	48	54	45	38	50	53	47	46	44
100		44	48	48	50	50	47	54	50	52	42

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	10-0197-1086	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	28 Apr-25 14:20	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	28 Apr-25 14:18	**MD5 Hash:**	46C14810DDB160010A351D68B96947AC	**Editor ID:**	000-173-188-0

Graphics



NEB'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERMINATIONS

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY							
NEB PROJECT NUMBER:	44240			TEST ORGANISM			*Ceriodaphnia dubia*	
DILUTION WATER SOURCE:	Erdman Brook			START DATE:			4/18/25 TIME:	1103
NEB Lab Control	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.4	25.0	25.4	25.3	25.3	24.9	25.3	
D.O. mg/L Initial	8.3	8.3	8.3	8.3	8.3	8.5	8.3	
pH s.u. Initial	7.6	7.8	7.9	7.6	8.1	7.6	8.1	
Conductivity µS Initial	336	321	318	317	318	321	330	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.1	25.0	25.1	24.6	24.4	25.4	25.3	
D.O. mg/L Final	8.1	8.3	8.3	8.0	8.3	8.1	8.0	
pH s.u. Final	7.9	7.7	7.4	7.8	7.9	8.0	7.5	
Conductivity µS Final	334	331	330	330	331	354	328	
Erdman Brook Diluent	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.4	24.9	25.3	24.9	25.2	25.0	25.2	
D.O. mg/L Initial	11.3	9.4	9.2	9.1	8.3	8.4	9.0	
pH s.u. Initial	7.3	7.7	7.7	7.4	7.8	7.5	7.8	
Conductivity µS Initial	395	394	392	392	328	330	326	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.2	25.1	25.2	24.7	24.3	25.3	25.5	
D.O. mg/L Final	8.1	8.2	8.3	8.0	8.3	8.0	8.0	
pH s.u. Final	8.0	7.8	7.6	7.7	7.7	7.8	7.5	
Conductivity µS Final	407	403	403	403	344	339	337	
6.25%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.4	24.9	25.3	24.8	24.9	24.6	25.1	
D.O. mg/L Initial	11.1	9.5	9.2	9.1	9.8	9.3	9.0	
pH s.u. Initial	7.2	7.6	7.7	7.4	7.6	7.4	7.7	
Conductivity µS Initial	439	439	431	437	374	382	370	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.1	25.0	25.3	24.8	24.4	25.3	25.4	
D.O. mg/L Final	8.1	8.2	8.3	7.9	8.3	8.0	7.9	
pH s.u. Final	8.0	7.9	7.8	7.8	7.6	7.8	7.6	
Conductivity µS Final	446	443	439	443	384	388	376	

NEB'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERMINATIONS

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY							
NEB PROJECT NUMBER:	44240			TEST ORGANISM			*Ceriodaphnia dubia*	
DILUTION WATER SOURCE:	Erdman Brook			START DATE:			4/18/25 TIME:	1103
12.5%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.4	24.9	25.4	24.8	24.8	24.6	25.1	
D.O. mg/L Initial	10.8	9.4	9.1	9.1	9.8	9.4	9.1	
pH s.u. Initial	7.2	7.6	7.7	7.4	7.5	7.4	7.7	
Conductivity µS Initial	481	480	479	479	420	426	434	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.1	24.9	25.3	24.8	24.2	25.5	25.4	
D.O. mg/L Final	8.1	8.3	8.3	7.9	8.4	7.8	7.9	
pH s.u. Final	8.1	7.9	7.9	7.8	7.6	7.8	7.7	
Conductivity µS Final	492	486	487	484	430	431	440	
25%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.5	24.9	25.5	24.8	24.8	24.6	25.2	
D.O. mg/L Initial	10.8	9.4	9.0	9.0	9.8	9.3	9.0	
pH s.u. Initial	7.2	7.7	7.7	7.5	7.5	7.4	7.7	
Conductivity µS Initial	569	572	559	571	518	532	521	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.1	25.0	25.3	24.9	24.3	25.4	25.4	
D.O. mg/L Final	8.1	8.3	8.3	8.0	8.4	7.8	8.0	
pH s.u. Final	8.1	8.0	7.9	7.9	7.6	7.9	7.8	
Conductivity µS Final	580	574	568	577	537	555	550	
50%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.5	25.0	25.6	24.8	24.8	24.6	25.2	
D.O. mg/L Initial	10.7	9.4	9.0	9.0	9.8	9.3	8.9	
pH s.u. Initial	7.2	7.7	7.7	7.5	7.5	7.4	7.7	
Conductivity µS Initial	816	746	737	745	726	747	730	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.2	25.1	25.3	24.9	24.3	25.5	25.4	
D.O. mg/L Final	8.1	8.3	8.3	8.0	8.4	7.9	7.9	
pH s.u. Final	8.2	8.1	8.0	8.0	7.7	8.0	7.9	
Conductivity µS Final	827	753	745	747	743	758	764	

