SOUTHERN CALIFORNIA EDISON

LUNDY HYDROELECTRIC PROJECT

(FERC PROJECT NO. 1390)



DRAFT LICENSE APPLICATION

VOLUME III

SOUTHERN CALIFORNIA EDISON®

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October 2026

SOUTHERN CALIFORNIA EDISON

Lundy Hydroelectric Project
(FERC Project No. 1390)

Draft License Application
Volume III

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

October 2026

Support from:

Kleinschmidt

LIST OF APPENDICES

Lundy Lake and Mill Creek Water Quality Monitoring (WQ-1) Draft Technical Report

Lundy Lake and Mill Creek Water Temperature Monitoring (WQ-2) Draft Technical Report

Fish Community Survey (AQ-1) Draft Technical Report

Fish Stranding Study (AQ-2) Draft Technical Report

Recreation Use and Needs Assessment (REC-1) Draft Technical Report

Recreation Facilities Condition Assessment (REC-2) Draft Technical Report

Project Lands and Roads Study (LAND-1) Draft Technical Report

SOUTHERN CALIFORNIA EDISON
Lundy Hydroelectric Project
(FERC Project No. 1390)





LUNDY LAKE AND MILL CREEK WATER QUALITY MONITORING (WQ-1)
DRAFT TECHNICAL REPORT

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TABLE OF CONTENTS

Page

1.0 Introduction 1
2.0 Study Goals and Objectives 1
2.1. Study Area 1
3.0 Methods 4
3.1. Reservoir and Stream Water Quality Sampling 4
3.1.1. In Situ Water Quality 6
3.1.2. Analytical Water Quality 6
3.2. Bacteriological Sampling 8
3.3. Fish Tissue Mercury Sampling 9
3.4. Incidental Observations 10
3.5. Study Plan Modifications 10
3.6. Variances to Approved Methods 10
4.0 Study Results 11
4.1. Reservoir and Stream Water Quality 11
4.1.1. Reservoir 11
4.2. Bacteria 26
4.3. Mercury in Fish Tissue 27
4.4. Incidental Observations 28
5.0 References 28

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LIST OF TABLES

Table 3.1-1. Reservoir and Stream Water Quality Sampling Locations and Dates 5

Table 3.1-2. In Situ Water Quality Methods 6

Table 3.1-3. Analytical Parameters, Methods, and Reporting Limits for Water Samples 7

Table 3.2-1. Bacteriological Sampling Locations and Dates 8

Table 3.3-1. Analytical Parameters, Methods, and Reporting Limits for Mercury in Fish Tissue Samples 9

Table 4.1-1. Reservoir Analytical Water Quality Results, 2025 16

Table 4.1-2. Stream In Situ Water Quality, 2025 19

Table 4.1-3. Stream Analytical Water Quality Results—Upstream of Lundy Lake and Mill Creek Bypass Reach, 2025 20

Table 4.1-4. Stream Analytical Water Quality Results—Lower Mill Creek and Downstream of Lundy Powerhouse, 2025 24

Table 4.2-1. Bacteriological Sampling Results, 2025 26

Table 4.3-1. Summary of Mercury in Fish Tissue and Physical Characteristics of Fish Captured in Lundy Lake, 2025 27

LIST OF FIGURES

Figure 2.1-1. Overview of the Project Area and Water Quality Study Sites. 3

Figure 4.1-1. Reservoir In Situ Water Quality Vertical Profiles Measured at Lundy Lake (Site LL-3), April 2025. 13

Figure 4.1-2. Reservoir In Situ Water Quality Vertical Profiles Measured at Lundy Lake (Site LL-3), August 2025 14

Figure 4.1-3. Reservoir In Situ Water Quality Vertical Profiles Measured at Lundy Lake (Site LL-3), October 2025. 15

Figure 4.3-1. Mercury in Individual Fish Tissue by Total Length. 28

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LIST OF APPENDICES

Appendix A Daily Mean Stream Flows
Appendix B Lundy Lake Golden Mussel Vulnerability Assessment
Appendix C Reservoir and Stream Analytical Laboratory Reports
Appendix D In Situ Calibration Logs
Appendix E Analytical Sampling Quality Assurance/Quality Control Results
Appendix F Tabulated Reservoir In Situ Data and Vertical Profiles
Appendix G Bacteria Laboratory Reports
Appendix H Mercury in Fish Tissue Results

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µg/g ww	micrograms per gram wet weight
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter

C

CAM	California Administrative Manual
CDFW	California Department of Fish and Wildlife
cfs	cubic feet per second

E

E. coli	*Escherichia coli*
eDNA	environmental deoxyribonucleic acid

F

FERC	Federal Energy Regulatory Commission
FL	fork length

M

m	meters
MCRD	Mill Creek Return Ditch
MDL	minimum detection limit
mg/L	milligrams per liter
mL	milliliters
mm	millimeters
mmHg	millimeters of mercury
MPN	most probable number

N

NTU	Nephelometric Turbidity Units

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O

OEHHA	Office of Environmental Health Hazard Assessment

P

Project	Lundy Hydroelectric Project, FERC Project No. 1390
PQL	practical quantification limit

Q

QA	quality assurance
QC	quality control

R

RL	reporting limit
RPD	relative percent difference

S

SCE	Southern California Edison
SM	Standard Method
SPD	Study Plan Determination
s.u.	standard unit

T

TL	total length

U

USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey

W

WQ-1	Water Quality Study

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct a Water Quality Study (WQ-1) to evaluate current water quality in the Project reservoir (Lundy Lake) and Project-affected stream reaches for the Lundy Hydroelectric Project (FERC Project No. 1390). FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the study with modifications (SCE, 2024).

WQ-1 was divided into three components: (1) reservoir and stream water quality sampling, (2) bacteriological sampling, and (3) fish tissue mercury sampling (SCE,2024). All components of the study were implemented in 2025. This report provides the results from reservoir and stream water quality sampling conducted between April 29 and October 21, 2025; weekly bacteriological sampling events conducted between August 7 and September 19, 2025; and fish tissue mercury sampling conducted on August 25 and 26, 2025. Consistent with FERC's SPD, because the 2026 water year forecast[1] on April 1, 2026, was different from the 2025 water year, a second year of reservoir and stream water quality sampling and bacteriological sampling will occur beginning on May 1, 2026, and continuing into October 2026. Year 2 data will be filed with the Updated Study Report.

2.0 STUDY GOALS AND OBJECTIVES

The objective of WQ-1 was to collect additional water quality data to characterize conditions in Lundy Lake and Project-affected stream reaches of Mill Creek. These data were used to assess consistency with water quality objectives in the Lahontan Region Water Quality Control Board Basin Plan (LRWQCB, 2019), California statewide numeric mercury objectives (SWRCB, 2017), and Office of Environmental Health Hazard Assessment (OEHHA) screening values (OEHHA, 2022). These data were also used to evaluate potential effects of the Project on water quality in Lundy Lake and Mill Creek downstream of Lundy Dam and will be discussed in the Draft License Application.

2.1. STUDY AREA

The study area includes Lundy Lake, Mill Creek and South Fork Mill Creek upstream of Lundy Lake, Mill Creek from Lundy Dam to the Mill Creek Return Ditch (MCRD) outlet (Mill Creek Bypass Reach), Mill Creek between the MCRD outlet and Mono Lake (Lower Mill Creek), Lundy Powerhouse Tailrace, and the MCRD (Figure 2.1-1). Study sites for

[1] The 2026 water year was determined using the adjacent Lee Vining Project (FERC Project No. 1388) forecast and calculated from the most recent 30 years of precipitation data measured at the Dana Meadows Weather Station. Dry water years are defined as those in which the water availability as of April 1 is representative of the water available on April 1 in the lowest 30 percent of the previous 30 years. Wet water years are defined as those in which the water availability as of April 1 is representative of the water available on April 1 in the highest 30 percent of the previous 30 years. Normal water years are defined as those that cannot be classified as either dry or wet, per the above definitions. The water year in 2025 was categorized as normal and the water year in 2026 was categorized as dry on April 1, 2026.

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the reservoir and stream water quality sampling, bacteriological sampling, and fish tissue mercury sampling study components are described in Section 3.0, *Methods*.

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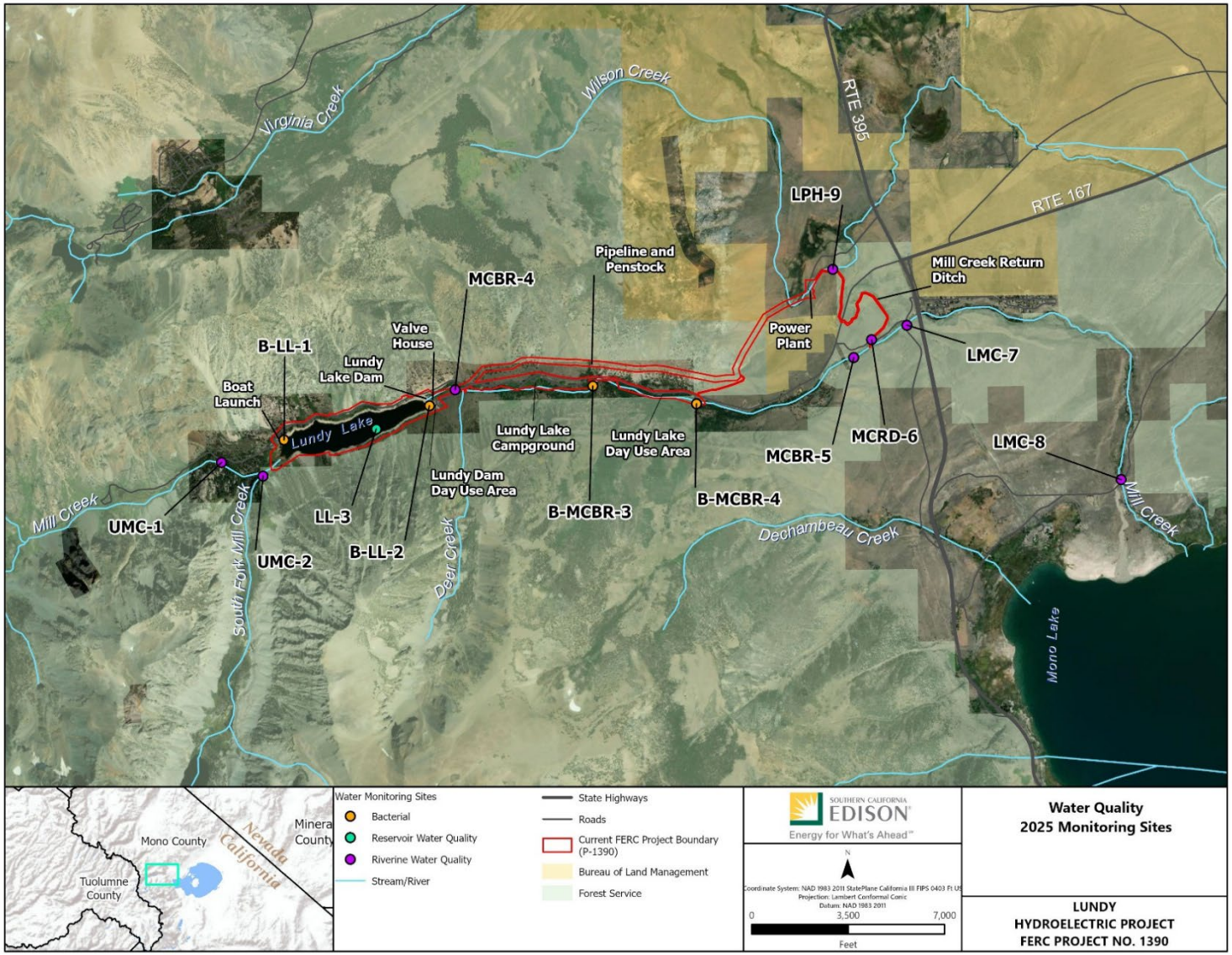


Figure 2.1-1. Overview of the Project Area and Water Quality Study Sites.

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3.0 METHODS

Study implementation generally followed the methods described in the WQ-1 Study Plan (SCE, 2024), with exceptions described in Section 3.5, *Study Plan Modifications*, and Section 3.6, *Variances to Approved Methods*.

3.1. RESERVOIR AND STREAM WATER QUALITY SAMPLING

Three seasonal sampling events were conducted to measure key indicators of water quality at study sites within the study area. A total of nine sites were sampled — one reservoir and eight stream sites (Figure 2.1-1). Water quality sampling site identification, site description, location (latitude and longitude), and sampling dates are provided in Table 3.1-1.

Sampling occurred during spring (April 29 and 30, 2025) to characterize seasonal runoff, summer (August 18 and 19, 2025) to characterize low flow and maximum reservoir stratification, and fall (October 20 and 21, 2025) to characterize reservoir turnover and pre-winter conditions. To characterize potential effects of the Lundy Powerhouse and MCRD operations on Mill Creek water quality, two additional sampling events were conducted during periods when the Lundy Powerhouse outflow was released into the MCRD[2] (June 9 and July 15, 2025) at three stream sites: Mill Creek upstream and downstream of the confluence with the MCRD (Site MCBR-5 and Site LMC-7, respectively), and MCRD upstream of the confluence with Mill Creek (Site MCRD-6).

At each site, in situ water quality (temperature, dissolved oxygen, pH, specific conductance, and turbidity) was measured and surface water grab samples were collected for subsequent laboratory analysis. Additionally, a vertical profile of in situ parameters was collected at Lundy Lake (Site LL-3) during each sampling event.

[2] MCRD was operating from approximately May 16 to July 20, 2025, and August 1 to 19, 2025.

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Table 3.1-1. Reservoir and Stream Water Quality Sampling Locations and Dates

Site Description	Stream Reach	Site ID	Location Coordinates[a] (decimal degrees)		Sample Date (2025)
			Latitude	Longitude	
Reservoir Site					
Lundy Lake	NA	LL-3	38.029258	-119.227235	4/30, 8/18, 10/21[b]
Stream Sites					
Mill Creek upstream of Lundy Lake and the confluence with South Fork Mill Creek	Mill Creek Unimpaired	UMC-1	38.026128	-119.246765	4/29, 8/19, 10/20
South Fork Mill Creek upstream of Lundy Lake and the confluence with Mill Creek	South Fork Mill Creek Unimpaired	UMC-2	38.024740	-119.241557	4/29, 8/19, 10/20
Mill Creek immediately downstream of Lundy Lake	Mill Creek Below Lundy Lake	MCBR-4	38.033046	-119.217218	4/29, 8/19, 10/20
Mill Creek upstream of the confluence with the Mill Creek Return Ditch	Mill Creek Below Lundy Lake	MCBR-5	38.035697	-119.166930	4/29, 6/9, 7/15, 8/19, 10/20
Mill Creek Return Ditch upstream of the confluence with Mill Creek	Mill Creek Return Ditch	MCRD-6	38.037452	-119.164651	6/9, 7/15, 8/19
Mill Creek downstream of the confluence with the Mill Creek Return Ditch at the old U.S. Highway 395 Bridge[c]	Lower Mill Creek	LMC-7	38.038858	-119.160189	6/9, 7/15, 8/19
Mill Creek between U.S. Highway 395 and Mono Lake	Lower Mill Creek	LMC-8	38.023166	-119.133456	4/29, 8/19, 10/20
Lundy Powerhouse Tailrace	Lundy Powerhouse Tailrace	LPH-9	38.044527	-119.169414	4/29, 8/19, 10/20

MCRD = Mill Creek Return Ditch; NA = not applicable
Note:
[a] Datum: World Geodetic System 84
[b] Supplemental in situ vertical profiles were collected in Lundy Lake during monitoring for invasive mussels on July 15, August 29, and September 18, 2025.
[b] Mill Creek downstream of the confluence with MCRD (Site LMC-7) was not sampled during the spring and fall when there was no outflow to the MCRD because of the proximity to the site upstream of MCRD (Site MCBR-5).

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3.1.1. In Situ Water Quality

In situ water temperature, dissolved oxygen (concentration and percent saturation), pH, specific conductance, and turbidity were measured using a multi-parameter water quality sonde (YSI EXO2, Yellow Springs Instruments). Quality assurance and quality control (QA/QC) activities included pre- and post-sampling calibration checks of the water quality sonde, following the manufacturer instructions, conducted each day of sampling or as appropriate for each sensor. Reservoir vertical profiles of in situ water quality were collected at 1-meter intervals near the location of maximum reservoir depth. A pre-Project topographic map and a sonar depth finder were used to locate the deepest area in Lundy Lake approximately 600 meters west of Lundy Dam (Site LL-3; Figure 2.1-1). Stream in situ measurements were collected at a location that provided representative, homogeneous water quality conditions (Wagner et al., 2006). Table 3.1-2 identifies in situ parameters, methods, and method detection limits that were evaluated.

