

DMR-QA STUDY 41

Immediately verify receipt of DMR-QA Study 41 by either filling out the form below and mailing this page to your State DMR-QA Coordinator (listed on pages 7-8) or follow the e-mail instructions at the bottom of this page.

The mailed form must be postmarked on or before **June 4, 2021**.

NPDES PERMITTEE ADDRESS VERIFICATION FORM

Discharge Monitoring Report - Quality Assurance (DMR-QA) Study 41

Please provide corrections to the mailing address where all DMR-QA study paperwork should be sent.

State NPDES Permit Number 0 0 2 4 4 9 0

(2-character State Code + 7 digit Permit Code as shown on the mailing label, for example AZ1234567)

If contact/address information from the mailing label or e-mail is correct, please check this box only →

Facility Name	McKinleyville Community Services District		
Contact Name	James Henry	Title	Operations Director
Mailing Address	P.O. Box 2037		
City	Mckinleyville	State	<input type="text" value="CA"/> Zip Code 95519
Phone Number	7078393251	Fax Number	7078398685
E-mail Address	jhenry@mckinleyvillecsd.com		

ELECTRONIC NOTIFICATION PROCEDURE

You may verify receipt electronically by sending an e-mail on or before **June 4, 2021** to your State DMR-QA Coordinator (listed on pages 7-8 of the enclosed instructions). The e-mail should be composed in the following manner:

1. Subject line should contain **ONLY** the NPDES Permit number (2-character State Code + 7-digit Permit Code as shown on the mailing label, for example AZ1234567).
2. If you require any changes to the mailing label on this announcement, the body of the e-mail should contain a list including: Company name, Contact Name/Title, Mailing Address, City, State, Zip Code, Facility Type (select one: federal, state, local or commercial/private). Otherwise, you may simply write "No changes to address or contact information" in the body of the e-mail.



United States Environmental Protection Agency

Office of Enforcement and Compliance Assurance

1200 Pennsylvania Ave NW, Mail Code 2227A

Washington, DC 20460

DMR-QA Study 41

(This data is collected under the authority of Section 308 of the Clean Water Act.)

NPDES Permittee Data Report Form

Attention: Follow the instructions on the previous page to complete this form and submit data for evaluation.

Due October 22, 2021

State

NPDES Permit Number

Permit Extension

CA

0024490

Permittee Name

McKinleyville Community Services District

Current Permittee Mailing Address

P.O. Box 2037

City

McKinleyville

State

CA

Zip Code

95519

Phone Number

7078393251

Fax Number

7078398685

E-mail

jhenry@mckinleyvillecsd.com

Optional: If WP Study was used, list PT Provider name(s):

Optional: WP Study Number(s)

For DMR-QA Study 41, conducted in 2021, the Permittee ensured that their laboratory(ies) performing the required analyses:

Received PT Samples
Yes No

Submitted Complete and Accurate Data
by August 27, 2021
Yes No

Received a Graded Report by
September 24, 2021
Yes No

Certification by Permit Holder or Authorized Representative

(as per 40 CFR Section 122.22)

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 the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) permit. Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S.EPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official

James Henry

Title

Operations Director

Signature

James Henry

Date

9/14/2021

Address, phone number and e-mail of certifying official are required if different from above.

Address

Phone Number

City

State

Zip Code

E-mail



United States Environmental Protection Agency
Office of Enforcement and Compliance Assurance
 1200 Pennsylvania Ave NW, Mail Code 2227A
 Washington, DC 20460

DMR-QA Study 41

(This data is collected under the authority of Section 308 of the Clean Water Act.)

Permittee Name McKinleyville Community Services District	State <input type="text"/>	NPDES Permit No. 0024490	Permit Extension <input type="text"/>
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Identification of all CHEM, MICRO and WET laboratories who performed analyses for this permit

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			Chem	Micro	WET		
North Coast Laboratories LTD	5680 West End Road Arcata, Ca. 95521	CA00065	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Basic Laboratories Inc.	2218 Railroad drive Redding, Ca. 96001	CA00381	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Pacific Ecorisk	2250 Cordelia Road Fairfield, Ca. 94534	CA01307	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

** See Footnote on page 2 (Frequently Asked Questions) for the current list of states with lab accreditation programs

If you need additional space, please make a copy of this page for additional laboratories.