NEB'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERMINATIONS

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY							
NEB PROJECT NUMBER:	44240			TEST ORGANISM			*Ceriodaphnia dubia*	
DILUTION WATER SOURCE:	Erdman Brook			START DATE:			4/18/25 TIME:	1103
100%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	VV/DB	WB	WB	MOR	AV/KO	CG	AW/MOR	
Temp °C Initial	24.5	25.0	25.8	24.8	24.8	24.5	25.3	
D.O. mg/L Initial	10.7	9.3	9.0	9.0	9.6	9.2	8.9	
pH s.u. Initial	7.2	7.6	7.7	7.5	7.5	7.4	7.7	
Conductivity µS Initial	1,103	1,101	1,095	1,100	1,137	1,149	1,134	
Tech Initials Final	WB	DB	VV/AG	ME	VV/PD	VV/MOR	TS	
Temp °C Final	25.2	25.2	25.3	25.0	24.3	25.5	25.4	
D.O. mg/L Final	8.2	8.3	8.3	8.1	8.4	8.0	8.0	
pH s.u. Final	8.4	8.2	8.1	8.2	7.9	8.1	8.1	
Conductivity µS Final	1,144	1,122	1,126	1,148	1,209	1,221	1,203	
	1	2	3	4	5	6	7	Remarks
Tech Initials Initial								
Temp °C Initial								
D.O. mg/L Initial								
pH s.u. Initial								
Conductivity µS Initial								
Tech Initials Final								
Temp °C Final								
D.O. mg/L Final								
pH s.u. Final								
Conductivity µS Final								

Table of Random Permutations of 16 **C.dubia Test ID#** 25-747

7	12	15	15	1	2	7	16	10	2	14	15	7	13	13	10	6	1	8	10
13	3	8	16	7	10	11	10	13	5	11	7	13	16	7	7	5	13	2	14
3	1	4	5	14	13	3	14	9	13	13	2	9	15	6	2	8	4	5	8
11	8	16	14	15	6	2	6	2	16	8	5	12	3	9	13	4	3	10	4
14	9	1	6	3	9	14	13	8	6	5	8	14	7	3	15	13	11	4	7
2	16	10	13	5	5	13	2	11	7	3	12	5	14	12	16	2	2	9	15
4	6	13	7	2	15	1	9	1	4	7	10	6	9	11	9	7	6	16	11
6	14	6	10	4	14	4	15	3	3	4	16	2	6	5	1	12	10	6	9
10	15	2	1	13	12	16	3	4	8	10	1	15	5	14	12	14	12	3	2
12	10	7	12	9	11	9	8	12	14	15	4	11	8	16	8	9	14	14	1
15	7	5	2	10	7	8	12	6	15	6	13	16	12	15	4	11	8	12	6
16	2	11	8	8	8	15	5	16	1	1	9	8	1	8	14	16	5	13	5
9	13	14	3	6	4	10	11	5	12	9	3	10	4	4	3	10	9	1	3
8	11	9	4	11	3	12	7	7	10	12	14	3	10	1	6	15	16	15	12
1	5	12	11	16	16	5	4	14	9	16	11	1	2	10	5	1	15	7	13
5	4	3	9	12	1	6	1	15	11	2	6	4	11	2	11	3	7	11	16