Table 3.1-2. In Situ Water Quality Methods

Parameter	Method	Method Detection Limit
Water temperature	USEPA 170.1	0.1°C
Dissolved oxygen	SM 4500-O	0.1 mg/L
pH	SM 4500-H	0.1 standard unit
Specific conductance	SM 2510 A	0.1 µS/cm
Turbidity	SM 2130 B	0.1 NTU

µS/cm = microsiemens per centimeter; °C = degrees Celsius; mg/L = milligrams per liter; NTU = nephelometric turbidity unit; SM = Standard Method; USEPA = U.S. Environmental Protection Agency

3.1.2. Analytical Water Quality

Surface water grab samples were collected simultaneously with in situ measurements described in Section 3.1.1, *In Situ Water Quality*.

Reservoir water grab samples were collected at two depths: (1) a subsurface grab sample collected at an approximately 0.5-meter depth and (2) a grab sample collected with a Van Dorn bottle at approximately 0.5 to 1 meter above the bottom. Stream grab samples were collected from a well-mixed area of the stream just below the water surface. Clean ambient water sampling techniques as prescribed by U.S. Environmental Protection Agency (USEPA) Method 1669 were used for trace metal collection, including handling and analysis of all metals in water samples (USEPA, 1996). To ensure sampling results are representative of site conditions, QA procedures included collection of one field blank, one equipment blank, and one field duplicate during water quality sampling events. Water used for field blanks was a commercially available distilled water for all analytes, except trace metal analytes which were prepared using laboratory-supplied reagent grade deionized water.

All surface water grab samples were placed in a laboratory-supplied container, labeled, preserved, and stored on ice until delivered to a state-certified water quality laboratory

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(California Laboratory Services, Rancho Cordova, CA; McCampbell Analytical, Inc., Pittsburg, CA). All water samples were analyzed for general chemistry, nutrients, productivity, and metals according to methods and target reporting limits included in Table 3.1-3. Additionally, reservoir surface water grab samples also included analysis for oil and grease. A chain-of-custody record was maintained for each sample container.

Table 3.1-3. Analytical Parameters, Methods, and Reporting Limits for Water Samples

Parameter	Laboratory Method	Reporting Limit or PQL
General Chemistry and Minerals		
Calcium	USEPA 200.7	1.0 mg/L
Chloride	USEPA 300.0	0.50 mg/L
Hardness (as calcium carbonate)	USEPA 200.7	5.0 mg/L
Magnesium	USEPA 200.7	1.0 mg/L
Dissolved organic carbon	SM 5310 B	1.0 mg/L
Total organic carbon	SM 5310 B	1.0 mg/L
Potassium	USEPA 200.7	1.0 mg/L
Sodium	USEPA 200.7	1.0 mg/L
Sulfate as SO_4	USEPA 300.0	0.50 mg/L
Total alkalinity	SM 2320 B	5 mg/L
Total dissolved solids	SM 2540 C	10 mg/L
Total suspended solids	SM 2540 D	2.5 mg/L
Nutrients and Productivity		
Ammonia as N	SM 4500-NH3F2011	0.1 mg/L
Nitrate + nitrite as N	USEPA 300.0	0.4 mg/L
Orthophosphate as PO_4	SM 4500-PE	0.15 mg/L
Total Kjeldahl nitrogen	SM 4500-NH3F-2011	0.2 mg/L
Total phosphorous as P	SM 4500-PE	0.05 mg/L
Chlorophyll-*a*	SM 10200H	5 µg/L
Metals and Oil and Grease		
CAM 17 metals (Title 22 metals)[a]	USEPA 200.8; USEPA 245.1	0.5–20 µg/L
Oil and grease[b]	USEPA 1664 B	5.0 mg/L
Bacteria		
Escherichia coli	SM 9223	1.0 MPN/100 mL
Fecal coliform	SM 9221	1.8 MPN/100 mL

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Parameter	Laboratory Method	Reporting Limit or PQL
Total coliform	SM 9223	1.0 MPN/100 mL

µg/L= micrograms per liter; CAM = California Administrative Manual; mg/L = milligrams per liter; mL=milliliters; MPN = most probable number; PQL = practical quantification limit; SM = Standard Methods; USEPA = U.S. Environmental Protection Agency

Notes:

[a] CAM 17 metals, and associated reporting limits, include total and dissolved metals: antimony (6.0 µg/L), arsenic (2.0 µg/L), barium (20 µg/L), beryllium (1.0 µg/L), cadmium (0.50 µg/L), chromium (1.0 µg/L), cobalt (2.0 µg/L), copper (2.0 µg/L), lead (5.0 µg/L), mercury (0.20 µg/L), molybdenum (2.0 µg/L), nickel (2.0 µg/L), selenium (5.0 µg/L), silver (0.50 µg/L), thallium (1.0 µg/L), vanadium (3.0 µg/L), and zinc (10 µg/L).

[b] Oil and grease were analyzed in samples collected from the reservoir surface water only.

3.2. BACTERIOLOGICAL SAMPLING

Bacteriological sampling occurred at four recreation sites—two reservoir sites and two stream sites (Figure 2.1-1). Water quality sampling site identification, site description, location (latitude and longitude), and sampling dates are provided in Table 3.2-1.

Surface grab samples were collected from Lundy Lake adjacent to the boat launch and Lundy Lake Dam Day Use Area. Samples were also collected from Mill Creek downstream of the Lundy Lake Dam Campground and Lundy Lake Day Use Area (Figure 2.1-1). Samples were collected weekly for 7 consecutive weeks surrounding Labor Day (August 7 to September 19, 2025) (Table 3.2-1). To minimize the potential for inadvertent sample contamination, grab samples were collected in 250-mL laboratory-supplied, sterilized bottles. A chain-of-custody record was maintained for each sample container.

Table 3.2-1. Bacteriological Sampling Locations and Dates

Site Description	Site ID	Location Coordinates[a] (decimal degrees)		Sample Date (2025)
		Latitude	Longitude	
Reservoir Sites				
Lundy Lake near the boat launch	B-LL-1	38.028292°	-119.238855°	8/7, 8/13, 8/19, 8/28, 9/4, 9/11, 9/19
Lundy Lake Dam Day Use Area	B-LL-2	38.031489°	-119.220498°	
Stream Sites				
Lundy Campground on Mill Creek	B-MCBR-3	38.033239°	-119.199866°	8/7, 8/13, 8/19, 8/28, 9/4, 9/11, 9/19
Lundy Day Use Area on Mill Creek	B-MCBR-4	38.031332°	-119.186835°	

ID = identification

Notes:

[a] Datum: World Geodetic System 84

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Immediately after collection, samples were placed on ice and delivered to a state-certified water quality laboratory (California Laboratory Services, Rancho Cordova, CA). Samples were analyzed for *Escherichia coli (E. coli*), total coliform, and fecal coliform. Laboratory analysis was completed following the methods and reporting limits provided in Table 3.1-3.

3.3. FISH TISSUE MERCURY SAMPLING

Fish tissue sample collection for mercury analysis occurred in Lundy Lake during reservoir fish surveys as part of AQ-1 Fish Community Survey (SCE, 2026a) in accordance with OEHHA requirements for development of fish consumption advisories and for comparability to California statewide numeric mercury objectives (i.e., Sport Fish) (SWRCB, 2017; OEHHA, 2022). Target species in Lundy Lake included trophic level[3] 3 (rainbow trout [*Oncorhynchus mykiss*] and brook trout [*Salvelinus fontinalis*]) and trophic level 4 (brown trout [*Salmo trutta*]) fish. Trophic level classifications were based on the following total lengths: rainbow trout trophic level 3 fish were within 150 to 500 millimeters, brown trout trophic level 4 fish were within 200 to 500 millimeters, and brown trout trophic level 3 fish were less than 200 millimeters (SWRCB, 2017). Up to nine fish of each species were collected in accordance with OEHHA requirements for development of fish consumption advisories and for comparability to California statewide numeric mercury objectives (i.e., Sport Fish) (SWRCB, 2017; OEHHA, 2022). Physical characteristics were recorded for each individual fish including weight, total length, fork length, and presence of any physical abnormalities. Each fish was individually wrapped in aluminum foil, placed in a labeled zipper-closure bag, and placed in a freezer after collection. After transmittal to the analytical laboratory (San Jose State University Research Foundation, Marine Pollution Studies Lab, San Jose, CA), samples were stored in an ultra-cold freezer at -20 degrees Celsius (°C) until processing.

Fish tissue samples were analyzed as individual samples. Fish tissue samples were processed by removing skin from an area above the lateral line and then extracting a 9- to 13-gram tissue "plug." Samples were weighed for percent moisture analysis and analyzed for total mercury (Table 3.3-1), as a proxy for methylmercury in fish.

Table 3.3-1. Analytical Parameters, Methods, and Reporting Limits for Mercury in Fish Tissue Samples

Parameter	Laboratory Method	Target Reporting Limit
Total mercury	USEPA 7473	0.030 µg/g ww

µg/g ww = micrograms per gram wet weight; USEPA = U.S. Environmental Protection Agency

[3] Freshwater trophic level classifications as described in SWRCB (2017). Trophic level 3 fish consume mainly zooplankton; benthic invertebrates; and small, phytoplankton-dependent fish. Trophic level 4 fish consume trophic level 3 fish and other aquatic organisms.

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3.4. INCIDENTAL OBSERVATIONS

Incidental observations of special-status species or aquatic invasive species (e.g., Didymo [*Didymosphenia geminata*) were recorded (including location information) and reported in the *Lundy Lake and Mill Creek Water Temperature Monitoring (WQ-2) Draft Technical Report* (SCE, 2026b).

3.5. STUDY PLAN MODIFICATIONS

SCE is not proposing any modifications to WQ-1 as approved by FERC in its SPD (FERC, 2025).

3.6. VARIANCES TO APPROVED METHODS

SCE encountered the following variances when implementing the WQ-1 Study Plan as approved by FERC in its SPD (FERC, 2025):

- In response to a comment received by the California Department of Fish and Wildlife (CDFW) (SCE, 2026c) on the Initial Study Report (SCE, 2026d), daily mean stream flows for Mill Creek and MCRD for the 2025 in situ sampling events are provided in Appendix A of this technical report.

- Three seasonal sampling events to characterize the potential effects of return flows upon Mill Creek were included in the WQ-1 Study Plan. During the spring and fall sampling events, no water was released from the Lundy Powerhouse into the MCRD. Two additional sampling events were conducted during June and July 2025 at three stream sites: Mill Creek upstream (Site MCBR-5) and downstream (Site LMC-7) of the confluence with the MCRD, and the MCRD upstream of the confluence with Mill Creek (Site MCRD-6) to characterize the potential effects of return flows upon Mill Creek.

- A site in the MCRD was included to characterize outflow conditions during seasonal sampling events in the WQ-1 Study Plan. An additional stream water quality sampling site at the Lundy Powerhouse tailrace (Site LPH-9) was added to the seasonal sampling events because water was not released into the MCRD during two seasonal sampling events (spring and summer).

- To ensure sampling results are representative of site conditions, QA procedures in the WQ-1 Study Plan included collection of one field duplicate during each water quality sampling event (spring, summer, fall). A duplicate grab sample was not collected during one reservoir and stream water quality sampling event in summer (August).

- All water samples were analyzed for chlorophyll-*a.* Of the 24 chlorophyll-*a* samples collected during the spring and summer seasonal water quality sampling events, 18 samples were analyzed outside of hold time due to laboratory processing delays. Additional chlorophyll-*a* samples were collected in September 2025 and analyzed within the hold time. Chlorophyll-*a* samples collected during the fall sampling event in October 2025 were analyzed within the hold time.

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- In response to increasing CDFW's concerns regarding the potential spread of invasive golden mussels (*Limnoperna fortunei*) throughout California, SCE collected additional water quality data—including continuous water temperature, in situ water quality data, calcium, and alkalinity—as well as environmental deoxyribonucleic acid (eDNA) samples from Lundy Lake. The vulnerability of Lundy Lake to the establishment of golden mussels was evaluated based on limnological parameters and eDNA results. Details on methods, results, and analysis associated with this study variance are provided in Appendix B. SCE consulted with CDFW about the variance on the following dates:

  - June 17, 2025: SCE sent a memorandum to CDFW (Nick Buckmaster) that included the proposed modifications to the approved WQ-1 Study Plan and a request for concurrence.

  - June 18, 2025: CDFW (Nick Buckmaster) noted there were no specific comments he had at the time.

  - June 30, 2025CDFW (Graham Meese) provided comments on the memorandum to SCE.

  - July 23, 2025, SCE responded to CDFW's comments.

4.0 STUDY RESULTS

4.1. RESERVOIR AND STREAM WATER QUALITY

Water quality monitoring results for the spring (April), summer (August), and fall (October) reservoir sampling events are summarized in Section 4.1.1. Monitoring results for the three seasonal stream sampling events and two additional sampling events when water was released from Lundy Powerhouse into the MCRD (June and July) are summarized in Section 4.1.2. Analytical laboratory results for reservoir and stream water quality sampling are provided in Appendix C.

Sampling conducted during 2025 adhered to standard methods (Table 3.3-1) and QA/QC protocol criteria (for water quality sonde calibration and post-field checks, field blanks, equipment blanks, and field duplicates) (SCE, 2024). In situ and analytical data that were outside the QA/QC limits (e.g., samples that exceeded the recommended hold times, analytes that were found in the associated blanks) were retained but labeled with the QA qualifier. In situ calibration logs for water quality instruments are included in Appendix D. Field blank, equipment blank, and field duplicate sample results are included in Appendix E.

4.1.1. RESERVOIR

4.1.1.1. In Situ Water Quality Profile Measurements

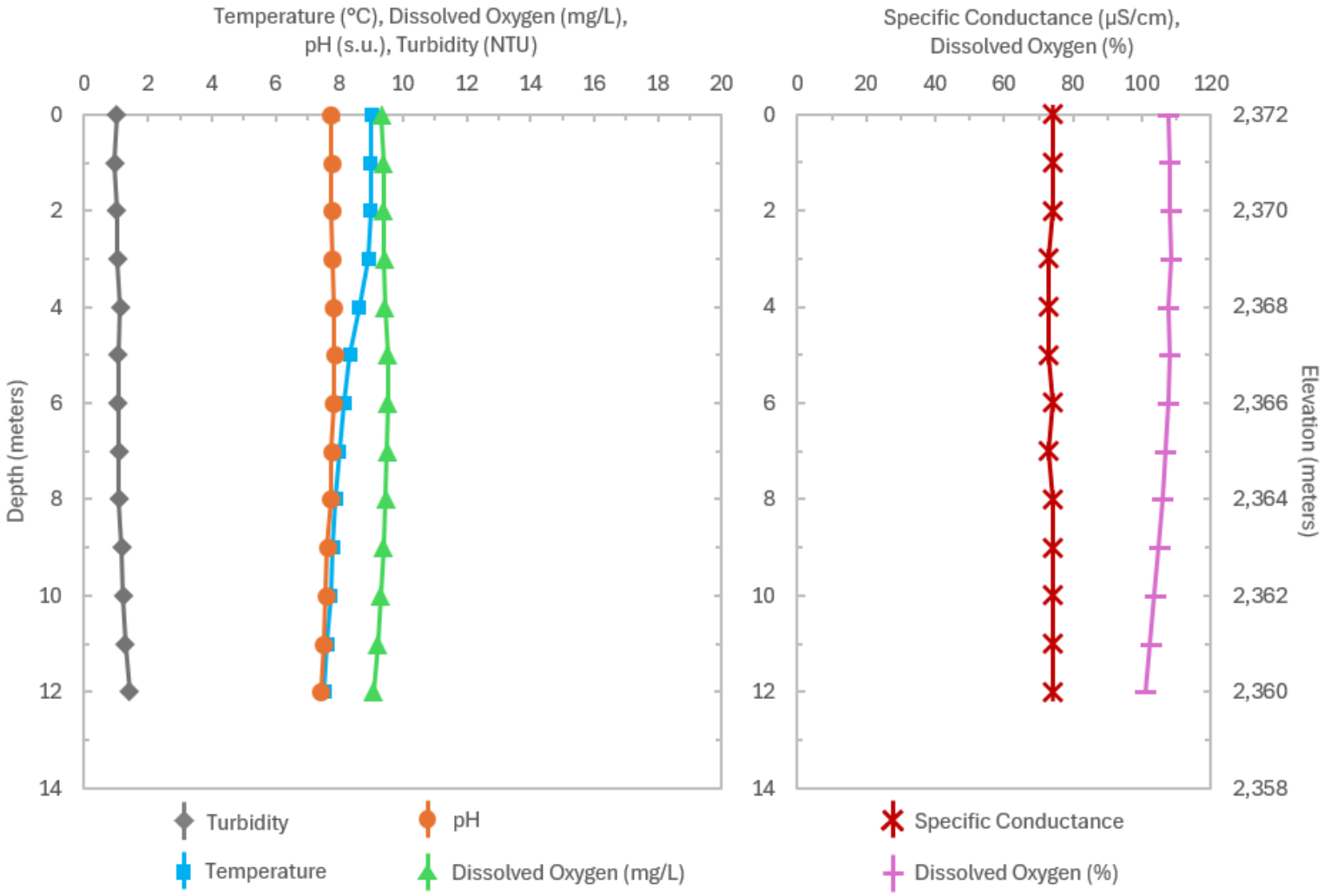
In situ water quality in Lundy Lake exhibited expected seasonal variability—uniform water temperatures and water quality indicating a mixed water column during April 2025