Chemistry/Microbiology Analyte Checklist DMR-QA Study 41

Analyte Test	Test Required	Method Number Used (optional)	Laboratory's Graded Result		Analyte determined by state-certified lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology					
E. coli, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fecal Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trace Metals					
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimony	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beryllium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, total	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, hexavalent	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cobalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iron	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manganese	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nickel	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selenium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silver	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thallium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vanadium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zinc	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demands					
5-day BOD	<input checked="" type="checkbox"/>	SM 5210 B-2001	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-day Carbonaceous BOD	<input checked="" type="checkbox"/>	SM 5210 B-2001	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minerals					
Alkalinity, total (CaCO ₃)	<input checked="" type="checkbox"/>	SM 2320 B-1997	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chloride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluoride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardness, total (CaCO ₃)	<input checked="" type="checkbox"/>	SM 2340 B-1997	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific conductance (25°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfate	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Dissolved Solids (180°C)	<input checked="" type="checkbox"/>	SM 2540 B-1997	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients					
Ammonia as N	<input checked="" type="checkbox"/>	SM 4500-NH3 B, D 1997	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrate as N	<input checked="" type="checkbox"/>	EPA 300.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrite as N	<input checked="" type="checkbox"/>	EPA 300.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orthophosphate as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl-Nitrogen as N	<input checked="" type="checkbox"/>	SM 4500-NH3 B, D 1997	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phosphorus as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Misc. Analytes					
Non-Filterable Residue (TSS)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil and Grease	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Cyanide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phenolics (4-AAP)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name James Henry

Signature

James Henry

Date

7/1/2021

* See Footnote on page 2.



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Company



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Golden, CO 80403
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DMRQA41 Graded Results Report

Study: WP0121 for DMRQA41

Opening Date: January 4, 2021 - Closing Date: February 18, 2021

EPA Lab ID: CA00065
NPDES Permit ID: CA0024490
Permittee Name: MCKINLEYVILLE COMM SERV DIST

Laboratory: North Coast Laboratories, Ltd.
5680 West End Road
Arcata, CA 95521
UNITED STATES
Mr. Jeff Schindler, QA Officer
7078224649

Demand (PT-DEM-WP)							Lot #: 8218-07	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1530	BOD	20135286	SM 5210 B-2011	mg/L	75.1	87.0	38.0 - 125	Acceptable
1555	CBOD	20135266	SM 5210 B-2011	mg/L	75.1	79.3	29.5 - 125	Acceptable
Minerals 1 (PT-MIN1-WP)							Lot #: 8218-08	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1505	Total Alkalinity(as CaCO3)	20045618	SM 2320 B-2011	mg/L	197	194	167 - 227	Acceptable
Minerals 2 - Hardness (PT-MIN2-WP)							Lot #: 8218-102	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1755	Total Hardness (as CaCO3)	20046611	SM 2340 B-2011	mg/L	253	269	215 - 291	Acceptable
Solids (PT-SOL-WP)							Lot #: 8218-09	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1955	Total Dissolved Solids at 180° (TFR)	20050413	SM 2540 C-2011	mg/L	668	665	601 - 735	Acceptable
Nutrients 1 - Simple (PT-NUT1-WP)							Lot #: 8218-10	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1515	Ammonia as N	20109415	SM 4500-NH3 D 2011	mg/L	10.5	10.8	8.38 - 12.6	Acceptable
1810	Nitrate as N	10053006	EPA 300.0	mg/L	10.9	11.9	8.99 - 12.7	Acceptable
Nutrients 2 - Complex (PT-NUT2-WP)							Lot #: 8218-11	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1795	Total Kjeldahl Nitrogen (TKN)	20109415	SM 4500-NH3 D 2011	mg/L	12.3	11.6	9.05 - 15.2	Acceptable



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DMRQA41 Graded Results Report

Study: WP0121 for DMRQA41

Opening Date: January 4, 2021 - Closing Date: February 18, 2021

EPA Lab ID: CA00065

Laboratory: North Coast Laboratories, Ltd.
5660 West End Road
Arcata, CA 95521
UNITED STATES
Mr. Jeff Schindler, QA Officer
7078224649

NPDES Permit ID: CA0024490

Permittee Name: MCKINLEYVILLE COMM SERV DIST

Nutrients 3 - Nitrite (PT-NUT3-WP)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1840	Nitrite as N	10053006	EPA 300.0	mg/L	1.86	1.79	1.57 - 2.14	Acceptable