REPS CONC

11	8	16	5	5	13	1	13	2	16	14	12	9	8	7	5	13	3	13	3
2	2	8	8	14	16	4	3	8	11	10	14	15	1	2	11	4	5	15	9
6	13	2	13	6	5	9	15	11	10	12	6	16	15	16	9	10	12	16	15
14	12	4	16	16	11	14	10	5	12	3	3	12	14	15	13	6	4	1	16
8	6	3	9	4	10	6	4	16	2	2	9	8	16	4	6	5	15	7	8
9	15	12	10	3	2	12	6	1	15	4	13	7	7	9	12	14	8	8	11
3	10	11	12	13	12	5	11	7	8	9	5	14	11	10	1	3	13	3	5
16	1	13	14	8	14	15	5	3	7	11	15	6	12	5	7	11	1	14	4
1	14	14	2	9	15	16	14	6	14	7	8	3	13	11	8	7	7	12	7
4	4	6	4	12	3	11	8	15	9	8	1	13	6	3	3	15	9	9	12
15	5	1	11	10	6	3	7	10	5	5	11	10	10	12	15	16	14	5	2
5	3	5	6	7	7	13	2	14	3	16	4	5	5	13	4	9	16	2	6
12	7	15	15	15	9	8	12	12	13	15	10	1	4	6	16	2	6	11	1
10	11	10	3	2	4	2	1	4	6	6	7	11	9	14	10	8	11	4	13
7	9	7	7	11	1	7	16	13	1	13	2	4	2	1	2	12	2	10	14
13	16	9	1	1	8	10	9	9	4	1	16	2	3	8	14	1	10	6	10

1	6	7	4	8	6	5	2	8	15	4	6	6	1	4	5	7	13	2	10
9	15	11	3	11	15	9	10	1	3	8	2	15	7	9	8	16	1	14	3
10	16	4	5	12	9	16	11	7	1	7	16	11	8	3	3	12	2	3	4
4	14	1	9	5	5	4	13	6	8	15	5	12	5	7	16	5	11	8	1
7	3	13	14	15	2	1	14	16	5	14	9	2	16	1	12	6	14	4	13
16	11	2	1	14	16	6	9	3	4	16	14	3	15	11	11	3	9	12	5
3	10	16	16	13	7	13	1	11	14	9	10	16	2	10	2	10	7	10	16
11	13	9	13	4	13	8	3	5	13	10	12	5	12	5	14	13	16	5	6
15	2	3	12	9	12	2	4	13	10	3	13	14	4	2	1	14	8	6	12
14	1	14	6	10	1	3	12	4	2	2	4	13	3	16	9	9	3	7	14
13	12	5	11	3	11	15	8	2	7	11	7	8	14	6	4	4	4	15	11
12	5	10	7	2	14	7	15	14	16	13	1	9	10	12	10	11	10	9	8
8	9	8	10	6	4	11	7	10	11	6	8	4	9	8	15	8	6	11	9
2	7	6	2	1	8	10	6	15	12	1	11	7	11	13	6	1	15	13	15
6	4	15	8	16	10	14	16	9	6	12	3	10	6	14	7	2	12	16	7
5	8	12	15	7	3	12	5	12	9	5	15	1	13	15	13	15	5	1	2

13	4	10	4	16	13	16	13	5	3	6	14	1	16	8	7	2	3	3	12
5	14	4	6	8	2	15	1	13	14	16	4	15	4	3	12	12	1	4	7
2	2	2	15	14	16	9	12	16	6	10	15	14	9	10	1	14	8	8	16
7	12	15	8	12	3	5	14	7	12	5	13	16	1	7	5	11	2	9	3
6	9	7	14	9	14	10	11	15	11	12	1	12	12	14	16	3	11	11	8
14	5	16	7	10	8	11	8	14	13	7	11	6	3	11	4	4	6	6	9
15	11	8	9	7	12	8	7	1	15	9	3	3	7	13	11	10	4	5	1
11	6	6	1	4	1	3	16	12	5	4	9	13	13	6	8	15	9	1	14
4	10	3	16	2	11	7	9	6	9	1	8	4	11	5	2	16	10	12	4
1	8	1	13	1	15	4	4	11	4	2	16	5	8	1	9	5	12	16	6
9	7	14	2	6	4	14	10	9	8	15	10	7	10	9	10	6	14	10	11
12	1	9	10	15	5	2	15	10	2	14	2	8	2	4	13	8	5	15	5
3	3	12	11	5	9	6	6	3	10	13	12	9	6	2	15	7	15	7	13
10	15	11	5	13	7	12	5	2	7	11	5	10	15	12	3	1	13	13	10
8	13	13	3	3	10	13	2	4	1	8	6	11	14	15	6	9	16	2	2
16	16	5	12	11	6	1	3	8	16	3	7	2	5	16	14	13	7	14	15