(spring), a thermally stratified water column during August 2025 (summer), and a return to uniform water quality conditions after reservoir destratification during October 2025 (fall) (Figure 4.1-1, Figure 4.1-2, and Figure 4.1-3). During April, water temperatures were cold (7.5–9.0°C), and dissolved oxygen measurements were high (9.1–9.5 milligrams per liter [mg/L]; 101–108 percent saturation) throughout the water column (Figure 4.1-1). During August, Lundy Lake exhibited thermal and chemical stratification with warmer temperatures (16.8–18.1°C) and higher dissolved oxygen (7.5–7.8 mg/L; 106–107 percent) in the epilimnion and cooler waters (11.4–14.8°C) with lower dissolved oxygen (2.6–8.0 mg/L; 32–105 percent) in the hypolimnion (Figure 4.1-2). Lundy Lake was sampled after fall mixing. During October, cold water (8.9–10.5°C) and high dissolved oxygen levels (8.0–8.4 mg/L; 92–99 percent) were observed throughout the water column (Figure 4.1-3). During all seasonal sampling events, Lundy Lake exhibited low turbidity (0.1–1.4 Nephelometric Turbidity Units [NTU]), low specific conductance (60–74 microsiemens per centimeter [µS/cm]), and nearly neutral pH (6.3–7.8 standard units [s.u.]) throughout the water column. Tabulated in situ water quality data from reservoir profiles and supplemental in situ water quality profiles collected on July 15, August 29, September 10, and September 18, 2025, are included in Appendix F.

4.1.1.2. Analytical Water Quality

General water quality in Lundy Lake waters was characterized by low turbidity, low total suspended solids, and low-to-moderate buffering capacity to pH changes (i.e., low total alkalinity, low hardness, and low-to-moderate concentrations of dissolved minerals) (Table 4.1-1). Nutrient concentrations were less than or near to laboratory reporting limits and chlorophyll-*a* (a proxy for productivity) was low (less than or equal to 10 mg/L) (Table 4.1-1). Trace metal concentrations were low; concentrations were similar or less than reporting limits with a few exceptions (i.e., arsenic and chromium) (Table 4.1-1). Oil and grease were not detected in samples collected near the surface of Lundy Lake.

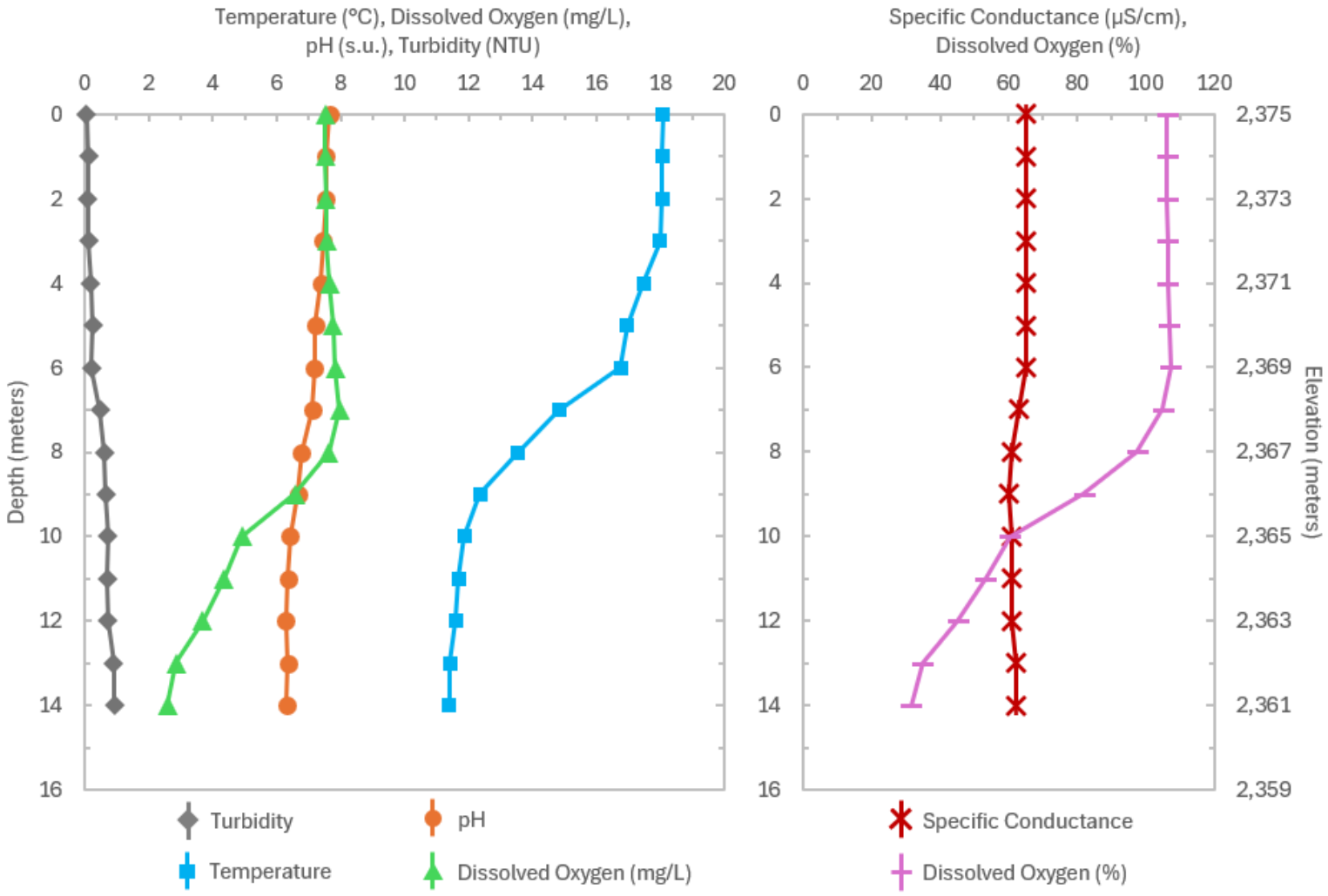
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% = percent; µS/cm = microsiemens per centimeter; °C = degrees Celsius; mg/L = milligrams per liter; NTU = Nephelometric Turbidity Unit; s.u. = standard unit

Figure 4.1-1. Reservoir In Situ Water Quality Vertical Profiles Measured at Lundy Lake (Site LL-3), April 2025.

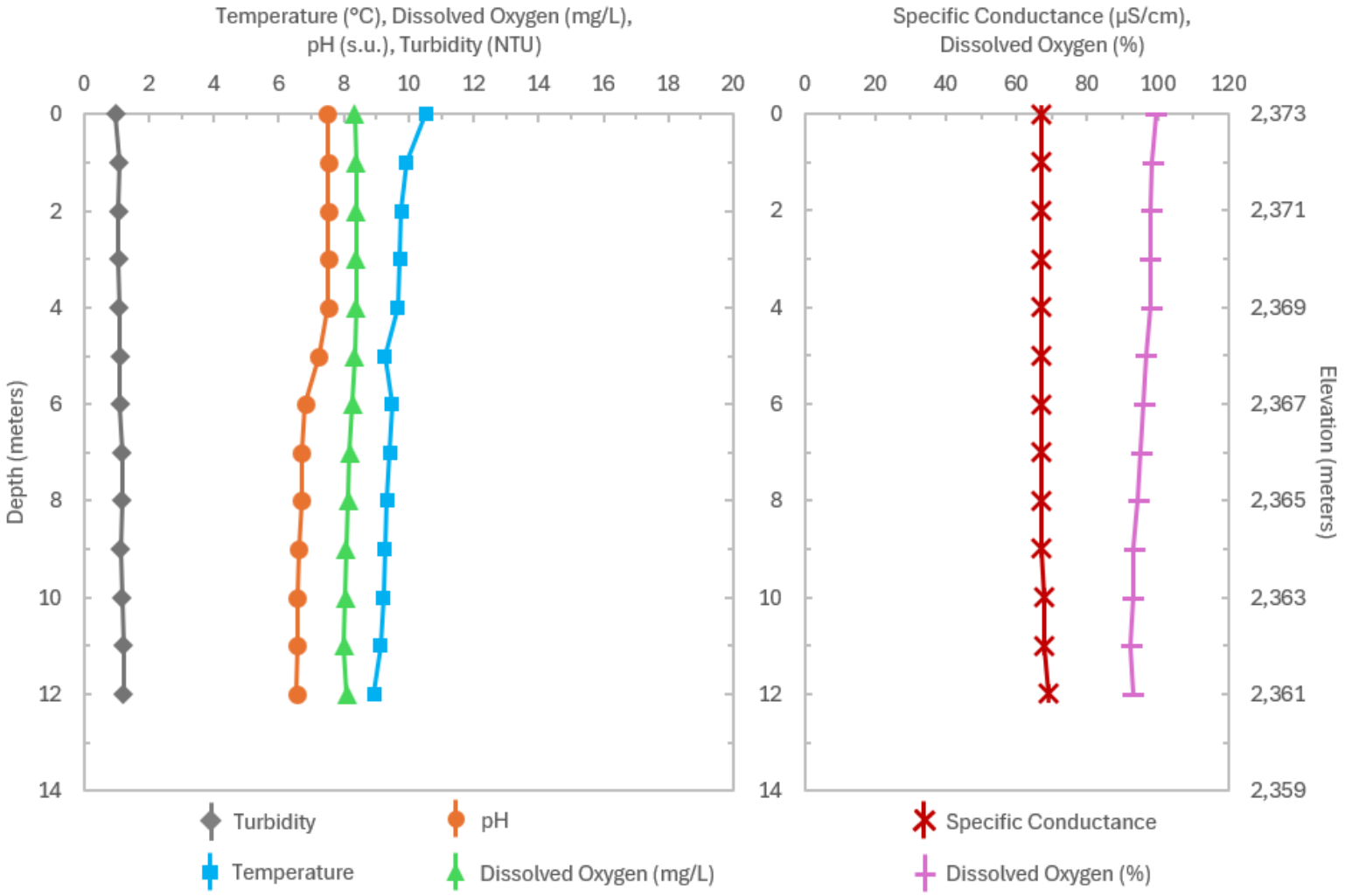
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% = percent; µS/cm = microsiemens per centimeter; °C = degrees Celsius; mg/L = milligrams per liter; NTU = Nephelometric Turbidity Unit; s.u. = standard unit

Figure 4.1-2. Reservoir In Situ Water Quality Vertical Profiles Measured at Lundy Lake (Site LL-3), August 2025.

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% = percent; µS/cm = microsiemens per centimeter; °C = degrees Celsius; mg/L = milligrams per liter; NTU = Nephelometric Turbidity Unit; s.u. = standard unit

Figure 4.1-3. Reservoir In Situ Water Quality Vertical Profiles Measured at Lundy Lake (Site LL-3), October 2025.

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Table 4.1-1. Reservoir Analytical Water Quality Results, 2025

Parameter (unit)	Lundy Lake (Site LL-3)					
	Surface	Bottom	Surface	Bottom	Surface	Bottom
Date (2025)	**4/30**		**8/18[A]**		**10/21**	
General Chemistry and Minerals						
Calcium (mg/L)	12	11[E]	10	9.7	10	9.9
Chloride (mg/L)	0.65	0.57[E]	0.40[J]	0.42[E,J]	0.45[J]	1.4[E]
Magnesium (mg/L)	0.55[J]	0.50[J]	0.43[J]	0.40[J]	0.44[J]	0.42[J]
Total organic carbon, dissolved (mg/L)	<0.54	0.66[J]	<0.54	<0.54	<0.54	<0.54[E]
Total organic carbon (mg/L)	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54[E]
Potassium (mg/L)	0.84[J]	0.87[J]	0.78[J]	0.75[J]	0.88[J]	0.86[J]
Sodium (mg/L)	1.9	1.8	1.5	1.3[E]	1.7	1.6
Sulfate as SO_4 (mg/L)	14	15	13	11[E]	15	15[E]
Hardness as calcium carbonate (mg/L)	33	30	27	26	28	26
Total alkalinity (mg/L)	21	20	17	16	18	16
Total dissolved solids (mg/L)	58	53[E]	51	49	56	55
Total suspended solids (mg/L)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Nutrients and Productivity						
Ammonia as N (mg/L)	<0.025	<0.025	<0.025	0.045[J]	0.099[J]	<0.025
Nitrate+nitrite as N (mg/L)	<0.055	<0.055	<0.055	0.055	<0.055	<0.055
Orthophosphate as PO_4 (mg/L)	<0.0051	<0.0051	<0.0051	<0.0051	0.071[J]	0.079[E,J]
Total Kjeldahl Nitrogen (mg/L)	0.084[J]	0.11[E, J]	0.15[J]	0.092[E, J]	0.18[J]	0.32[E]
Total Phosphorus as P (mg/L)	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Chlorophyll-*a* (µg/L)	10[H]	7.5[H]	<5.0[H] (<5.0)[A]	7.6[H] (<5.0)[A]	<5.0	<5.0
Metals						
Antimony (µg/L)	<0.34	<0.34	<0.34	0.67[J]	<0.34	<0.34
Arsenic (µg/L)	3.4	3.7[E]	5.0	3.6[E]	5.3	4.6
Barium (µg/L)	9.7[J]	9.4[J]	7.7[J]	9.2[J]	7.3[J,R]	7.1[J]

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Parameter (unit)	Lundy Lake (Site LL-3)					
	Surface	Bottom	Surface	Bottom	Surface	Bottom
Date (2025)	**4/30**		**8/18[A]**		**10/21**	
Beryllium (µg/L)	<0.31	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31
Cadmium (µg/L)	<0.17	0.38[E,J]	<0.17	<0.17[E]	<0.17	<0.17
Chromium (µg/L)	<0.14	<0.14[E]	6.3	1.2[E]	<0.14	<0.14[E]
Cobalt (µg/L)	<0.060	<0.060	<0.060	0.11[J]	<0.060	<0.060
Copper (µg/L)	0.26[J]	0.37[E,J]	0.39[J]	0.49[E, J]	0.12[J]	0.16[J]
Lead (µg/L)	0.18[J]	0.22[E,J]	<0.020	<0.020[E]	0.037[J,R]	0.12[E,J]
Mercury (µg/L)	<0.15	<0.15	<0.15	<0.15	<0.15[QC-2H]	<0.15[E,QC-2H]
Molybdenum (µg/L)	2.0[J]	2.0[E,J]	2.0 [J]	1.0[E,J]	2.4	1.9[J]
Nickel (µg/L)	<0.13	<0.13	2.2	<0.13	<0.13	<0.13
Selenium (µg/L)	<0.75	1.0[J]	<0.75	<0.75	1.1[J,R]	<0.75
Silver (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
Thallium (µg/L)	0.066[J]	0.059[E,J]	<0.030	<0.030[E]	0.12[J,R]	<0.030
Vanadium (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
Zinc (µg/L)	0.55[J]	0.60[E, J]	2.6[J]	3.8[E, J]	<0.27	4.8[E,J]
Oil and Grease						
Oil and Grease (mg/L)	<1.0	--	<1.0	--	<1.0	--

-- = no data; < indicates results were less than the method detection limit (i.e., results were reported as non-detect in laboratory reports); µg/L = micrograms per liter; mg/L = milligrams per liter

Notes:

[A] Additional chlorophyll-*a* samples were collected on September 18, 2025, to supplement samples collected on August 18, 2025, that were analyzed out of hold time. These values are included in parenthesis.