Lot #: 8218-69

Chemistry/Microbiology Analyte Checklist

DMR-QA Study 41

Analyte Test	Test Required	Method Number Used (optional)	Laboratory's Graded Result		Analyte determined by state-certified lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology					
<i>E. coli</i> , MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fecal Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trace Metals					
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimony	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beryllium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, total	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, hexavalent	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cobalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iron	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manganese	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nickel	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selenium	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silver	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thallium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vanadium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zinc	<input checked="" type="checkbox"/>	EPA 1638 1996	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demands					
5-day BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-day Carbonaceous BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minerals					
Alkalinity, total (CaCO ₃)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chloride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluoride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardness, total (CaCO ₃)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific conductance (25°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfate	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Dissolved Solids (180°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients					
Ammonia as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrate as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrite as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orthophosphate as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl-Nitrogen as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phosphorus as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Misc. Analytes					
Non-Filterable Residue (TSS)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil and Grease	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Cyanide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phenolics (4-AAP)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name JAMES HENRY

Signature James Henry

Date 7/8/2021

* See Footnote on page 2.



WP-312 Final Evaluation Report

Josh Kirkpatrick
Quality Assurance Manager
Basic Laboratory, Inc.
2218 Railroad Ave
Redding, CA 96001
(530) 243-7234-204

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

CA00381
B062101
03/09/21
01/19/21 - 03/05/21

A Waters Company

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
WP Trace Metals (cat# 586, lot# P312-500)												
1000	Aluminum	µg/L		3730	3110 - 4230	Not Reported				3790	196	
1005	Antimony	µg/L	95	96.1	61.7 - 128	Acceptable	EPA 6010B 2 1996	2/2/2021	0.229	93.6	5.91	Brittany Light
1010	Arsenic	µg/L	760	783	663 - 892	Acceptable	EPA 6010B 2 1996	2/2/2021	0.266	751	33.2	Brittany Light
1015	Barium	µg/L	1960	1950	1660 - 2240	Acceptable	EPA 6010B 2 1996	2/2/2021	0.0469	1960	86.6	Brittany Light
1020	Beryllium	µg/L	428	419	356 - 482	Acceptable	EPA 6010B 2 1996	2/2/2021	0.717	414	19.3	Brittany Light
1025	Boron	µg/L		893	759 - 1030	Not Reported				887	50.8	
1030	Cadmium	µg/L	715	740	629 - 851	Acceptable	EPA 6010B 2 1996	2/2/2021	0.553	724	21.5	Brittany Light
1040	Chromium	µg/L	192	183	156 - 210	Acceptable	EPA 6010B 2 1996	2/2/2021	0.902	185	7.46	Brittany Light
1050	Cobalt	µg/L	232	228	194 - 262	Acceptable	EPA 6010B 2 1996	2/2/2021	0.290	234	10.3	Brittany Light
1055	Copper	µg/L	908	864	734 - 994	Acceptable	EPA 6010B 2 1996	2/2/2021	1.22	862	37.3	Brittany Light
1070	Iron	µg/L		2700	2300 - 3100	Not Reported				2740	120	
1075	Lead	µg/L	389	384	326 - 442	Acceptable	EPA 6010B 2 1996	2/2/2021	0.0745	388	18.6	Brittany Light
1090	Manganese	µg/L		1070	910 - 230	Not Reported				1080	46.0	
1100	Molybdenum	µg/L	217	219	186 - 250	Acceptable	EPA 6010B 2 1996	2/2/2021	0.0370	217	9.34	Brittany Light
1105	Nickel	µg/L	459	429	372 - 490	Acceptable	EPA 6010B 2 1996	2/2/2021	0.917	439	21.4	Brittany Light
1140	Selenium	µg/L	258	266	226 - 306	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.363	264	15.3	Brittany Light
1150	Silver	µg/L	1901	835	710 - 960	Acceptable	EPA 6010B 2 1996	2/2/2021	1.48	839	41.9	Brittany Light
1160	Strontium	µg/L		356	303 - 409	Not Reported				359	14.8	
1185	Thallium	µg/L	226	230	173 - 262	Acceptable	EPA 6010B 2 1996	2/2/2021	0.545	219	12.6	Brittany Light
1185	Vanadium	µg/L	495	509	433 - 585	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.513	506	21.9	Brittany Light

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study #: WP-312





WP-312 Final Evaluation Report

A Waters Company

Josh Kirkpatrick
Quality Assurance Manager
Basic Laboratory, Inc.
2218 Railroad Ave
Redding, CA 96001
(530) 243-7234-204

EPA ID: CA00381
ERA Customer Number: B062101
Report Issued: 03/09/21
Study Dates: 01/19/21 - 03/05/21

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
<i>WP Trace Metals (cat# 586, lot# P312-500) (Continued)</i>												
1190	Zinc	µg/L	1690	1730	1470 - 1990	Acceptable	EPA 8010B-2, 1996	2/2/2021	-0.355	1720	123	Brittany Light



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's AZLA accreditation. Lab Code 1539.01.