Ceriodaphnia dubia Culture Chart

Lot # Cd25 (RMH 090) A

Brood mother source: RMH 083B 16 Source's brood size: 25 (Qty.) West Valley (4-18-25)

Tech	MS/AG	MS/AG	MOR	MOR	Sat	SM	KL	MOR		MOR	MS/AG	SM				
Date	4/8	4/9	4/10	4/11	4/12	4/13	4/14	4/15		4/16	4/17	4/18				
Day	0	1	2	3	4	5	6	7		8	9	10	11	12	13	14
Cup #	Beaker		Tray													
1	N	N	N	N		2B 13	2	Y T1 23	1	Y	n	Y				
2	N	N	N	N		11	2	Y T2 22	2	Y	n	Y				
3	N	N	N	N		14	2	Y	3	Y	n	Y				
4	N	N	N	N		15	2	Y T3 28	4	Y	n	Y				
5	N	N	N	N		16	2	Y	5	Y	n	Y				
6	N	N	N	N		16	2	Y T4 20	6	Y	n	Y				
7	N	N	N	N		15	2	Y T5 22	7	Y	n	Y T1 30				
8	N	N	N	N		13	2	Y T6 24	8	Y	n	Y T2 30				
9	N	N	N	N		14	2	Y	9	Y	n	Y				
10	N	N	N	N		11	2	Y T7 21	10	Y	n	Y				
11	N	N	N	N		12	2	Y T8 18	11	Y	n	Y				
12	N	N	N	N		15	2	Y T9 20	12	Y	n	Y				
13	N	N	N	N		6	2 1	Y T10 14	13	Y	n	Y T3 30				
14	N	N	N	N		2B 17	2	X	14	—						
15	N	N	N	N		15	2	Y	15	Y	n	Y				
16	N	N	N	N		14	2	Y	16	Y	n	Y T4 30				
17	N	N	N	N		15	2	Y	17	Y	n	Y				
18	N	N	N	N		15	2	Y	18	Y	n	Y T5 30				

Y = neonates present, and EPA *criterion has been met* **N** = no neonates **P** = Neonates present in P.M. on previous day

2B = two broods present. **2Y** = two broods and criterion met: ≥ 20 neos. by 3rd brood. T# = neonates used in test replicate, #=neonates in brood.

Test organism collection:

Project #	Symbol	P	Tray diagram?	Time period, neonates released	Collection date / time
44479	T		Y	4-14-25/1630 → 4-14-25/1830	4-15-25/1306
44240	T		Y	4-17-25/1630 → 4-17-25/1930	4/18/25/0930
	T				
	T				
	T				

Ceriodaphnia dubia Culture Chart

Lot # Cd25 (RMH 090) B

Brood mother source: RMH 083B 17 Source's brood size: 27 (Qty.) West Valley (4-18-25)

Tech	Mel/Kat	Mel/Ace	MOR	MOR	Sat	SM	KO	MOR		MOR	Mel/Ace	SM				
Date	4/8	4/9	4/10	4/11	4/12	4/13	4/14	4/15		4/16	4/17	4/18				
Day	0	1	2	3	4	5	6	7		8	9	10	11	12	13	14
Cup #	Beaker		Tray			2B										
1	N	N	N	N		117	2	T1 Y24	1	Y	n	T6 Y20				
2	N	N	N	N		15	2	Y	2	Y	n	Y				
3	N	N	N	N		11	2	T2 Y23	3	Y	n	Y				
4	N	N	N	N		16	2	T3 Y22	4	Y	n	Y				
5	N	N	N	N		13	2	T4 Y20	5	Y	n	Y				
6	N	N	N	N		14	2	T5 Y21	6	Y	n	Y				
7	N	N	N	N		13	2	T6 Y21	7	Y	n	T7 Y22				
8	N	N	N	N		14	2	Y	8	Y	n	T8 Y21				
9	N	N	N	N		15	2	Y	9	Y	n	Y				
10	N	N	N	N		16	2	T9 Y25	10	Y	n	Y				
11	N	N	N	N		14	2	Y	11	Y	n	Y				
12	N	N	N	N		14	2	Y	12	Y	n	Y				
13	N	N	N	N		17	2	Y T8 24	13	Y	n	T9 Y19				
14	N	N	N	N		18	2	Y	14	Y	n	T10 Y23				
15	N	N	N	N		18	2	T9 Y22	15	Y	n	Y				
16	N	N	N	N		16	2	Y	16	Y	n	Y				
17	N	N	N	N		15	2	T10 Y20	17	Y	n	Y				
18	N	N	N	N		15	2	Y	18	Y	n	Y				

Y = neonates present, and EPA *criterion has been met* **N** = no neonates **P** = Neonates present in P.M. on previous day

2B = two broods present **2Y** = two broods and criterion met: ≥ 20 neos. by 3rd brood. T# = neonates used in test replicate, #=neonates in brood.