[E] Analyte was found in the associated equipment blank.

[J] Detected, but below the reporting limit; therefore, result is an estimated concentration.

[H] Sample was analyzed out of hold time.

[QC-2H] The recovery of one continuing calibration verification was greater than the acceptance limit. However, all analytes in the associated samples were not-detected; therefore, a reanalysis was not performed.

[R] Relative percent difference of field duplicate exceeded 20 percent.

4.1.2. STREAM

4.1.2.1. In Situ Water Quality Measurements

Water temperatures in Mill Creek and South Fork Mill Creek upstream of Lundy Lake (Sites UMC-1 and UMC-2), Mill Creek Bypass Reach (Site MCBR-4 and Site MCBR-5), Lower Mill Creek (Site LMC-7 and LMC-8), Lundy Powerhouse Tailrace (Site LPH-9), and MCRD (MCRD-6) were less than 20°C and dissolved oxygen was close to 100 percent saturation. Stream pH was nearly neutral (7.1–8.1 s.u.), specific conductance was low (59–80 µS/cm), and turbidity was low (0.2–4.5 NTU) during all sampling events during April through October (Table 4.1-2). Continuous stream water temperatures are described in the *Lundy Lake and Mill Creek Water Temperature Monitoring (WQ-2) Draft Technical Report* (SCE, 2026b).

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4.1.2.2. Analytical Water Quality

Water quality in Mill Creek and South Fork Mill Creek upstream of Lundy Lake (Sites UMC-1 and UMC-2), Mill Creek Bypass Reach (Site MCBR-4 and Site MCBR-5), Lower Mill Creek (Site LMC-7 and LMC-8), Lundy Powerhouse Tailrace (Site LPH-9), and MCRD (MCRD-6) stream sites was characterized by low turbidity, low total suspended solids, low-to-moderate buffering capacity (i.e., low total alkalinity, low hardness, and low-to-moderate minerals). Grab samples contained low nutrients and low chlorophyll-*a*. Dissolved minerals are present in low-to-moderate concentrations (Table 4.1-3 and Table 4.1-4). Metal concentrations were low or less than the reporting limits with a few exceptions (i.e., arsenic and barium).

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Table 4.1-2. Stream In Situ Water Quality, 2025

Stream Reach	Upstream of Lundy Lake						Mill Creek Bypass Reach								Lower Mill Creek							Downstream of Lundy Powerhouse						
	Mill Creek upstream of Lundy Lake and the confluence with South Fork Mill Creek (Site UMC-1)			South Fork Mill Creek upstream of Lundy Lake and the confluence with Mill Creek (Site UMC-2)			Mill Creek immediately downstream of Lundy Lake (Site MCBR-4)			Mill Creek upstream of the confluence with the Mill Creek Return Ditch (Site MCBR-5)					Mill Creek downstream of the confluence with the Mill Creek Return Ditch at the old US Highway 395 Bridge (Site LMC-7)				Mill Creek between Highway 395 and Mono Lake (Site LMC-8)			Lundy Powerhouse Tailrace (Site LPH-9)				Mill Creek Return Ditch upstream of the confluence with Mill Creek (Site MCRD-6)		
Date (2025)	**4/29**	**8/19**	**10/20**	**4/29**	**8/19**	**10/20**	**4/29**	**8/19**	**10/20**	**4/29**	**6/9**	**7/15**	**8/19**	**10/20**	**4/29**	**6/9**	**7/15**	**8/19**	**4/29**	**8/19**	**10/20**	**4/29**	**7/25**	**8/19**	**10/20**	**6/9**	**7/15**	**8/19**
Water temperature (°C)	5.8	10.0	8.6	6.1	10.2	7.6	7.9	16.3	9.7	6.0	15.1	17.2	13.1	8.6	6.2	14.6	16.9	17.2	5.7	15.0	12.1	7.9	15.7	17.6	10.0	12.7	16.9	19.3
Dissolved oxygen (mg/L)	9.4	8.5	8.7	9.3	8.3	8.7	9.2	7.4	8.4	9.9	7.7	7.5	8.1	8.8	9.9	7.8	7.5	7.4	10.0	8.0	8.5	9.5	7.7	7.4	8.7	8.5	7.7	7.6
Dissolved oxygen (% saturation)[a]	101	100	99	100	98	96	103	99	98	102	99	101	99	100	102	99	100	99	101	100	99	103	101	100	98	103	103	107
pH (s.u.)	7.5	7.7	7.3	7.4	7.1	7.5	7.8	7.6	7.6	7.7	7.4	7.6	8.0	7.6	7.6	7.1	7.5	7.9	7.5	7.7	7.9	7.7	7.5	8.1	7.6	7.5	7.7	7.8
Specific conductance (µS/cm)	79	76	80	77	75	78	74	66	67	76	66	69	73	74	76	63	66	68	76	69	75	74	59	65	67	60	60	65
Turbidity (NTU)	1.3	2.2	1.2	1.5	1.9	1.8	1.3	0.2	1.5	2.7	3.2	1.7	1.2	1.6	2.8	4.5	1.7	1.0	3.5	1.1	0.9	1.2	0.5	0.8	0.9	1.6	0.5	0.2

% = percent; µS/cm = microsiemens per centimeter; °C = degrees Celsius; mg/L = milligrams per liter; NTU = Nephelometric Turbidity Unit; s.u. = standard unit
Notes:
[a] Dissolved oxygen percent saturation was calculated using local real-time barometric pressure measured by the YSI handheld meter.

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Table 4.1-3. Stream Analytical Water Quality Results—Upstream of Lundy Lake and Mill Creek Bypass Reach, 2025

Stream Reach	Upstream of Lundy Lake						Mill Creek Bypass Reach							
	Mill Creek upstream of Lundy Lake and the confluence with South Fork Mill Creek (Site UMC-1)			South Fork Mill Creek upstream of Lundy Lake and the confluence with Mill Creek (Site UMC-2)			Mill Creek immediately downstream of Lundy Lake (Site MCBR-4)			Mill Creek upstream of the confluence with the Mill Creek Return Ditch (Site MCBR-5)				
2025 Date	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**6/9**	**7/15**	**8/19[A]**	**10/20**
General Chemistry and Minerals														
Calcium (mg/L)	12	12	14	12	12	12	10	9.6	12	10	9.1	7.9[F]	10	9.8
Chloride (mg/L)	0.43[F, J]	0.37[F, J]	0.39[J]	0.44[F, J]	0.38[F, J]	0.43[J]	0.48[F, J]	0.41[F, J]	0.54	0.53[F]	0.47[F, J]	0.47[F, J]	0.47[F, J]	0.56
Magnesium (mg/L)	0.49[J]	0.57[J]	0.55[J]	0.47[J]	0.49[J]	0.48[J]	0.48[J]	0.45[J]	0.51[J]	0.90[J]	0.66[J]	0.86[J]	1.0	1.0
Total organic carbon, dissolved (mg/L)	<0.54	<0.54[F]	<0.54	<0.54	<0.54[F]	<0.54	<0.54	<0.54[F]	0.65[J]	<0.54	0.68	<0.54	<0.54[F]	<0.54
Total organic carbon (mg/L)	<0.54	<0.54[F]	<0.54	<0.54	<0.54[F]	<0.54	1.0	<0.54[F]	0.79[J]	<0.54	1.2	<0.54	<0.54[F]	<0.54
Potassium (mg/L)	0.73[J]	0.97[J]	1.2	0.83[J]	0.92[J]	0.99[J]	0.75[J]	0.83[J]	0.97[J]	1.1	0.74[J]	0.72[J]	0.93[J]	1.0
Sodium (mg/L)	1.3	1.4	1.6	1.4	1.4	1.5	1.9	1.7	1.8	2.9	2.1[F]	2.5[F]	3.2	3.0
Sulfate as SO_4 (mg/L)	18	17	20	17	15	18	14	12	14	12	11[F]	11[F]	10	11
Hardness as calcium carbonate (mg/L)	32	32	37	32	31	32	28	26	31	30	25	23	30	29
Total alkalinity (mg/L)	17[F]	17[F]	16	18[F]	20[F]	18	19[F]	18[F]	18	25[F]	20[F]	22[F]	26[F]	41
Total dissolved solids (mg/L)	53	51	64	55	54	65	52	47	57	54	49	51	59	64
Total suspended solids (mg/L)	7.1[F]	4.5	<2.5	<2.5	3.9	2.9	<2.5	<2.5	<2.5	4.6	7.9	<2.5	2.6	<2.5
Nutrients and Productivity														
Ammonia as N (mg/L)	0.046[F, J]	<0.025[F]	0.037[F, J]	0.054[F, J]	<0.025[F]	0.071[F, J]	0.037[F, J]	<0.025[F]	0.063[F,J]	0.047[F, J]	0.087[F, J]	<0.025[F]	<0.025[F]	0.093[F,J]
Nitrate+nitrite as N (mg/L)	0.069[J]	0.16[J]	<0.055	0.069[J]	0.090[J]	0.057[J]	<0.053	0.097[J]	<0.055	<0.053	<0.055	<0.053	0.054[J]	<0.055
Orthophosphate as PO_4 (mg/L)	<0.0051	<0.0051	0.017[F, J]	<0.0051	0.012[J]	0.034[F, J]	<0.0051	<0.0051	0.059[F,J]	<0.0051	0.021[J]	0.12[F, J]	0.021[J]	0.071[F,J]
Total Kjeldahl nitrogen (mg/L)	0.14[F, J]	0.077[F, J]	0.16[F, J]	0.11[F, J]	0.12[F, J]	0.17[F, J]	0.18[F, J]	0.074[F, J]	0.27[F]	0.12[F, J]	0.12[F, J]	0.23[F, R]	0.097[F, J]	0.14[F,J]
Total Phosphorus as P (mg/L)	0.025[J]	0.086	<0.023	<0.023	0.074	<0.023	<0.023	<0.023	0.12	<0.023	0.041[J]	<0.023	0.023[J]	<0.023
Chlorophyll-*a* (µg/L)	<5.0[H]	<5.0[H] (<5.0)[A]	<5.0	<5.0[H]	<5.0[H] (<5.0)[A]	<5.0	9.6[H]	<5.0[H] (6.2)[A]	<5.0	<5.0[H]	<5.0	<5.0	<5.0 (<5.0)[A]	<5.0

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Stream Reach	Upstream of Lundy Lake						Mill Creek Bypass Reach							
	Mill Creek upstream of Lundy Lake and the confluence with South Fork Mill Creek (Site UMC-1)			South Fork Mill Creek upstream of Lundy Lake and the confluence with Mill Creek (Site UMC-2)			Mill Creek immediately downstream of Lundy Lake (Site MCBR-4)			Mill Creek upstream of the confluence with the Mill Creek Return Ditch (Site MCBR-5)				
2025 Date	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**6/9**	**7/15**	**8/19[A]**	**10/20**
Metals														
Antimony (µg/L)	<0.34	<0.34	0.41[J]	<0.34	<0.34	<0.34	<0.34	<0.34	0.50[J]	<0.34	<0.34	<0.34[F]	<0.34	<0.34
Arsenic (µg/L)	0.81[F, J]	3.0	1.8[J]	5.1[F]	8.5	8.0	3.2[F]	4.2	5.7	2.3[F]	2.8	3.0[R]	2.4	1.8[J]
Barium (µg/L)	9.4[J]	12[J]	10[J]	10[J]	9.9[J]	9.2[J]	9.1[J]	7.7[J]	8.2[J]	25	23	26[F]	27	24
Beryllium (µg/L)	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31	<0.31[QC-2H]
Cadmium (µg/L)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17[F]	<0.17	<0.17
Chromium (µg/L)	<0.14	0.83[F,J]	<0.14[F]	<0.14	0.64[F,J]	<0.14[F]	<0.14	0.48[F,J]	<0.14[F]	<0.14	<0.14[F]	0.35[F,J]	0.55[F]	<0.14[F]
Cobalt (µg/L)	<0.060	0.25[J]	0.094[J]	<0.060	0.13[J]	0.087[J]	<0.060	<0.060	<0.060	<0.060	0.091[J]	0.060[J]	<0.060	<0.060
Copper (µg/L)	0.13[J]	1.3[J]	<0.090	0.59[J]	0.60[J]	0.12[J]	0.25[J]	0.23[J]	<0.090	0.31[J]	0.41[F,J]	0.46[F, J]	0.20[J]	<0.090
Lead (µg/L)	0.050[J]	0.60[J]	0.073[J]	0.26[J]	0.30[J]	0.47[J]	0.14[J]	<0.020	0.061[J]	0.15[J]	0.33[J]	0.23[F, J]	<0.020	0.060[J]
Mercury (µg/L)	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Molybdenum (µg/L)	1.0[F, J]	1.1 [J]	2.0[F, J]	1.4[F, J]	1.4[J]	2.0[F,J]	1.9[F, J]	1.5[J]	2.4[F]	2.0[F]	1.9[F, J]	2.5[F]	2.0	2.2[F]
Nickel (µg/L)	<0.13	0.46[J]	<0.13	<0.13	0.19[J]	<0.13	<0.13	0.16[J]	<0.13	<0.13	0.17[F, J]	<0.13	<0.13	<0.13
Selenium (µg/L)	2.3[J]	3.3[F, J]	0.97[J]	2.9[J]	1.0[F, J]	0.79[J]	<0.75	<0.75[F]	2.6[J]	<0.75	<0.75	1.5[J, R]	1.3[F, J]	0.97[J]
Silver (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
Thallium (µg/L)	0.032[F, J]	<0.030	0.11[J]	<0.030[F]	<0.030	0.035[J]	0.031[F, J]	<0.030	0.10[J]	0.031[F, J]	<0.030[F]	0.12[F, J, R]	<0.030	<0.030
Vanadium (µg/L)	<0.070	<0.070	<0.070	0.085[J]	<0.070	<0.070	<0.070	<0.070	<0.070	0.46[J]	0.10[J]	<0.070	<0.070	<0.070
Zinc (µg/L)	0.31[J]	2.8[F, J]	0.71[J]	0.64[J]	1.9[F, J]	0.72[J]	0.42[J]	0.66[F, J]	<0.27	0.84[J]	1.9[F, J]	4.0[F, J]	1.0[F, J]	0.65[J]