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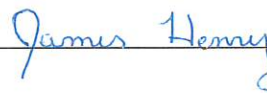
Study # : WP-312

WET Analyte Checklist DMR-QA Study 41

Analyte Number	Organism / Conditions	Endpoint	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab*
				Acceptable	Not Acceptable (Corrective Action Required)	
Test Code 13 (refer to EPA Method 2000.0)						
754	Fathead minnow (<i>Pimephales promelas</i>) - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 14 (refer to EPA Method 2000.0)						
755	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 15 (refer to EPA Method 1000.0)						
756	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC SURVIVAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
808	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
810	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC (ON) GROWTH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 16 (refer to EPA Method 1000.0)						
759	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
812	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
814	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC (ON) GROWTH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 19 (refer to EPA Method 2002.0)						
764	<i>Ceriodaphnia dubia</i> - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 20 (refer to EPA Method 2002.0)						
765	<i>Ceriodaphnia dubia</i> - 20% DMW 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 21 (refer to EPA Method 1002.0)						
766	<i>Ceriodaphnia dubia</i> - MHSF	NOEC SURVIVAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
767	<i>Ceriodaphnia dubia</i> - MHSF	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
768	<i>Ceriodaphnia dubia</i> - MHSF	NOEC REPRODUCTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 22 (refer to EPA Method 1002.0)						
769	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
770	<i>Ceriodaphnia dubia</i> - 20% DMW	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
771	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 32 (refer to EPA Method 2021.0)						
788	<i>Daphnia magna</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 38 (refer to EPA Method 2021.0)						
794	<i>Daphnia pulex</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 42 (refer to EPA Method 2007.0)						
798	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 43 (refer to EPA Method 1007.0)						
799	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
816	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
818	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 44 (refer to EPA Method 2006.0)						
803	Inland silverside (<i>Menidia berylina</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 45 (refer to EPA Method 1006.0)						
824	Inland silverside (<i>Menidia berylina</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
825	Inland silverside (<i>Menidia berylina</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
826	Inland silverside (<i>Menidia berylina</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 46 (refer to EPA Method 2004.0)						
804	Sheepshead minnow (<i>Cyprinodon variegatus</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 47 (refer to EPA Method 1004.0)						
805	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
820	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
822	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name James Henry

Signature



Date 9/7/2021

*See Footnote on page 2.

**Preferred endpoint for DMR-QA performance test reporting.



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October 16, 2020

Ms. Bella Volpatti
Pacific EcoRisk
2250 Cordelia Road
Fairfield, CA 94534
USA

Dear Bella,

Thank you for participating in the DMRQA40-WET DMRQA PT Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you. A final report for your laboratory will be sent to all accrediting agencies you requested at the time of data submittal.

Thank you again for participating in the DMRQA40-WET DMRQA PT Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 303-940-0033.



Report Definitions:

Assigned Value

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation Limits

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC PT FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation

<i>Acceptable</i>	The reported value falls within the Acceptance Limits.
<i>Not Acceptable</i>	The reported value falls outside the Acceptance Limits.
<i>No Evaluation</i>	The reported value is non-numeric and can not be evaluated.
<i>NR</i>	As required by the NELAC standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).

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Final Report - DMRQA PT

Study: DMRQA40-WET

Opening Date: March 20, 2020 - Closing Date: September 18, 2020

Facility: Pacific EcoRisk
2250 Cordelia Road
Fairfield, CA 94534
USA

Contact: Ms. Bella Voipatti, Quality Assurance Manager
707-207-7767

EPA Lab ID: CA01307
NPDES Permit ID:

Fathead Minnow Method 13 (PT-13-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Acute MHSF 25° - LC50	10213602	EPA 2000.0 - Fathead minnow, 48-hr Acute, nonrenewal, MHSF 25deg C Rev.5th Ed 2002	S.U.	38.0	42.0	25.7 - 50.4	Acceptable

Fathead Minnow Method 15 (PT-15-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Chronic MHSF - Survival NOEC	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25deg C 2002	S.U.	50	50	25 - 100	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth IC25 (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25deg C 2002	S.U.	46.1	45.4	25.5 - 66.8	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth NOEC (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25deg C 2002	S.U.	25	25	12.5 - 50	Acceptable

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Ceriodaphnia Method 19 (PT-19-WET)