Test organism collection:

Project #	Symbol	P	Tray diagram?	Time period, neonates released	Collection date / time
44761	T		Y	4-14-25/1630 → 4-14-25/1830	4-15-25/1322
44240	T		Y	4-17-25/1630 → 4-17-25/1730	4/18/25/0930
	T				
	T				
	T				

SAMPLE RECEIPT CHEMISTRY
&
CHAIN OF CUSTODY DOCUMENTS

NEW ENGLAND BIOASSAY - INITIAL CHEMISTRY DATA

PERMITTEE: West Valley Demonstration Project

NEB JOB # 44240

DATE RECEIVED	4/18/25		4/22/25			
SAMPLE TYPE:	EFF #1	BROOK #1	EFF #2	BROOK #2		
COC #	C45-2416	C45-2417	C45-2459	C45-2460		
pH (SU)	7.3	7.4	7.3	7.3		
Temperature (^{o}C)	0.4	0.3	1.2	1.4		
Dissolved Oxygen (mg/L)	12.0	12.0	10.5	11.1		
Conductivity (µmhos)	1,133	407	1,177	332		
Salinity (ppt)	<1	<1	<1	<1		
TRC - DPD (mg/L)	0.006	0.017	0.015	0.024		
TRC - Amperometric (mg/L)	N/A	N/A	N/A	N/A		
Hardness (mg/L as $CaCO_3$)	154	100	166	88		
Alkalinity (mg/l as $CaCO_3$)	151	75	160	68		
Tech Initials	ME/DB	ME/DB	ME/AG	ME/AG		

NOTE: NA = NOT APPLICABLE

Data Reviewed By: Kimberly Willis Date Reviewed: 5/9/25

NEW ENGLAND BIOASSAY - CHAIN-OF-CUSTODY

Sample set# 1

EFFLUENT

Sampler: JJD
Title: Engineer
Facility: West Valley

RECEIVING WATER

Sampler: JJD
Title: Engineer
Facility: West Valley

Sampling Method: X **Composite**
Sample ID: Outfall 001
Start Date: 4/16/25 Time: 0830
End Date: 4/17/25 Time: 0830

Sample Type:
____ Prechlorinated
____ Dechlorinated
X Unchlorinated
____ Chlorinated

Sampling Method: X Grab
Sample ID: Erdman Brook
Date Collected: 4/17/25
Time Collected: 0800

Received ON ICE

Effluent Sampling Location and Procedures: WNSP001 Comp Sample (initial sample) (NEB water for control)

Receiving Water Sampling Location and Procedures: WNERB53 EM-2 grab sample (dilution water)

Requested Analysis: X Chronic and modified acute - Ceriodaphnia only

Sample Shipment

Method of Shipment: UPS Next Day Early

Relinquished By:		Date: 4-17-25	Time: 1060
Received By:	Kim Bone NEB	Date: 4-18-25	Time: 0756
Relinquished By:		Date:	Time:
Received By:		Date:	Time:
Relinquished By:		Date:	Time:
Received By:		Date:	Time:

FOR NEB USE ONLY

Temperature of Effluent Upon Receipt at Lab: 0.4 °C
Temperature of Receiving Water Upon Receipt at Lab: 0.3 °C
Effluent COC# C45-2416
Receiving Water COC# C45-2417

IF THIS COOLER IS MISPLACED OR THE LABEL IS LOST, PLEASE SHIP TO:
KIM WILLS, NEW ENGLAND BIOASSAY, 77 BATSON DRIVE, MANCHESTER CT 06042

CH2M Hill B&W West Valley LLC (CHBWV) 10282 Rock Springs Rd. West Valley, NY 14171

CHAIN-OF-CUSTODY / REQUEST-FOR-ANALYSIS / PACKING SHEET

Sample Type: SPDES

Electronic Disk - YES

External Lab Destination	Purchase Order Number	Charge Number	Release Number	Report Format Level	Priority	OrderID:
Eurofins	CH-007532	WV03.IN.01.01.01.02.01	1517	1	10 Days	250409-09 Work Order: SP-Asap