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Stream Reach	Upstream of Lundy Lake						Mill Creek Bypass Reach							
	Mill Creek upstream of Lundy Lake and the confluence with South Fork Mill Creek (Site UMC-1)			South Fork Mill Creek upstream of Lundy Lake and the confluence with Mill Creek (Site UMC-2)			Mill Creek immediately downstream of Lundy Lake (Site MCBR-4)			Mill Creek upstream of the confluence with the Mill Creek Return Ditch (Site MCBR-5)				
2025 Date	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**6/9**	**7/15**	**8/19[A]**	**10/20**
General Chemistry and Minerals														
Calcium (mg/L)	12	12	14	12	12	12	10	9.6	12	10	9.1	7.9[F]	10	9.8
Chloride (mg/L)	0.43[F, J]	0.37[F, J]	0.39[J]	0.44[F, J]	0.38[F, J]	0.43[J]	0.48[F, J]	0.41[F, J]	0.54	0.53[F]	0.47[F, J]	0.47[F, J]	0.47[F, J]	0.56
Magnesium (mg/L)	0.49[J]	0.57[J]	0.55[J]	0.47[J]	0.49[J]	0.48[J]	0.48[J]	0.45[J]	0.51[J]	0.90[J]	0.66[J]	0.86[J]	1.0	1.0
Total organic carbon, dissolved (mg/L)	<0.54	<0.54[F]	<0.54	<0.54	<0.54[F]	<0.54	<0.54	<0.54[F]	0.65[J]	<0.54	0.68	<0.54	<0.54[F]	<0.54
Total organic carbon (mg/L)	<0.54	<0.54[F]	<0.54	<0.54	<0.54[F]	<0.54	1.0	<0.54[F]	0.79[J]	<0.54	1.2	<0.54	<0.54[F]	<0.54
Potassium (mg/L)	0.73[J]	0.97[J]	1.2	0.83[J]	0.92[J]	0.99[J]	0.75[J]	0.83[J]	0.97[J]	1.1	0.74[J]	0.72[J]	0.93[J]	1.0
Sodium (mg/L)	1.3	1.4	1.6	1.4	1.4	1.5	1.9	1.7	1.8	2.9	2.1[F]	2.5[F]	3.2	3.0
Sulfate as SO_4 (mg/L)	18	17	20	17	15	18	14	12	14	12	11[F]	11[F]	10	11
Hardness as calcium carbonate (mg/L)	32	32	37	32	31	32	28	26	31	30	25	23	30	29
Total alkalinity (mg/L)	17[F]	17[F]	16	18[F]	20[F]	18	19[F]	18[F]	18	25[F]	20[F]	22[F]	26[F]	41
Total dissolved solids (mg/L)	53	51	64	55	54	65	52	47	57	54	49	51	59	64
Total suspended solids (mg/L)	7.1[F]	4.5	<2.5	<2.5	3.9	2.9	<2.5	<2.5	<2.5	4.6	7.9	<2.5	2.6	<2.5
Nutrients and Productivity														
Ammonia as N (mg/L)	0.046[F, J]	<0.025[F]	0.037[F, J]	0.054[F, J]	<0.025[F]	0.071[F, J]	0.037[F, J]	<0.025[F]	0.063[F,J]	0.047[F, J]	0.087[F, J]	<0.025[F]	<0.025[F]	0.093[F,J]
Nitrate+nitrite as N (mg/L)	0.069[J]	0.16[J]	<0.055	0.069[J]	0.090[J]	0.057[J]	<0.053	0.097[J]	<0.055	<0.053	<0.055	<0.053	0.054[J]	<0.055
Orthophosphate as PO_4 (mg/L)	<0.0051	<0.0051	0.017[F, J]	<0.0051	0.012[J]	0.034[F, J]	<0.0051	<0.0051	0.059[F,J]	<0.0051	0.021[J]	0.12[F, J]	0.021[J]	0.071[F,J]
Total Kjeldahl nitrogen (mg/L)	0.14[F, J]	0.077[F, J]	0.16[F, J]	0.11[F, J]	0.12[F, J]	0.17[F, J]	0.18[F, J]	0.074[F, J]	0.27[F]	0.12[F, J]	0.12[F, J]	0.23[F, R]	0.097[F, J]	0.14[F,J]
Total Phosphorus as P (mg/L)	0.025[J]	0.086	<0.023	<0.023	0.074	<0.023	<0.023	<0.023	0.12	<0.023	0.041[J]	<0.023	0.023[J]	<0.023
Chlorophyll-*a* (µg/L)	<5.0[H]	<5.0[H] (<5.0)[A]	<5.0	<5.0[H]	<5.0[H] (<5.0)[A]	<5.0	9.6[H]	<5.0[H] (6.2)[A]	<5.0	<5.0[H]	<5.0	<5.0	<5.0 (<5.0)[A]	<5.0

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Stream Reach	Upstream of Lundy Lake						Mill Creek Bypass Reach							
	Mill Creek upstream of Lundy Lake and the confluence with South Fork Mill Creek (Site UMC-1)			South Fork Mill Creek upstream of Lundy Lake and the confluence with Mill Creek (Site UMC-2)			Mill Creek immediately downstream of Lundy Lake (Site MCBR-4)			Mill Creek upstream of the confluence with the Mill Creek Return Ditch (Site MCBR-5)				
2025 Date	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**6/9**	**7/15**	**8/19[A]**	**10/20**
Metals														
Antimony (µg/L)	<0.34	<0.34	0.41[J]	<0.34	<0.34	<0.34	<0.34	<0.34	0.50[J]	<0.34	<0.34	<0.34[F]	<0.34	<0.34
Arsenic (µg/L)	0.81[F, J]	3.0	1.8[J]	5.1[F]	8.5	8.0	3.2[F]	4.2	5.7	2.3[F]	2.8	3.0[R]	2.4	1.8[J]
Barium (µg/L)	9.4[J]	12[J]	10[J]	10[J]	9.9[J]	9.2[J]	9.1[J]	7.7[J]	8.2[J]	25	23	26[F]	27	24
Beryllium (µg/L)	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31	<0.31[QC-2H]
Cadmium (µg/L)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17[F]	<0.17	<0.17
Chromium (µg/L)	<0.14	0.83[F,J]	<0.14[F]	<0.14	0.64[F,J]	<0.14[F]	<0.14	0.48[F,J]	<0.14[F]	<0.14	<0.14[F]	0.35[F,J]	0.55[F]	<0.14[F]
Cobalt (µg/L)	<0.060	0.25[J]	0.094[J]	<0.060	0.13[J]	0.087[J]	<0.060	<0.060	<0.060	<0.060	0.091[J]	0.060[J]	<0.060	<0.060
Copper (µg/L)	0.13[J]	1.3[J]	<0.090	0.59[J]	0.60[J]	0.12[J]	0.25[J]	0.23[J]	<0.090	0.31[J]	0.41[F,J]	0.46[F, J]	0.20[J]	<0.090
Lead (µg/L)	0.050[J]	0.60[J]	0.073[J]	0.26[J]	0.30[J]	0.47[J]	0.14[J]	<0.020	0.061[J]	0.15[J]	0.33[J]	0.23[F, J]	<0.020	0.060[J]
Mercury (µg/L)	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Molybdenum (µg/L)	1.0[F, J]	1.1 [J]	2.0[F, J]	1.4[F, J]	1.4[J]	2.0[F,J]	1.9[F, J]	1.5[J]	2.4[F]	2.0[F]	1.9[F, J]	2.5[F]	2.0	2.2[F]
Nickel (µg/L)	<0.13	0.46[J]	<0.13	<0.13	0.19[J]	<0.13	<0.13	0.16[J]	<0.13	<0.13	0.17[F, J]	<0.13	<0.13	<0.13
Selenium (µg/L)	2.3[J]	3.3[F, J]	0.97[J]	2.9[J]	1.0[F, J]	0.79[J]	<0.75	<0.75[F]	2.6[J]	<0.75	<0.75	1.5[J, R]	1.3[F, J]	0.97[J]
Silver (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
Thallium (µg/L)	0.032[F, J]	<0.030	0.11[J]	<0.030[F]	<0.030	0.035[J]	0.031[F, J]	<0.030	0.10[J]	0.031[F, J]	<0.030[F]	0.12[F, J, R]	<0.030	<0.030
Vanadium (µg/L)	<0.070	<0.070	<0.070	0.085[J]	<0.070	<0.070	<0.070	<0.070	<0.070	0.46[J]	0.10[J]	<0.070	<0.070	<0.070
Zinc (µg/L)	0.31[J]	2.8[F, J]	0.71[J]	0.64[J]	1.9[F, J]	0.72[J]	0.42[J]	0.66[F, J]	<0.27	0.84[J]	1.9[F, J]	4.0[F, J]	1.0[F, J]	0.65[J]

µg/L = micrograms per liter; < indicates results were less than the method detection limit (i.e., results were reported as non-detect in laboratory reports); mg/L = milligrams per liter

Notes:

[A] Additional chlorophyll-*a* samples were collected on September 18, 2025, to supplement samples collected on August 18, 2025, that were analyzed out of hold time. These values are included in parenthesis.

[F] Analyte was found in the associated field blank.

[H] Sample was analyzed out of hold time.

[J] Detected, but below the reporting limit; therefore, the result is an estimated.

[QC-2H] The recovery of one continuing calibration verification was greater than the acceptance limit. However, all analytes in the associated samples were not-detected; therefore, a reanalysis was not performed.

[QRL-2] Elevated reporting limits due to limited sample volume.

[R] Relative percent difference of field duplicate exceeded 20 percent.

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Table 4.1-4. Stream Analytical Water Quality Results—Lower Mill Creek and Downstream of Lundy Powerhouse, 2025

Stream Reach	Lower Mill Creek						Downstream of Lundy Powerhouse					
	Mill Creek downstream of the confluence with the Mill Creek Return Ditch at the old US Highway 395 Bridge (Site LMC-7)			Mill Creek between Highway 395 and Mono Lake (Site LMC-8)			Lundy Powerhouse Tailrace (Site LPH-9)			Mill Creek Return Ditch upstream of the confluence with Mill Creek (Site MCRD-6)		
2025 Date	**6/9**	**7/15**	**8/19[A]**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**6/9**	**7/15**	**8/19[A]**
General Chemistry and Minerals												
Calcium (mg/L)	9.2	9.3[F]	10	10	9.7	10	11	9.4	12	9.3	9.5[F]	9.6
Chloride (mg/L)	0.45[F, J]	0.45[F, J]	0.42[F, J]	0.53[F]	0.42[F, J]	0.58	0.48[F, J]	0.39[F, J]	0.41[J]	0.44[F, J]	0.41[F, J]	0.39[F, J]
Magnesium (mg/L)	0.58[J]	0.74[J]	0.66[J]	0.91[J]	0.66[J]	1.0	0.51[J]	0.41[J]	0.50[J]	0.39[J]	0.40[J]	0.41[J]
Total organic carbon, dissolved (mg/L)	<0.54	<0.54	<0.54[F]	<0.54	<0.54[F]	0.82[J]	<0.54	<0.54[F]	<0.54	<0.54	<0.54	<0.54[F]
Total organic carbon (mg/L)	<0.54	0.66[J]	<0.54[F]	<0.54	<0.54[F]	0.94[J]	<0.54	<0.54[F]	<0.54	0.94	<0.54	<0.54[F]
Potassium (mg/L)	0.92[J]	0.48[J]	0.91[J]	0.63[R]	0.88[J]	1.0	0.66[J]	0.80[J]	0.94[J]	0.75[J]	0.97[QC-2H, J]	0.83[J]
Sodium (mg/L)	1.8[F]	2.1[F]	2.1	2.9	2.0	3.1	2.0	1.4	1.8	1.4[F]	1.1[F]	1.4
Sulfate as SO_4 (mg/L)	11[F]	11[F]	12	12	11	11	14	13	14	12[F]	12[F]	13
Hardness as calcium carbonate (mg/L)	25	26	28	30	27	30	29	25	31	25	25	26
Total alkalinity (mg/L)	18[F]	22[F]	20[F]	25[F]	22[F]	25	22[F]	17[F]	17	16[F]	13[F]	17[F]
Total dissolved solids (mg/L)	46	48	53	53	53	65	51	45	57	42	43	46
Total suspended solids (mg/L)	6.4	4.4	12	5.6	<2.5	2.5	<2.5	<2.5	<2.5	<2.5[QRL-2]	<2.5	<2.5
Nutrients and Productivity												
Ammonia as N (mg/L)	0.071[F, J]	<0.025[F, J]	<0.025[F]	0.050[F, J]	<0.025[F]	0.094[F,J]	0.027[F, J]	0.097[F]	0.077[F,J]	0.068[F, R, J]	0.037[F, J]	0.52[F]
Nitrate+nitrite as N (mg/L)	<0.055	<0.053	<0.053	<0.053	0.055[J]	<0.055	<0.053	0.078[J]	<0.055	<0.055	<0.053	<0.053
Orthophosphate as PO_4 (mg/L)	<0.0051	0.082[F, J]	<0.0051	<0.0051	<0.0051	0.079[F,J]	<0.0051	<0.0051	0.038[F,J]	<0.0051	0.064[F, J]	<0.0051
Total Kjeldahl nitrogen (mg/L)	0.18[F, J]	0.76[F]	0.12[F, J]	0.17[F, R, J]	0.093[F, J]	0.33[F,J]	0.17[F, J]	0.19[F, J]	0.12[F,J]	0.24[F, R]	0.46[F]	0.51[F]
Total Phosphorus as P (mg/L)	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Chlorophyll-a (µg/L)	5.6	<5.0	<5.0[H]	<5.0[H]	<5.0[H] (<5.0)[A]	<5.0	9.3[H]	<5.0[H]	<5.0	7.2	<5.0	<5.0[H]

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Stream Reach	Lower Mill Creek						Downstream of Lundy Powerhouse					
	Mill Creek downstream of the confluence with the Mill Creek Return Ditch at the old US Highway 395 Bridge (Site LMC-7)			Mill Creek between Highway 395 and Mono Lake (Site LMC-8)			Lundy Powerhouse Tailrace (Site LPH-9)			Mill Creek Return Ditch upstream of the confluence with Mill Creek (Site MCRD-6)		
2025 Date	**6/9**	**7/15**	**8/19[A]**	**4/29**	**8/19[A]**	**10/20**	**4/29**	**8/19[A]**	**10/20**	**6/9**	**7/15**	**8/19[A]**
Metals												
Antimony (µg/L)	<0.34	<0.34[F]	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34[F]	<0.34
Arsenic (µg/L)	4.0	3.6	3.8	1.4[F,R, J]	3.3	2.3	3.6[F]	4.2	5.2	4.3[R]	3.7	4.7
Barium (µg/L)	17[J]	20[F]	14[J]	25	16[J]	23	10[J]	7.3[J]	7.9[J]	8.4[J]	7.1[F, J]	7.2[J]
Beryllium (µg/L)	<0.31	<0.31	<0.31	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31[QC-2H]	<0.31	<0.31[QC-2H]	<0.31	<0.31	<0.31
Cadmium (µg/L)	<0.17	<0.17[F]	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17[F]	<0.17
Chromium (µg/L)	0.17[F,J]	0.42[F,J]	0.45[F,J]	<0.14	0.29[F,J]	0.15[F,J]	<0.14	0.36[F,J]	<0.14[F]	0.24[F,J]	0.37[F,J]	0.29[F,J]
Cobalt (µg/L)	0.074[J]	0.068[J]	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Copper (µg/L)	0.37[F]	0.60[F,J]	0.30[J]	0.40[J]	0.33[J]	<0.090	0.18[J]	0.30[J]	<0.090	0.27[F, R, J]	0.44[F,J]	0.27[J]
Lead (µg/L)	0.26[J]	0.22[F, J]	<0.020	0.19[J]	<0.020	0.068[J]	0.13[J]	<0.020	0.039[J]	0.12[J]	0.088[F, J]	<0.020
Mercury (µg/L)	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Molybdenum (µg/L)	1.6[F, J]	1.8[F, J]	1.7[J]	2.1[F]	2.2	2.3[F]	1.9[F, J]	1.4[J]	1.7[F,J]	1.2[F, J]	1.3[F, J]	1.3[J]
Nickel (µg/L)	0.20[F, J]	<0.13	0.21[J]	<0.13	0.15[J]	<0.13	<0.13	0.19[J]	<0.13	0.17[F, J]	<0.13	0.16[J]
Selenium (µg/L)	<0.75	<0.75	1.3[F, J]	<0.75	1.9[F, J]	1.8[J]	<0.75	<0.75[F]	1.2[J]	<0.75	<0.75	1.3[F, J]
Silver (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
Thallium (µg/L)	0.030[F, J]	0.054[F, J]	<0.030	0.047[F, R, J]	0.11[J]	<0.030	0.036[F, J]	<0.030	<0.030	<0.030[F]	0.059[F, J]	<0.030
Vanadium (µg/L)	<0.070	<0.070	<0.070	0.40[R, J]	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
Zinc (µg/L)	2.0[F, J]	4.2[F, J]	0.71[F, J]	0.75[J]	1.2[F, J]	0.67[J]	0.47[J]	0.65[F, J]	<0.27	1.2[F, R, J]	3.0[F, J]	0.62[F, J]

µg/L = micrograms per liter; < indicates results were less than the method detection limit (i.e., results were reported as non-detect in laboratory reports); mg/L = milligrams per liter

Notes:

[A] Additional chlorophyll-*a* samples were collected on September 18, 2025, to supplement samples collected on August 18, 2025, that were analyzed out of hold time. These values are included in parenthesis.

[F] Analyte was found in the associated field blank.

[H] Sample was analyzed out of hold time.

[J] Detected, but below the reporting limit; therefore, the result is an estimated.

[QC-2H] The recovery of one continuing calibration verification was greater than the acceptance limit. However, all analytes in the associated samples were not-detected; therefore, a reanalysis was not performed.

[QRL-2] Elevated reporting limits due to limited sample volume.

[R] Relative percent difference of field duplicate exceeded 20 percent.

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4.2. BACTERIA

Indicator bacteria were sampled during seven consecutive weeks surrounding Labor Day (September 1). Samples were collected in Lundy Lake near the boat launch (Site B-LL-1), at the Lundy Lake Dam Day Use Area (Site B-LL-2), Lundy Campground (Site B-MCBR-3), and the Lundy day use area on Mill Creek (Site B-MCBR-4). Bacteria levels in Mill Creek were greater than in Lundy Lake (Table 4.2-1). At the Lundy Lake recreation sites, *E. coli* and fecal coliform levels were low and less than or equal to method reporting limits except in samples collected at the Lundy Lake Day Use Area on September 11, 2025. At Mill Creek recreation sites, *E. coli* and fecal coliform levels were higher during August than September. Laboratory bacteria analysis reports are provided in Appendix G.

