

**The State of
Department**



**Washington
of Ecology**

**Enthalpy Analytical, LLC - San Diego
San Diego, CA**

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective January 1, 2023 and shall expire December 31, 2023.

Witnessed under my hand on January 4, 2023

Rebecca Wood
Lab Accreditation Unit Supervisor

Laboratory ID
C552

WASHINGTON STATE DEPARTMENT OF ECOLOGY

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

SCOPE OF ACCREDITATION

Enthalpy Analytical, LLC - San Diego

San Diego, CA

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. EPA is the U.S. Environmental Protection Agency. SM is "Standard Methods for the Examination of Water and Wastewater." SM refers to EPA approved method versions. ASTM is the American Society for Testing and Materials. USGS is the U.S. Geological Survey. AOAC is the Association of Official Analytical Chemists. Other references are described in notes.

Matrix/Analyte	Method	Notes
Non-Potable Water		
Dendraster excentricus (Echinoderm)	ASTM E1563	10,11
Strongylocentrotus purpuratus (Echinoderm)	ASTM E1563	10,11
Pimephales promelas (Fathead Minnow)	EPA 1000.0 (2002)	2,4,10
Ceriodaphnia dubia (Daphnid)	EPA 1002.0 (2002)	1,4,10
Selenastrum capricornutum (Green Algae)	EPA 1003.0 (2002)	2,4,10
Menidia beryllina (Silverside)	EPA 1006.0 (2002)	2,5,10
Americamysis bahia (Mysid)	EPA 1007.0 (2002)	2,5,10
Pimephales promelas (Fathead Minnow)	EPA 2000.0 (2002)	1,2,10
Ceriodaphnia dubia (Daphnid)	EPA 2002.0 (2002)	1,2,10
Menidia beryllina (Silverside)	EPA 2006.0 (2002)	1,2,10
Americamysis bahia (Mysid)	EPA 2007.0 (2002)	1,2,10,11
Daphnia magna (Daphnid)	EPA 2021.0 (2002)	1,2,10
Atherinops affinis (Topsmelt)	EPA 600/R-95/136 (1995)	2,3,10
Dendraster excentricus (Echinoderm)	EPA 600/R-95/136 (1995)	2,3,10,11
Haliotis rufescens (Red Abalone)	EPA 600/R-95/136 (1995)	2,3,10
Macrocystis pyrifera (Giant Kelp)	EPA 600/R-95/136 (1995)	2,3,10
Mytilus edulis (Bivalve)	EPA 600/R-95/136 (1995)	2,3,10,11
Mytilus galloprovincialis (Bivalve)	EPA 600/R-95/136 (1995)	2,3,10,11
Strongylocentrotus purpuratus (Echinoderm)	EPA 600/R-95/136 (1995)	2,3,10,11
Atherinops affinis (Topsmelt)	EPA 821-R-02-012 (2002)	1,2,10
Hyaella azteca (Amphipod)	EPA 821-R-02-012 (2002)	1,2,10
Dangerous Waste Designation Salmonid	WDOE 80-12 Part A (2009)	9,10
Solid and Chemical Materials		
Mytilus galloprovincialis (Bivalve)	ASTM E1022	10
Ampelisca abdita (Amphipod)	ASTM E1367	10
Eohaustorius estuarius (Amphipod)	ASTM E1367	10

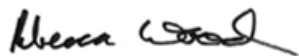
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Matrix/Analyte	Method	Notes
Solid and Chemical Materials		
Leptocheirus plumulosus (Amphipod)	ASTM E1367	10
Rhepoxynius abronius (Amphipod)	ASTM E1367	10
Eisenia fetida (Oligochaete)	ASTM E1676	10
Lumbriculus variegatus (Oligochaete)	ASTM E1688	10
Macoma nasuta (Bivalve)	ASTM E1688	10
Nereis virens (Polychaeta)	ASTM E1688	10
Chironomus dilutus (formerly tentans)(Midge)	ASTM E1706	10
Hyalella azteca (Amphipod)	ASTM E1706	10
Mytilus edulis (Bivalve)	ASTM E724	10,11
Mytilus galloprovincialis (Bivalve)	ASTM E724	10,11
Hyalella azteca (Amphipod)	EPA 100.1 (2000)	6,10
Chironomus dilutus (formerly tentans)(Midge)	EPA 100.2 (2000)	6,10
Lumbriculus variegatus (Oligochaete)	EPA 100.3 (2000)	6,10
Ampelisca abdita (Amphipod)	EPA 100.4 (1994)	7,10
Eohaustorius estuarius (Amphipod))	EPA 100.4 (1994)	7,10
Leptocheirus plumulosus (Amphipod)	EPA 100.4 (1994)	7,10
Rhepoxynius abronius (Amphipod)	EPA 100.4 (1994)	7,10
Chironomus dilutus (formerly tentans)(Midge)	EPA 100.5 (2000)	6,10
Ampelisca abdita (Amphipod)	PSEP (1995)	10
Dendraster excentricus (Echinoderm)	PSEP (1995)	10,11
Eohaustorius estuarius (Amphipod)	PSEP (1995)	10
Mytilus edulis (Bivalve)	PSEP (1995)	10,11
Neanthes arenaceodentata (Polychaete)	PSEP (1995)	10,11
Rhepoxynius abronius (Amphipod)	PSEP (1995)	10
Strongylocentrotus purpuratus (Echinoderm)	PSEP (1995)	10,11
Eisenia fetida (Oligochaete)	WDOE 96-327 (1996)	8,10

Matrix/Analyte	Method	Notes
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Accredited Parameter Note Detail

(1) USEPA. "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms." EPA-821-R-02-012. Fifth Edition. October 2002. (2) Meets requirements of "Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria." Pub No WQ-R-95-80. Rev. Jun. 2016 (3) USEPA. "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms." EPA 600/R-95/136. August 1995. (4) USEPA. "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." EPA-821-R-02-013. Fourth Edition. October 2002. (5) USEPA. "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms." EPA-821-R-02-014. Third Edition. October 2002. (6) USEPA. "Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates." EPA 600/R-99/064. March 2000. (7) USEPA. "Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods." EPA 600/R-94/025. June 1994. (8) WDOE. "Earthworm Bioassay Protocol for Soil Toxicity Screening." WDOE 96-327. 1996. (9) WDOE. "Biological Test Methods for the Designation of Dangerous Waste." WDOE 80-12. (2009) Rev. 2016. (10) Accreditation based in part on recognition of the Lab ORELAP accreditation. (11) Provisional accreditation pending submittal of acceptable corrective action report.



Authentication Signature
Rebecca Wood, Lab Accreditation Unit Supervisor

01/04/2023

Date