Custodian Signature: _____ **C-O-C Reviewed By:** _____

Report Data To: Bob Steiner (716) 481-5793
Chet Wrotniak (716) 982-6403

Location Code	Sample ID	Date	Time	# Cont	Preservative	Tests	Sample Notes
WNSP001	2025-02908	04/17/25	08:30	1	Cool	wet_du_a, wet_du_c,	Initial Sample. WNERB53 will be used for dilutions. NEB water for control.
		CAS-2416					
WNERB53	2025-02963	04/17/25	08:00	1	Cool	dil_water,	Receiving water for use in dilutions.
		CAS-2417					

Project Notes: Erdman Brook water also included in shipment. Please see the attached sheet for further details, Thank you

Receiv
ON IC

Signature Rel: Date/Time 4-17-25 0905	Signature Rel: Date/Time
Signature Rec: Date/Time Dan Burke NFB 4-18-25 @0756	Signature Rec: Date/Time
Signature Rel: Date/Time	Signature Rel: Date/Time
Signature Rec: Date/Time	Signature Rec: Date/Time
Signature Rel: Date/Time	Sample Receipt at Lab: Cool? YES NO Temp: C
Signature Rec: Date/Time	Signature Rec: Date/Time YES NO

NEW ENGLAND BIOASSAY - CHAIN-OF-CUSTODY

Sample set# 2

Received ON ICE

EFFLUENT

Sampler: SMPR

Title: Engineer

Facility: West Valley

RECEIVING WATER

Sampler: JSD

Title: Engineer

Facility: West Valley

Sampling Method: X **Composite**

Sample ID: Outfall 001

Start Date: 4/20/25 Time: 0900

End Date: 4/21/25 Time: 0900

Sample Type:

____ Prechlorinated

____ Dechlorinated

X Unchlorinated

____ Chlorinated

Sampling Method: X Grab

Sample ID: Erdman Brook

Date Collected: 4-21-25

Time Collected: 0830

Effluent Sampling Location and Procedures: SP001 Composite Sample

REFRESH SAMPLE

Receiving Water Sampling Location and Procedures: EM-2 Grab Sample

REFRESH SAMPLE

Requested Analysis: X Chronic and modified acute - Ceriodaphnia only

Sample Shipment

Method of Shipment: UPS Next Day Early

Relinquished By:		Date: 4-21-25	Time: 0930
Received By:	NEB	Date: 4/22/25	Time: 0809
Relinquished By:		Date:	Time:
Received By:		Date:	Time:
Relinquished By:		Date:	Time:
Received By:		Date:	Time:

FOR NEB USE ONLY

Temperature of Effluent Upon Receipt at Lab: 1.2 °C

Temperature of Receiving Water Upon Receipt at Lab: 1.4 °C

Effluent COC# C45-2459

Receiving Water COC# C45-2460

IF THIS COOLER IS MISPLACED OR THE LABEL IS LOST, PLEASE SHIP TO:
KIM WILLS, NEW ENGLAND BIOASSAY, 77 BATSON DRIVE, MANCHESTER CT 06042

CH2M Hill B&W West Valley LLC (CHBWV) 10282 Rock Springs Rd. West Valley, NY 14171

CHAIN-OF-CUSTODY / REQUEST-FOR-ANALYSIS / PACKING SHEET

Sample Type: SPDES

Electronic Disk - YES

External Lab Destination	Purchase Order Number	Charge Number	Release Number	Report Format Level	Priority
Eurofins	CH-007532	WV03.IN.01.01.01.02.01	1519	1	10 Days

OrderID: 250409-09
Work Order: SP-Asap

Custodian Signature: _____ C-O-C Reviewed By: _____

Report Data To: Bob Steiner (716) 481-5793
Chet Wrotniak (716) 982-6403

Location Code	Sample ID	Date	Time	# Cont	Preservative	Tests	Sample Notes
WNSP001	2025-02908A	04/21/25	9:00	1	Cool		Refresh water. WNERB53 will be used for dilutions. NEB water for control.
WNERB53	2025-02963A	04/21/25	8:30	1	Cool	dil_water,	Refresh water. Receiving water for use in dilutions.