Table 4.2-1. Bacteriological Sampling Results, 2025

Analyte (units)	Date (2025)	Lundy Lake		Mill Creek	
		B-LL-1	B-LL-2	B-MCBR-3	B-MCBR-4
Escherichia coli (MPN/100 mL)	8/7	<1	<1	13.4	21.6
	8/13	<1	<1	18.5	17.3
	8/19	<1	<1	24.9	23.1
	8/28	<1	1.0	2.0	7.5
	9/4	<1	<1	4.1	6.3
	9/11	<1	9.7	3.1	5.2
	9/19	<1	<1	7.4	8.6
Fecal coliform (MPN/100 mL)	8/7	<1.8	<1.8	2.0	110
	8/13	--[a]	-- [a]	-- [a]	-- [a]
	8/19	<1.8	1.8	11	130
	8/28	2.0	<1.8	6.8	11
	9/4	<1.8	<1.8	7.8	7.8
	9/11	<1.8	33	4.5	6.8
	9/19	<1.8	<1.8	7.8	8.6
Total coliform (MPN/100 mL)	8/7	96.0	290.9	579.4	770.1
	8/13	920.8	770.1	770.1	980.4
	8/19	155.3	95.9	344.1	517.2
	8/28	387.3	435.2	1,986.3	158.5
	9/4	1,413.6	488.4	1,299.7	1,119.9
	9/11	1,046.2	461.1	1,732.9	1,299.7
	9/19	920.8	161.6	>2,419.6	2,419.6

-- = no data; < = less than the practical quantification limit; > = greater than the quantification limit; MPN = most probably number

Note:

[a] Grab samples collected for bacteriological analysis on August 13, 2025, were not analyzed for fecal coliform due to insufficient sample volume

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4.3. MERCURY IN FISH TISSUE

Two target fish species, rainbow trout (*Oncorhynchus mykiss*) and brown trout (*Salmo trutta*) were captured in Lundy Lake on August 25 and 26, 2025, for tissue analysis. The laboratory analysis of the fish tissue found mercury concentrations to be lower in rainbow trout than brown trout. No individual fish tissue contained methylmercury[4] concentrations that exceed USEPA's tissue residue criterion, which is equivalent to 0.3 microgram per gram (USEPA, 2001). Mercury concentrations in fish tissue and physical characteristics of fish captured are summarized in Table 4.3-1. A comparison of total mercury concentrations in fish tissue with the total length of captured fish are provided in Figure 4.3-1. Mercury concentrations and physical characteristics (i.e., total length, fork length, and weight) by individual fish are tabulated in Appendix H.

Table 4.3-1. Summary of Mercury in Fish Tissue and Physical Characteristics of Fish Captured in Lundy Lake, 2025

Species	Trophic Level[a,b]	Total Number of Fish	Total Mercury in Fish Tissue (µg/g ww)		Total Length (mm)	
			Mean	Range	Mean	Range
Rainbow trout	3	3	0.011	0.009–0.014	344	308–405
Brown trout	3	1	--	0.038	--	179
	4	8	0.147	0.080–0.249	275	215–317
	All	9	0.134	0.038–0.249	264	179–317
All Fish	--	12	0.104	0.009–0.249	284	179–405

-- = not applicable; µg/g ww = micrograms per gram wet weight; mm = millimeters

Notes:

[a] Freshwater trophic level classifications as described in SWRCB (2017). Trophic level 3 fish consume mainly zooplankton; benthic invertebrates; and small, phytoplankton-dependent fish. Trophic level 4 fish consume trophic level 3 fish and other aquatic organisms.

[b] Trophic level classifications were based on the following total lengths: rainbow trout trophic level 3 fish were within 150 to 500 mm, brown trout trophic level 4 fish were within 200 to 500 mm, and brown trout trophic level 3 fish were less than 200 mm (SWRCB, 2017).

[4] Total mercury concentrations in fish tissue are comparable to methylmercury.

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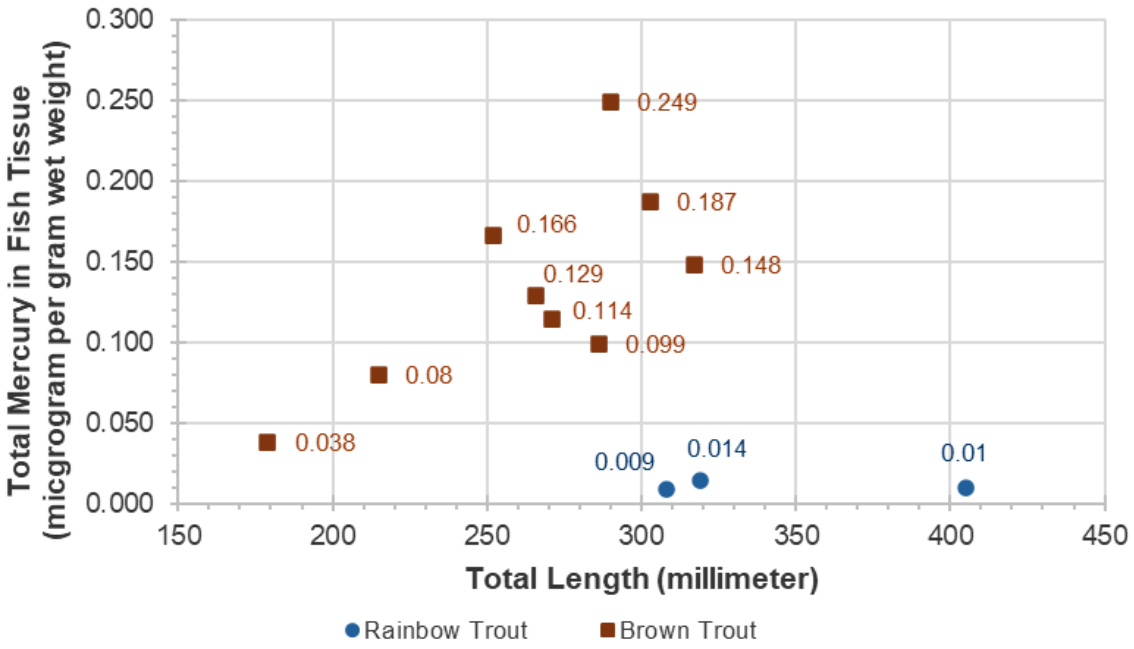


Figure 4.3-1. Mercury in Individual Fish Tissue by Total Length.

4.4. INCIDENTAL OBSERVATIONS

Didymo observations are described in the *Lundy Lake and Mill Creek Water Temperature Monitoring (WQ-2) Draft Technical Report* (SCE, 2026b).

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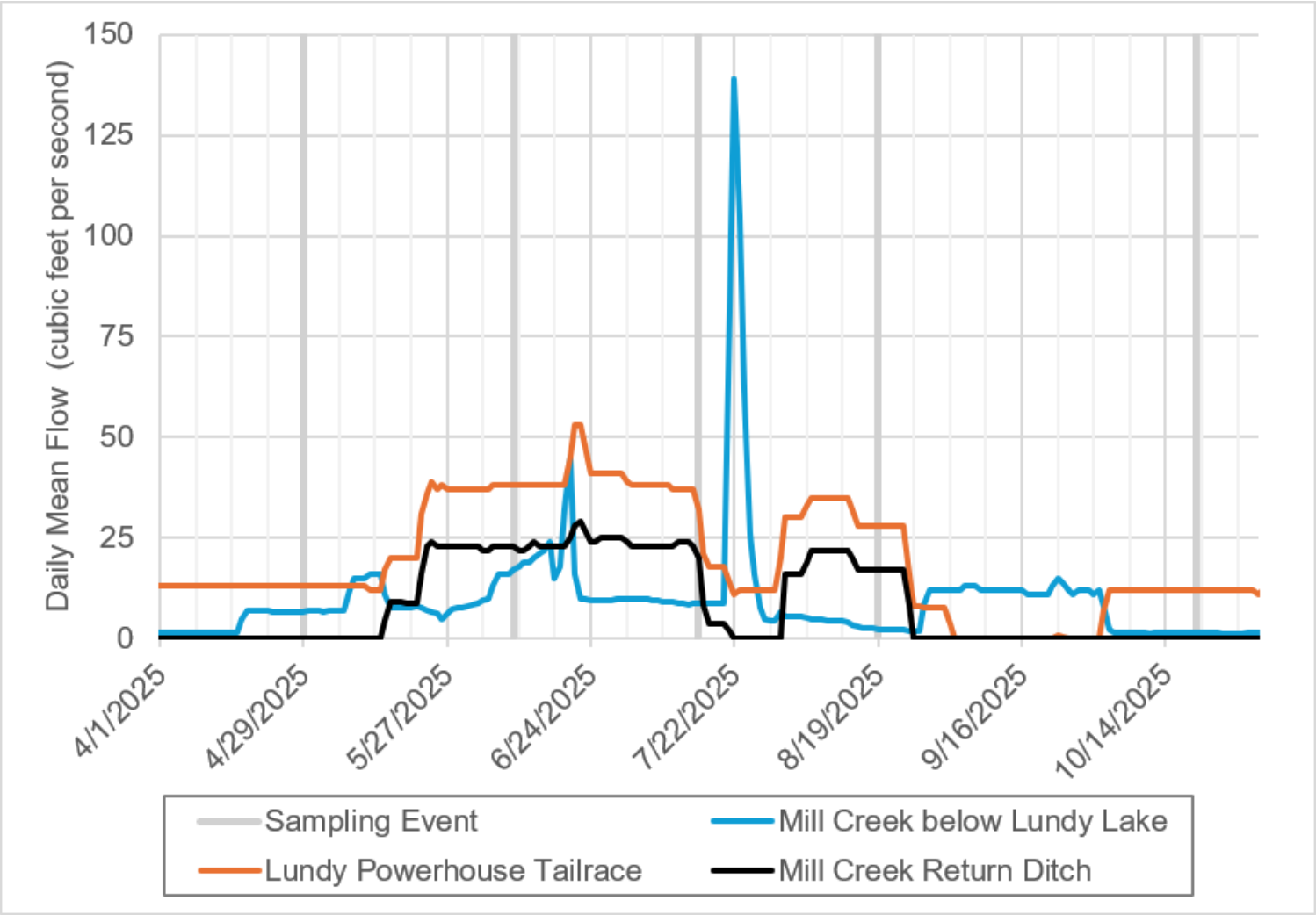
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APPENDICES

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APPENDIX A
DAILY MEAN STREAM FLOWS

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Note: Flow reported are from Mill Creek below Lundy Lake (USGS Gage No. 10287069 [SCE Gage 355]), Lundy Powerhouse Tailrace (USGS Gage No. 10287195 [SCE Gage 365]), and Mill Creek Return Ditch (SCE Gage).

Figure A-1. Daily Mean Stream Flows with Reservoir and Stream Water Quality Sampling Events, 2025.

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Table A-1. Mean Daily Flows in Stream Reaches During Reservoir and Stream Water Quality Sampling Events, 2025

Date (2025)	Mean Daily Flows (cfs)[a]		
	Mill Creek Below Lundy Lake	Lundy Powerhouse Tailrace	Mill Creek Return Ditch
4/29	6.7	13.0	0.0
4/30	6.8	13.0	0.0
6/9	17.0	38.0	23.0
7/15	8.7	32.0	20.0
8/18	2.5	28.0	8.0
8/19	2.4	28.0	8.0
10/20	1.5	12.0	0.0
10/21	1.5	12.0	0.0

cfs = cubic feet per second

[a] Flow reported are from Mill Creek below Lundy Lake (USGS Gage No. 10287069 [SCE Gage 355]), Lundy Powerhouse Tailrace (USGS Gage No. 10287195 [SCE Gage 365]), and Mill Creek Return Ditch (SCE Gage).

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APPENDIX B
LUNDY LAKE GOLDEN MUSSEL VULNERABILITY ASSESSMENT

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SOUTHERN CALIFORNIA EDISON
Lundy Hydroelectric Project
(FERC Project No. 1390)



LUNDY LAKE
GOLDEN MUSSEL VULNERABILITY ASSESSMENT

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LUNDY LAKE
GOLDEN MUSSEL VULNERABILITY ASSESSMENT

Southern California Edison
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October 2026

TABLE OF CONTENTS

Page

1.0 Introduction 1

2.0 Objectives 1

3.0 Overview of the Assessment Area 2

3.1. Assessment Area 2

3.2. Water Quality 4

4.0 Golden Mussel Background 5

4.1. Distribution in California 6

4.2. Water Quality Requirements 8

5.0 Suitability of Lundy Lake to Sustain Golden Mussels 9

5.1. Aquatic Habitat 10

5.2. Water Quality 10

5.2.1. CDFW Categorical Assessment 11

5.2.2. Reproduction and Larval Development 15

5.2.3. Overwinter Adult Survival 15

5.2.4. Water Level Fluctuations 16

6.0 Conclusions 17

7.0 References 19

LIST OF TABLES

Table 3.2-1. Water Quality Data Summarized (Minimum–Maximum) by Sampling Location, April 2025–April 2026 5

Table 4.2-1. Likelihood of Golden Mussel Establishment for Various Water Quality Conditions 8

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Table 4.2-2. Golden Mussel Water Quality Tolerance Ranges Based on Current Literature..... 9

LIST OF FIGURES

Figure 3.1-1. Overview of Lundy Lake and Golden Mussel Study Sites..... 3

Figure 4.1-1. Known Invasive Mussel-infested Waterbodies in California as of October 2025. 7

Figure 5.2-1. Likelihood of Golden Mussel Establishment in Lundy Lake Based on Calcium Concentrations, 2025..... 12

Figure 5.2-2. Likelihood of Golden Mussel Establishment in Lundy Lake Based on Water Temperature and pH Vertical Profiles, 2025. 13

Figure 5.2-3. Likelihood of Golden Mussel Establishment in Lundy Lake Based on Continuous Water Temperature, July 2025–April 2026..... 14

Figure 5.2-4. Lundy Lake Water Levels, 2023–2026..... 17

LIST OF APPENDICES

Appendix A Field and Laboratory Methods

Appendix B Quagga and Zebra Mussel Water Quality Assessment

Appendix C Environmental DNA Laboratory Reports

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LIST OF ACRONYMS AND ABBREVIATIONS

µS/cm	microsiemens per centimeter
°C	degrees Celsius
CDFW	California Department of Fish and Wildlife
eDNA	environmental deoxyribonucleic acid
FERC	Federal Energy Regulatory Commission
mg/L	milligram per liter
ppt	parts per thousand
Project	Lundy Hydroelectric Project (Federal Energy Regulatory Commission Project No. 1390)
SCE	Southern California Edison
s.u.	standard units
Water Quality Study	WQ-1 Study

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1.0 INTRODUCTION

Southern California Edison (SCE) identified the need to conduct a Water Quality Study (WQ-1 Study) to evaluate current water quality at the Lundy Hydroelectric Project, Federal Energy Regulatory Commission Project No. 1390 (Project), reservoir (Lundy Lake) and Project-affected stream reaches (SCE, 2024). Since issuance of the Study Plan Determination on January 2, 2025, new information has emerged regarding detections of the non-native golden mussel (*Limnoperna fortunei*) in California. Recent discussions among California resource agencies have highlighted the vulnerability of regional waterbodies to potential golden mussel introduction and establishment. Based on historical calcium concentrations, Lundy Lake was identified as being potentially susceptible to golden mussel establishment. SCE has been working with the California Department of Fish and Wildlife (CDFW) to understand how the agency is responding to the recent detections of golden mussels and assess potential preventative measures to prevent future introductions and spread of golden mussels.

SCE collected water quality data as part of the WQ-1 Study to inform a golden mussel vulnerability assessment. Details on the water quality field methods and laboratory methods are described in Appendix A. Data collection and analysis are ongoing; continuous water temperature data will be collected in Lundy Lake through spring 2027 in support of the vulnerability assessment.