							Lot #: 8548-19		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3315	Ceriodaphnia Acute-MHSF 25° - LC50	10213646	EPA 2002.0 - Ceriodaphnia dubia, 48-hr Acute, nonrenewal, MHSF, 25°C (FoPT) Rev.5th Ed 2002	S.U.	39.9	36.6	17.3 - 62.4	Acceptable	

Ceriodaphnia Method 21 (PT-21-WET)

							Lot #: 8548-21		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3315	Ceriodaphnia Chronic MHSF - Survival NOEC	10253040	EPA 1002.0 - Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable	
3315	Ceriodaphnia Chronic MHSF - Reproduction IC25	10253040	EPA 1002.0 - Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF, 25°C (FoPT) 2002	S.U.	26.5	28.5	15.1 - 37.9	Acceptable	
3315	Ceriodaphnia Chronic MHSF - Reproduction NOEC	10253040	EPA 1002.0 - Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable	

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Daphnia Method 32 (PT-32-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3350	Daphnia Magna Acute MHSF 25° - LC50	10215415	EPA 2021.0 - Daphnia magna, 48-hr Acute, nonrenewal, MHSF 25deg C Rev.5th Ed 2002	S.U.	58.0	36.0	32.6 - 83.3	Acceptable

Daphnia Method 38 (PT-38-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3355	Daphnia Pulex Acute MHSF 25° - LC50	10215619	EPA 2021.0 - Daphnia pulex, 48-hr Acute, nonrenewal, MHSF 25deg C Rev.5th Ed 2002	S.U.	60.4	54.8	43.8 - 76.9	Acceptable

Mysid Method 42 (PT-42-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3395	Mysid Acute SSW 25° - LC50	10216010	EPA 2007.0 - Mysid, 48-hr Acute, nonrenewal, 40-fathoms SW, 20 deg C, Rev. 5th, Ed. 2002	S.U.	37.6	35.4	<6.25 - 70.2	Acceptable
3395	Mysid Acute SSW 25° - LC50	10216021	EPA 2007.0 - Mysid, 48-hr Acute, nonrenewal, SSW, 25°C (FoPT) Rev.5th Ed 2002	S.U.	37.6	35.4	<6.25 - 70.2	Acceptable

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Mysid Method 43 (PT-43-WET)							Lot #: 8548-43		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3395	Mysid Chronic SSW - Survival NOEC	10254021	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable	
3395	Mysid Chronic SSW - Growth IC25 (ON)	10254021	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	29.6	33.1	25.6 - 33.6	Acceptable	
3395	Mysid Chronic SSW - Growth NOEC (ON)	10254021	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable	
Menidia Method 44 (PT-44-WET)							Lot #: 8548-44		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
3380	Menidia Acute SSW 25° - LC50	10216429	EPA 2006.0 - Inland Silverside, 48-hr Acute, nonrenewal, SSW, 25°C (FoPT) Rev. 5th Ed 2002	S.U.	42.2	50.2	28.8 - 55.6	Acceptable	

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EPA Lab ID: CA01307
NPDES Permit ID:

Menidia Method 45 (PT-45-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3380	Menidia Chronic SSW - Survival NOEC	10253824	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable
3380	Menidia Chronic SSW - Growth IC25 (ON)	10253824	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	30.1	31.6	27.2 - 32.9	Acceptable
3380	Menidia Chronic SSW - Growth NOEC (ON)	10253824	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable

Sheepshead Minnow Method 46 (PT-46-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3345	Sheepshead Minnow Acute SSW 25° - LC50	10216645	EPA 2004.0 - Sheepshead Minnow, 48-hr Acute, nonrenewal, SSW, 25°C (FoPT) Rev.5th Ed 2002	S.U.	25.6	20.3	7.96 - 43.3	Acceptable

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NPDES Permit ID:

Sheepshead Minnow Method 47 (PT-47-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3345	Sheepshead Minnow Chronic SSW - Survival NOEC	10216827	EPA 1004.0 - Sheepshead Minnow, 7-day Chronic, daily renewal, SSW, 25°C (FoPT), 2002	S.U.	25	25	12.5 - 50	Acceptable
3345	Sheepshead Minnow Chronic SSW - Growth IC25 (ON)	10216827	EPA 1004.0 - Sheepshead Minnow, 7-day Chronic, daily renewal, SSW, 25°C (FoPT), 2002	S.U.	31.3	30.0	29.2 - 33.5	Acceptable
3345	Sheepshead Minnow Chronic SSW - Growth NOEC (ON)	10216827	EPA 1004.0 - Sheepshead Minnow, 7-day Chronic, daily renewal, SSW, 25°C (FoPT), 2002	S.U.	25	12.5	12.5 - 50	Acceptable

Lot #: 8548-47