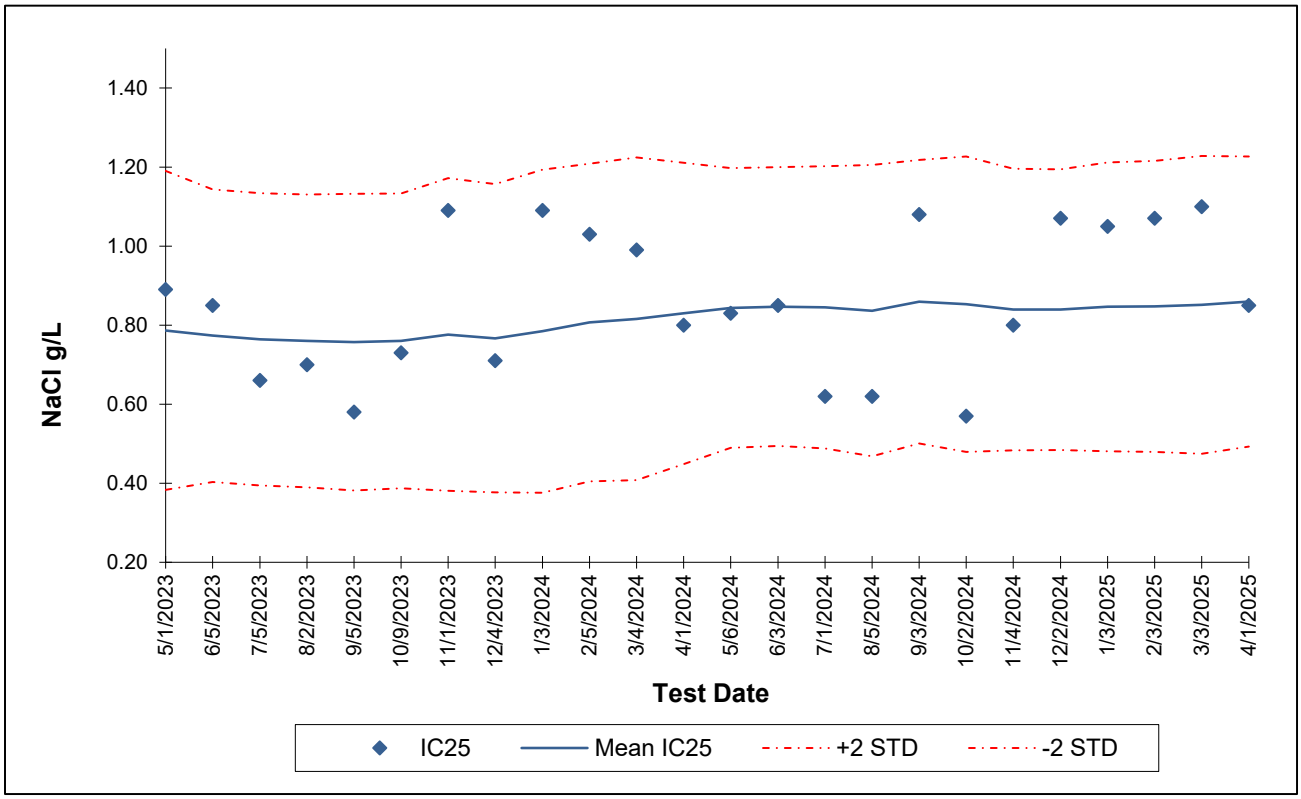
Project Notes: Erdman Brook water also included in shipment. Please see the attached sheet for further details, Thank you

Signature Rel: Date/Time 4-21-25 1105	Signature Rel: Date/Time
Signature Rec: Date/Time	Signature Rec: Date/Time
Signature Rel: Date/Time	Signature Rel: Date/Time
Signature Rec: Date/Time	Signature Rec: Date/Time
Signature Rel: Date/Time	Sample Receipt at Lab: Cool? YES NO Temp: C
Signature Rec: Date/Time	Signature Rec: Date/Time YES NO

REFERENCE TOXICANT CHARTS

New England Bioassay

Reference Toxicant Data: Sodium chloride (NaCl) *Ceriodaphnia dubia* Chronic Reproduction IC_{25}