In addition to the golden mussel, two other invasive mussel species have been identified in California: the quagga mussel (*Dreissena rostriformis bugensis*) and zebra mussel (*Dreissena polymorpha*). These species require a narrower range of water quality conditions than golden mussels to establish in waterbodies. Due to the low mineral content, the water quality of Lundy Lake indicates a low likelihood for quagga and zebra mussel establishment. This is consistent with a 1998 study evaluating California waterbodies, which suggested that the Sierra Nevada Mountain region is generally unsuitable for the establishment of quagga and zebra mussel colonization based on calcium thresholds (Cohen, 2008). These results were supported in a 2017 vulnerability assessment for Lundy Lake (SCE, 2017) and are consistent with an evaluation of water quality data collected in 2025. Appendix B provides a summary of the distribution, water quality requirements, and suitability of Lundy Lake waters to sustain quagga and zebra mussels based on data collected in 2025. Because quagga and zebra mussels were not identified as potential invaders to Lundy Lake, they are excluded from further discussion in this vulnerability assessment.

2.0 OBJECTIVES

The objective of this vulnerability assessment is to evaluate the suitability of Lundy Lake to sustain golden mussels, based on water quality. This vulnerability assessment includes the following components:

- Overview of the Lundy Lake assessment area, including a description of water quality data collected to inform this assessment (Section 3.0);

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- Background on and discussion of golden mussel current distribution in California and water quality requirements based on scientific literature values (Section 4.0);

- Assessment of the suitability of reservoir aquatic habitat quality and water quality to sustain golden mussels based on general habitat, water quality, and reservoir water level fluctuations (Section 5.0); and

- Summary of conclusions (Section 6.0).

This vulnerability assessment does not include the analysis and development of all elements required to satisfy the recommendations for a vulnerability assessment pursuant to Fish and Game Code Section 2302 and California Code of Regulations Title 14 Section 672.1(b), including the identification of potential introduction pathways and potential actions (e.g., signage, watercraft inspections, boat/trailer tagging program) that SCE may implement to prevent or mitigate introductions. These components are described in SCE's Invasive Mussel Prevention Plan (SCE, 2017).

3.0 OVERVIEW OF THE ASSESSMENT AREA

3.1. ASSESSMENT AREA

The assessment area includes Lundy Lake, a 132-acre impoundment located on Mill Creek (Figure 3.1-1), 7 miles upstream of where Mill Creek enters Mono Lake. The upstream source waters are primarily Mill Creek and South Fork Mill Creek located in the Inyo National Forest. The drainage area is approximately 20 square miles. Lundy Dam is a dumped gravel and rockfill dam with a concrete core wall. Water is released from Lundy Lake into Mill Creek, and water diverted from Mill Creek at the dam is transported through a pipeline and penstock to the Project powerhouse. Lundy Lake is generally drawn down in the winter to allow storage capacity for spring runoff.

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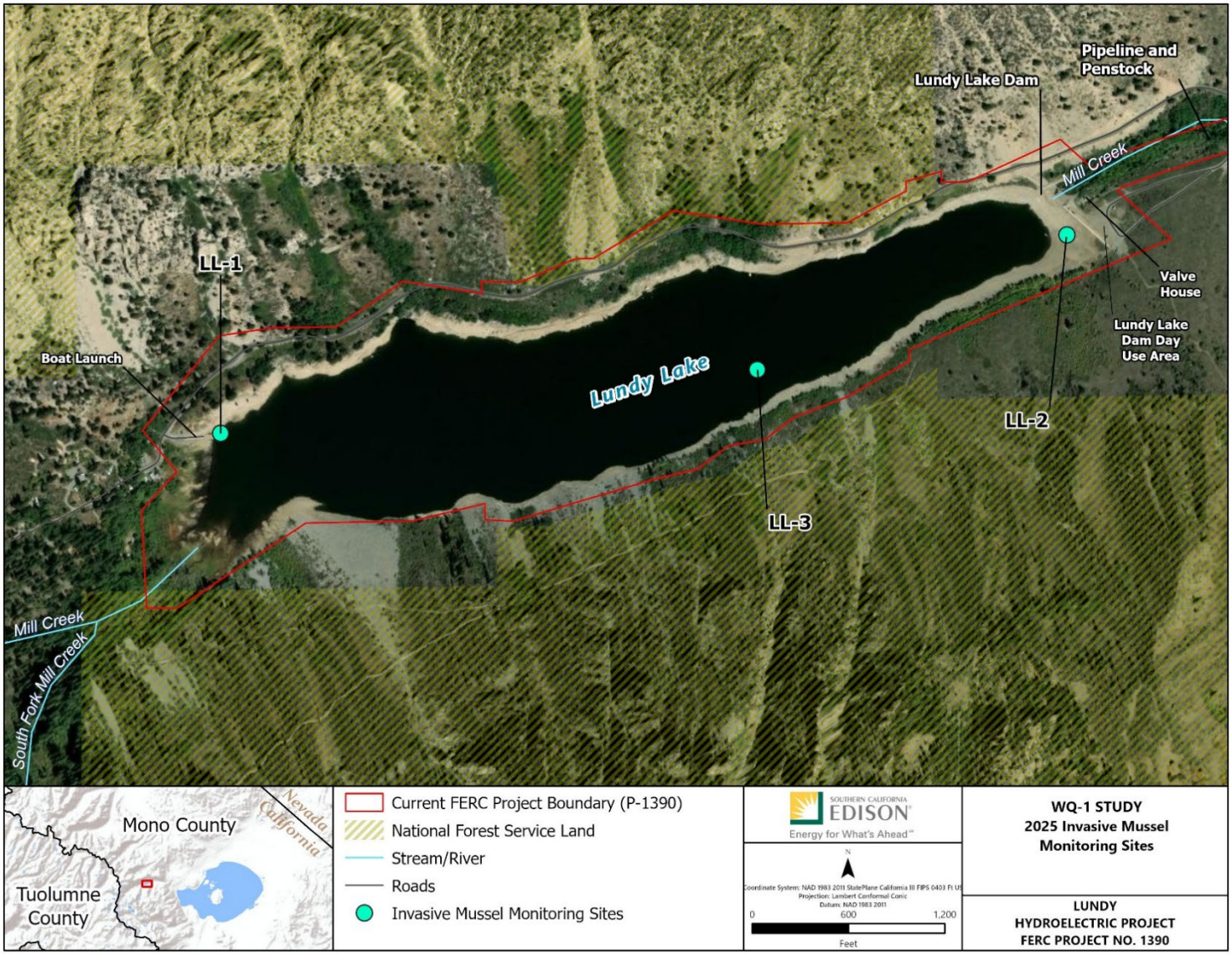


Figure 3.1-1. Overview of Lundy Lake and Golden Mussel Study Sites.

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3.2. WATER QUALITY

Water quality data collected from Lundy Lake to inform this golden mussel vulnerability assessment include the following:

- In situ water temperature, pH, dissolved oxygen, and specific conductance measurements (i.e., spot measurements and profiles);
- Continuous water temperature data collected from the surface at two edgewater locations and a vertical array at one deepwater location (surface, middle, and near bottom);
- Grab sampling for laboratory analysis of calcium and alkalinity concentrations;
- Grab sampling for environmental deoxyribonucleic acid (eDNA) analysis; and
- Visual surveys for invasive mussels at all sampling locations.

Water quality data were collected at three sites in Lundy Lake: two edgewater locations near Lundy Lake Boat Launch (Site LL-1) and Lundy Lake Dam Day Use Area (Site LL-2) and one location near the deepest part of Lundy Lake (Site LL-3) (Figure 3.1-1). The edgewater sites were selected at (1) a recreation site that could serve as a point of entry for invasive mussels via watercraft (Site LL-1) and (2) a location with hard substrate that is conducive to potential establishment of mussels (Site LL-2). Field and laboratory methods are described in Appendix A.

Lundy Lake is a clear oligotrophic lake with low-to-moderate buffering capacity to pH changes (i.e., low total alkalinity). Lundy Lake exhibits expected seasonal variability—uniform water temperatures and water quality indicating a mixed water column during spring, a thermally stratified water column during summer, a return to uniform water quality conditions after reservoir destratification during fall, and an inversely stratified water column during winter (see Section 5.2.1 and 5.2.3). Edgewater and surface water temperatures are warm in the summer (15–23 degrees Celsius [°C]) and cool in the spring (9°C) and fall (8–13°C).[1] Near-bottom waters stay cool during spring, summer, and fall (8–12°C). During winter, when Lundy is covered with ice, water temperatures are near freezing at the ice–water boundary (0°C) and warmer in the mid-column and near-bottom waters (2.6–4.2°C). Lundy Lake exhibits low specific conductance (60–74 microsiemens per centimeter [µS/cm]), and near neutral pH (6.3–7.8 standard units [s.u.]) throughout the water column during the spring, summer, and fall. Water quality data collected between April 2025 and April 2026 are summarized in Table 3.2-1.

Calcium concentrations are higher in Lundy Lake (7.5–12 milligrams per liter [mg/L]; Table 3.2-1) compared with other SCE lakes (0.9–4.3 mg/L; SCE, 2017). Higher calcium concentrations occur naturally in the Mill Creek watershed, including Lundy Lake

[1] Water temperature loggers at Lundy Lake Site LL-1 and Site LL-2 were inaccessible because of high water levels during spring 2026. Data collected at these sites between October 2, 2025, and April 20, 2025, are not included.

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upstream inflows from Mill Creek (12–14 mg/L) and South Fork Mill Creek (12 mg/L) (SCE, 2026a). Calcium input into Lundy Lake and Mill Creek is likely due to groundwater or weathering of rocks in the watershed.

Table 3.2-1. Water Quality Data Summarized (Minimum–Maximum) by Sampling Location, April 2025–April 2026

Parameter	Depth	Lundy Lake near Boat Launch (Site LL-1)	Lundy Lake Dam Day Use Area (Site LL-2)	Lundy Lake (Site LL-3)
Temperature[a](degree Celsius)	Surface	8.0–23.0[b]	5.5–22.0[b]	0–18.6
	Middle	--	--	2.3–18.3
	Bottom	--	--	2.5–13.2
Dissolved oxygen[c] (mg/L)	All	8.0–8.4	7.7–8.3	2.3–9.5
pH[c] (standard units)	All	7.3–7.4	7.6–7.6	5.8–7.8
Specific conductivity[c] (µS/cm)	All	66–70	66–67	58–74
Calcium (mg/L)	All	8.7–11	7.5–11	8.5–12
Total alkalinity (mg/L) as $CaCO_3$	All	17–21	15–20	16–21

-- = no data; µS/cm = microsiemens per centimeter; $CaCO_3$ = calcium carbonate, mg/L = milligram per liter
Notes:

[a] Minimum and maximum water temperatures were calculated using continuous 15-minute interval data collected throughout the reporting period.

[b] Water temperature loggers at Lundy Lake Site LL-1 and Site LL-2 were inaccessible because of high water levels during spring 2026. Data collected at these sites between October 2, 2025, and April 20, 2025, are not included.

[c] Edgewater in situ measurements were only collected on September 10, 2025, and October 21, 2025.

4.0 GOLDEN MUSSEL BACKGROUND

Golden mussels pose a significant threat to California's aquatic ecosystems and water conveyance infrastructure, including hydropower facilities, networks, and operations (e.g., clogging pipes and pumps) (Xu et al., 2015). Golden mussels can tolerate a wide range of environmental conditions (e.g., low calcium, wide salinity ranges), thereby increasing the risk of invasion in California reservoirs (CDFW et al., 2025). To date, golden mussels have not been documented in Lundy Lake.[2]

[2] During the 2025 surveys, no invasive mussel eDNA was detected, and no mussels were visually observed. Field and laboratory eDNA methods and visual survey methods are provided in Appendix A. The laboratory reports with eDNA results are provided in Appendix C.

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4.1. DISTRIBUTION IN CALIFORNIA

The golden mussel is native to the Pearl River basin in southern China and invasive to North America. Primarily transported through ocean-going ship traffic, golden mussels were introduced to several countries in southeast Asia, South America, and more recently in North America.

The first confirmed detection of golden mussels in North America was in California's Sacramento–San Joaquin Delta (Port of Stockton, California) and O'Neill Forebay (part of the San Luis Joint-Use Complex) in October 2024 (CDFW, 2025a). The introduction pathway of golden mussels into California was likely from international ships to the Port of Stockton. In early 2025, golden mussels were found in the lower San Joaquin River and upper Sacramento–San Joaquin Delta region, including Contra Costa, Sacramento, San Joaquin, and Alameda counties (Figure 4.1-1). The survival of golden mussels in the State Water Project has facilitated rapid translocation of the species from Merced County to western King and Kern counties. As of October 2025, golden mussels have been confirmed in approximately 102 locations throughout the Sacramento–San Joaquin Delta and the California Aqueduct (Figure 4.1-1; CDFW, 2025a). During this time, CDFW and other local agencies conducted more than 800 surveys throughout California, including in the Sacramento River, and these surveys did not detect golden mussels outside the waterbodies associated with the Sacramento–San Joaquin Delta and California State Water Project. Survey results were reported to the CDFW Invasive Species Program (CDFW, 2025a). The closest documented golden mussel population to the Project occurs in the San Joaquin River (near Stockton, California) and O'Neill Forebay (near Los Banos, California), approximately 115 miles from Lundy Lake (Figure 4.1-1).

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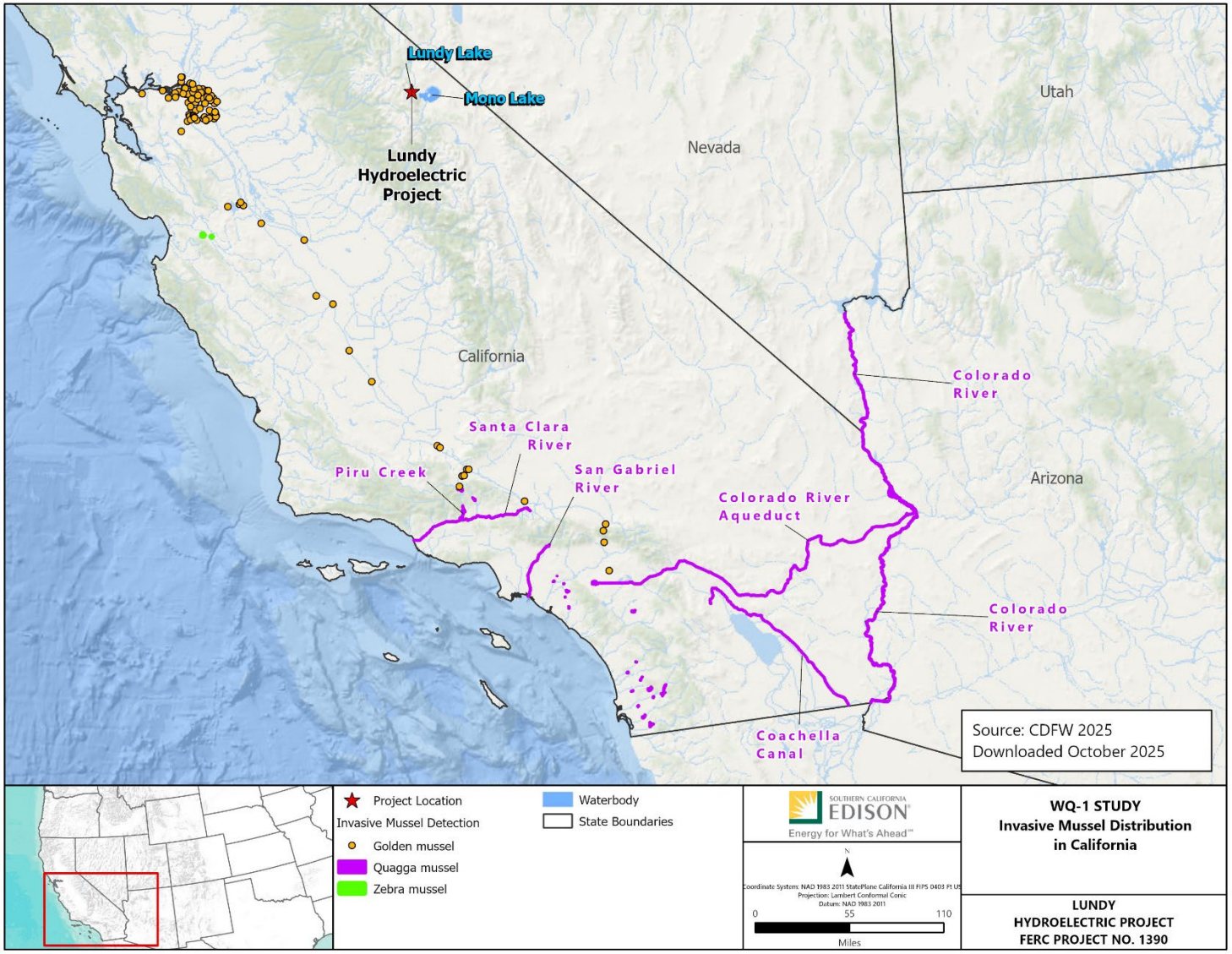


Figure 4.1-1. Known Invasive Mussel-infested Waterbodies in California as of October 2025.