Test ID	Date	IC_{25}	Mean IC_{25}	STD	-2STD	+2STD	Avg. CV	Repro PMSD (%)	Avg. PMSD (%)
23-731	5/1/2023	0.89	0.79	0.20	0.38	1.19	0.26	21.31	16.67
23-973	6/5/2023	0.85	0.77	0.19	0.40	1.14	0.24	22.80	17.16
23-1143	7/5/2023	0.66	0.76	0.18	0.39	1.13	0.24	10.17	16.98
23-1365	8/2/2023	0.70	0.76	0.19	0.39	1.13	0.24	23.03	17.64
23-1691	9/5/2023	0.58	0.76	0.19	0.38	1.13	0.25	7.64	17.28
23-2024	10/9/2023	0.73	0.76	0.19	0.39	1.13	0.25	13.34	17.09
23-2176	11/1/2023	1.09	0.78	0.20	0.38	1.17	0.25	12.89	16.26
23-2356	12/4/2023	0.71	0.77	0.20	0.38	1.16	0.25	11.47	15.64
24-10	1/3/2024	1.09	0.78	0.20	0.38	1.19	0.26	15.69	15.70
24-192	2/5/2024	1.03	0.81	0.20	0.40	1.21	0.25	16.44	15.46
24-364	3/4/2024	0.99	0.82	0.20	0.41	1.22	0.25	18.00	15.76
24-551	4/1/2024	0.80	0.83	0.19	0.45	1.21	0.23	16.01	15.83
24-789	5/6/2024	0.83	0.84	0.18	0.49	1.20	0.21	9.77	15.31
24-953	6/3/2024	0.85	0.85	0.18	0.49	1.20	0.21	16.23	15.43
24-1184	7/1/2024	0.62	0.85	0.18	0.49	1.20	0.21	13.15	15.07
24-1432	8/5/2024	0.62	0.84	0.18	0.47	1.21	0.22	25.86	15.50
24-1644	9/3/2024	1.08	0.86	0.18	0.50	1.22	0.21	8.30	15.10
24-1933	10/2/2024	0.57	0.85	0.19	0.48	1.23	0.22	18.78	14.93
24-2149	11/4/2024	0.80	0.84	0.18	0.48	1.20	0.21	7.67	14.80
24-2326	12/2/2024	1.07	0.84	0.18	0.48	1.19	0.21	14.94	14.92
25-2	1/3/2025	1.05	0.85	0.18	0.48	1.21	0.22	20.77	15.42
25-210	2/3/2025	1.07	0.85	0.18	0.48	1.22	0.22	13.63	15.63
25-392	3/3/2025	1.10	0.85	0.19	0.47	1.23	0.22	15.87	15.15
25-600	4/1/2025	0.85	0.86	0.18	0.49	1.23	0.21	12.97	15.28

National 75th Percentile and 90th Percentile CV Averages for Ceriodaphnia Reproduction IC25 (EPA 833-R-00-003): 0.45 - 0.62
PMSD Upper and Lower Bounds for Ceriodaphnia Reproduction (EPA-821-R-02-013): 13% - 47%

NYELAP
ACCREDITATION ANALYTE LIST

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2026
Issued April 01, 2025

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. KIMBERLY WILLS
NEW ENGLAND BIOASSAY INC.
77 BATSON DRIVE
MANCHESTER, CT 06042

NY Lab Id No: 12157

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Aquatic Toxicity

Fathead minnow-Pimephales promelas	EPA 1000.0
	EPA 2000.0
Opossum shrimp-Americamysis bahia	EPA 1007.0
	EPA 2007.0
Sheephead minnow-Cyprinodon varie	EPA 1004.0
	EPA 2004.0
Water flea-Ceriodaphnia dubia	EPA 1002.0
	EPA 2002.0

Serial No.: 70903

Attachment C
Email Confirmation from NYSDEC

From: netdmr-notification@epa.gov
To: R9.NetDMR@dec.ny.gov; William Kean; Michael Pendl; Joshua Desmarais; Jennifer Dundas; Jamie Prowse; Elizabeth Lowes; rwring@cattco.org; William Frederick; Matia Varner; Robert Steiner; Anna Carr
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973
Date: Tuesday, May 20, 2025 2:31:17 PM

The following signed 6 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _6e0579e5-0ab0-4f96-94e1-ce1ba5beeaed
User ID: ELIZABETH.LOWES@CHBWV.COM
Timestamp: 05/20/2025 13:16:36

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: 04/30/25

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: 04/30/25

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 04/30/25

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK
Monitoring Period End Date: 04/30/25

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 04/30/25

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: W - OUTFALL 001 WET TESTING QUARTERLY
Monitoring Period End Date: 06/30/25

Thank you.

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