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4.2. WATER QUALITY REQUIREMENTS

Golden mussel colonization requires that reservoir conditions are suitable for all life stages of the species, including spawning, larval development and settlement, juvenile growth and development, and adult survival. Water conditions, including calcium concentrations, pH, and water temperature, can limit the survival and establishment of golden mussels (Cohen and Weinstein, 1998, 2001; Whittier et al., 2008; Liu et al., 2024). Adult life stages can tolerate a wider range of water quality conditions, but the larval stage is less resilient and may be the limiting life stage for colonization of waterbodies. Cold-water temperatures can limit reproduction, and freezing temperatures can cause mortality of individuals (Cohen, 2008; Liu et al., 2024). Additionally, low calcium concentrations may reduce individual growth rates, promote shell loss, and reduce larval production (Cohen and Weinstein, 2001; Liu et al., 2024). These effects are compounded by low pH values because the solubility of calcium carbonate increases as pH decreases, resulting in shell thinning (Claudi and Prescott, 2011).

Available literature indicates that golden mussels can survive under a broad range of environmental conditions (e.g., waters with low calcium) (CDFW, 2024; CDFW et al., 2025); however, thresholds for colonization in the Eastern Sierra Nevada region are poorly understood due to the recent discovery of the species in California. CDFW (2024, 2025b) provided initial guidelines for defining golden mussel habitat suitability based on available literature for water temperature, calcium, and pH. Table 4.2-1 presents a categorical risk of successful golden mussel colonization based on the CDFW (2024, 2025b) guidelines.

Table 4.2-1. Likelihood of Golden Mussel Establishment for Various Water Quality Conditions

Parameter[a]	Likelihood of Golden Mussel Establishment			
	Very Low	Low	Moderate	High
Minimum and maximum temperature (ºC degree Celsius)	<5 or >40	5–15 or 35–40	16–26 or 32–35	26–32
Calcium (mg/L)	<3	3–5	5–10	>10
pH (s.u.)	--	<5 or >10	5–7	7–10

Sources: CDFW, 2024, 2025b

< = less than; > = greater than; -- = no data available; ºC = degree Celsius mg/L = milligram per liter; s.u. = standard unit

Note:

[a] The dissolved oxygen parameter was not included in the CDFW (2024) guidelines; the pH parameter was based on the suitable pH ranges for golden mussel calcification provided in CDFW (2025b). The optimal pH range of 7–10 s.u. was defined as *high*, suitable values less than the optimal range of 5–7 s.u. were defined as *moderate*, and values outside these ranges were defined as *low*.

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Documented golden mussel occurrences that fall outside the water quality parameters currently classified by CDFW as *suitable* (e.g., lower calcium and lower temperature conditions) are limited. Golden mussels have been documented in cold waterbodies that approach freezing temperatures (e.g., Shisanling Reservoir, Beijing, China [Xia et al., 2021]) and in waterbodies with low calcium concentrations (1 and 3 mg/L; Oliveira et al., 2010; Ricciardi, 1998; Karatayev et al., 2007). Table 4.2-2 presents tolerance ranges based on available laboratory and field studies described in scientific literature.

Table 4.2-2. Golden Mussel Water Quality Tolerance Ranges Based on Current Literature

Parameter	Life Stage	Tolerance Range	Study Type	Source
Water temperature (ºC)	Adult	0.1–35	Field and lab	Ricciardi (1998), Cataldo et al. (2005), Oliveira et al. (2011), Andrade et al. (2018), Liu et al. (2020), Xia et al. (2021)
	Larval	16–30	Field	Ricciardi (1998), Nakano et al. (2011), Oliveira et al. (2011)
Calcium (mg/L)	All	>1	Field and lab	Ricciardi (1998), Oliveira et al. (2010, 2011)
pH (s.u.)	Adult	4.1–8.7	Field and lab	Liu et al. (2020)
	Larval	>6.5	Field	Ernandes-Silva et al. (2022)
Air exposure (days)	Adult	7–15	Field and lab	Iwasaki (1997), Darrigran et al. (2004), Andrade et al. (2021), Ito (2025)
Dissolved oxygen (mg/L)	Adult	>0.5	Field	Boltovskoy et al. (2006), Karatayev et al. (2007)
Salinity (ppt)	Adult	0–23	Lab	Sylvester et al. (2013)

> = greater than, ºC = degree Celsius, mg/L = milligram per liter, ppt = part per thousand; s.u. = standard unit

5.0 SUITABILITY OF LUNDY LAKE TO SUSTAIN GOLDEN MUSSELS

The suitability of Lundy Lake to sustain golden mussel colonization was assessed by evaluating the following:

- General aquatic habitat (i.e., substrate and depth) in Lundy Lake;
- Suitable water quality (water temperature, calcium, and pH) parameters that could sustain all golden mussel life stages based on the CDFW (2024, 2025b) guidance;

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- Water quality conditions that could support reproduction and larval development during summer based on literature-based temperature and calcium tolerance ranges;
- Factors that could reduce the likelihood of adult and juvenile mussel survival during winter based on temperature tolerance ranges from the scientific literature; and
- Seasonal reservoir level fluctuations that could reduce the likelihood of mussel colonization in Lundy Lake.

5.1. AQUATIC HABITAT

Golden mussels are primarily a freshwater littoral-zone species, preferentially inhabiting shallow waters and hard substrates. The highest concentrations of golden mussels in lakes typically occur at depths of less than 10 meters (Karatayev et al., 2010; Fusaro et al., 2026). While golden mussels have been observed at depths between 0.5 and 40 meters (Darrigran, 2022), they require sufficient temperatures and food availability for growth and reproduction, thus resulting in an inverse relationship between mussel density and lake depth and thus a higher concentration of mussels in shallower waters (Karatayev et al., 2010; Fusaro et al., 2026). Moreover, golden mussels require suitable substrates for attachment of their byssal threads, showing a strong preference for hard surfaces (e.g., rock, cobble, riprap, concrete structure, and coarse gravel) (Darrigran and Damborenea, 2005; Boltovskoy et al., 2006).

In Lundy Lake, golden mussels would most likely be found in higher densities along the shallow, rocky shoreline; on dam and intake structures; and on docks or other artificial substrates, particularly near the dam and Lundy Lake Resort. These zones combine the two primary habitat requirements—hard substrates and shallow depth—for the species to survive in lakes. Based on their habitat preferences, golden mussels are unlikely to establish in the softer, unconsolidated sediments associated with deeper parts of the lake. However, golden mussels can tolerate a wide range of environmental conditions, making it possible for low densities of golden mussels to occur in almost all areas and all depths of the lake.

5.2. WATER QUALITY

Golden mussels have been documented to occur under a wide range of water quality conditions. Water quality parameters used to assess the suitability of reservoirs in this section are water temperature, calcium, and pH. An initial assessment of these parameters was completed based on the CDFW (2024, 2025b) categorical risk of successful golden mussel colonization for all life stages (Section 5.2.1). Because CDFW golden mussel guidelines are not life-stage-specific and do not specifically consider overwinter habitat suitability, a more specific assessment of Lundy Lake water temperature compared with literature-based thresholds was completed for reproduction and larval development and for overwinter adult survival.

Specific conductance, dissolved oxygen, and alkalinity were collected but not included in the CDFW categorical (Section 5.2.1), reproduction and larval development (Section 5.2.2), or overwinter adult survival (Section 5.2.3) assessments. Specific

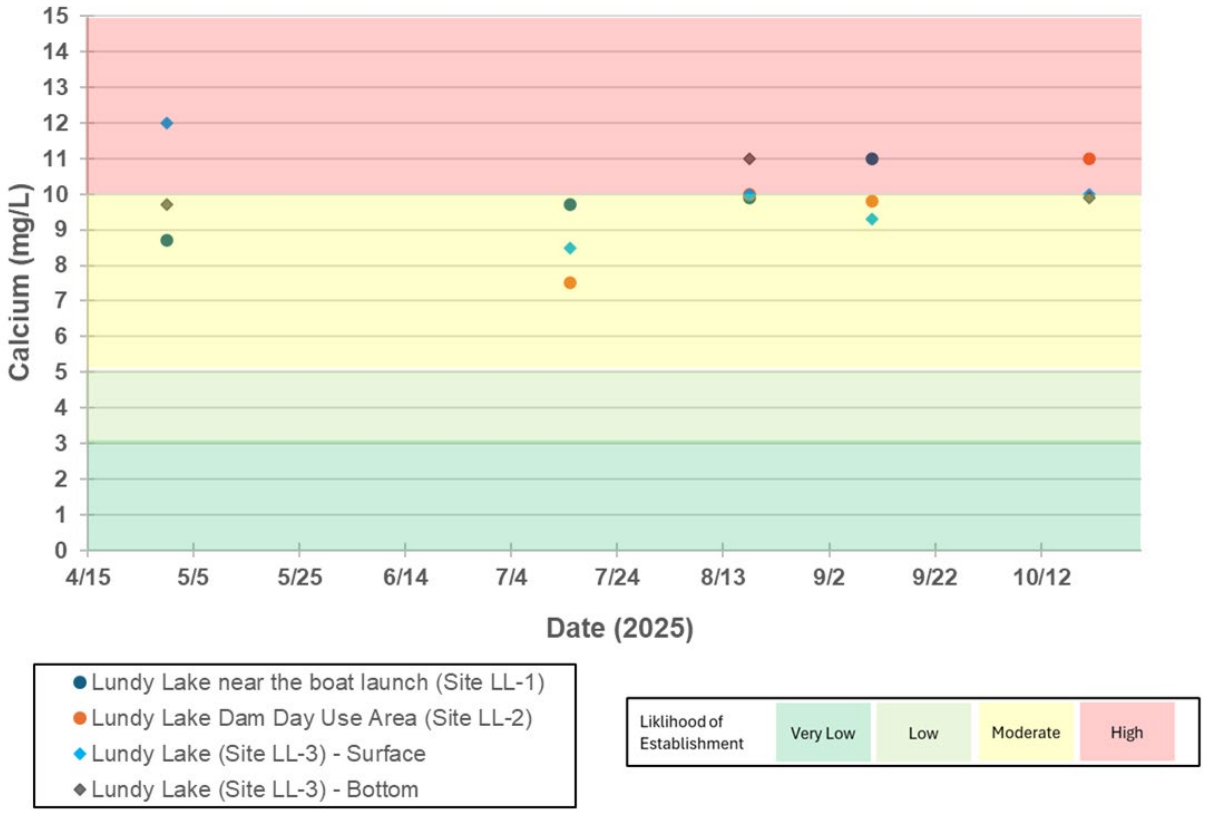
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conductance and dissolved oxygen levels recorded in Lundy Lake during spring, summer, and fall are generally suitable for golden mussels, except for low dissolved oxygen (0.9–2.6 milligram per liter [mg/L]) concentrations in the near-bottom waters during the summer. While instances of prolonged hypoxia (i.e., <0.16 mg/L for 10–12 days) can result in complete golden mussel mortality (Perepelizin and Boltovskoy, 2015), dissolved oxygen concentrations in Lundy Lake have not been recorded in the spring, summer, or fall at levels low enough to induce hypoxia-related mortality. Although Lundy Lake exhibits calcium concentrations that support golden mussel shell development, no literature describing total alkalinity tolerances or preferences was identified.

5.2.1. CDFW Categorical Assessment

CDFW provided categorical risk of successful golden mussel colonization based on available literature for water temperature, calcium, and pH (see Section 4.2). Water quality data were compared with the CDFW risk categories to initially assess the likelihood of golden mussel establishment in Lundy Lake during spring, summer, and fall. According to the categorical risk, calcium and pH concentrations collected at Lundy Lake sites in 2025 (spring, summer, and fall) were within the moderate-to-high likelihood category for golden mussel establishment thresholds (Figure 5.2-1, Figure 5.2-2). Water temperatures at edgewater, surface, and middle reservoir sampling locations during the summer were within the moderate likelihood for golden mussel establishment threshold (Figure 5.2-2, Figure 5.2-3). Spring, fall, and winter water temperatures throughout the water column in Lundy Lake were cooler and within the low likelihood for establishment threshold (Figure 5.2-3).

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Note: Calcium data were not collected at Lundy Lake (Site LL-3) – Middle.

Figure 5.2-1. Likelihood of Golden Mussel Establishment in Lundy Lake Based on Calcium Concentrations, 2025.

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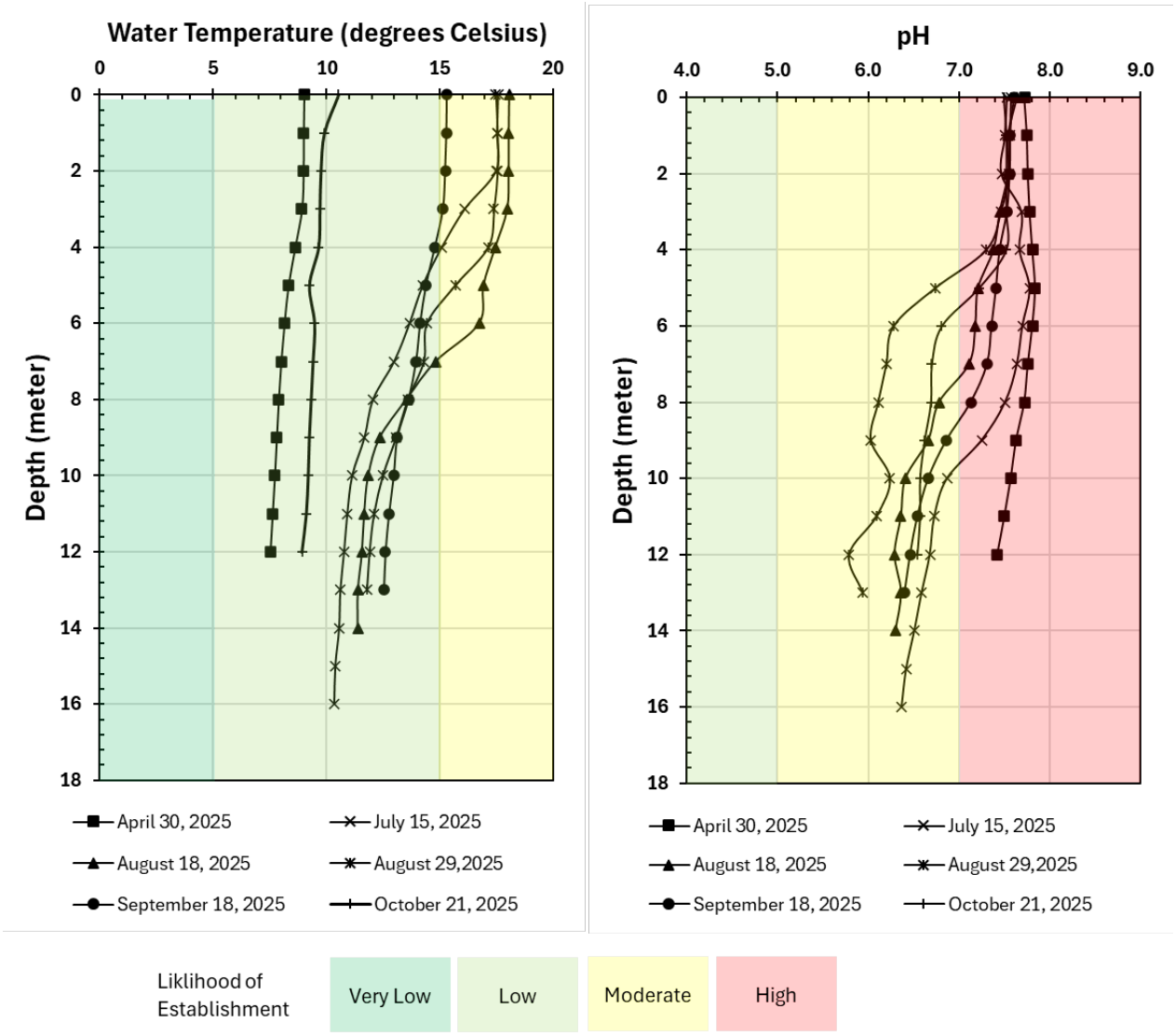


Figure 5.2-2. Likelihood of Golden Mussel Establishment in Lundy Lake Based on Water Temperature and pH Vertical Profiles, 2025.

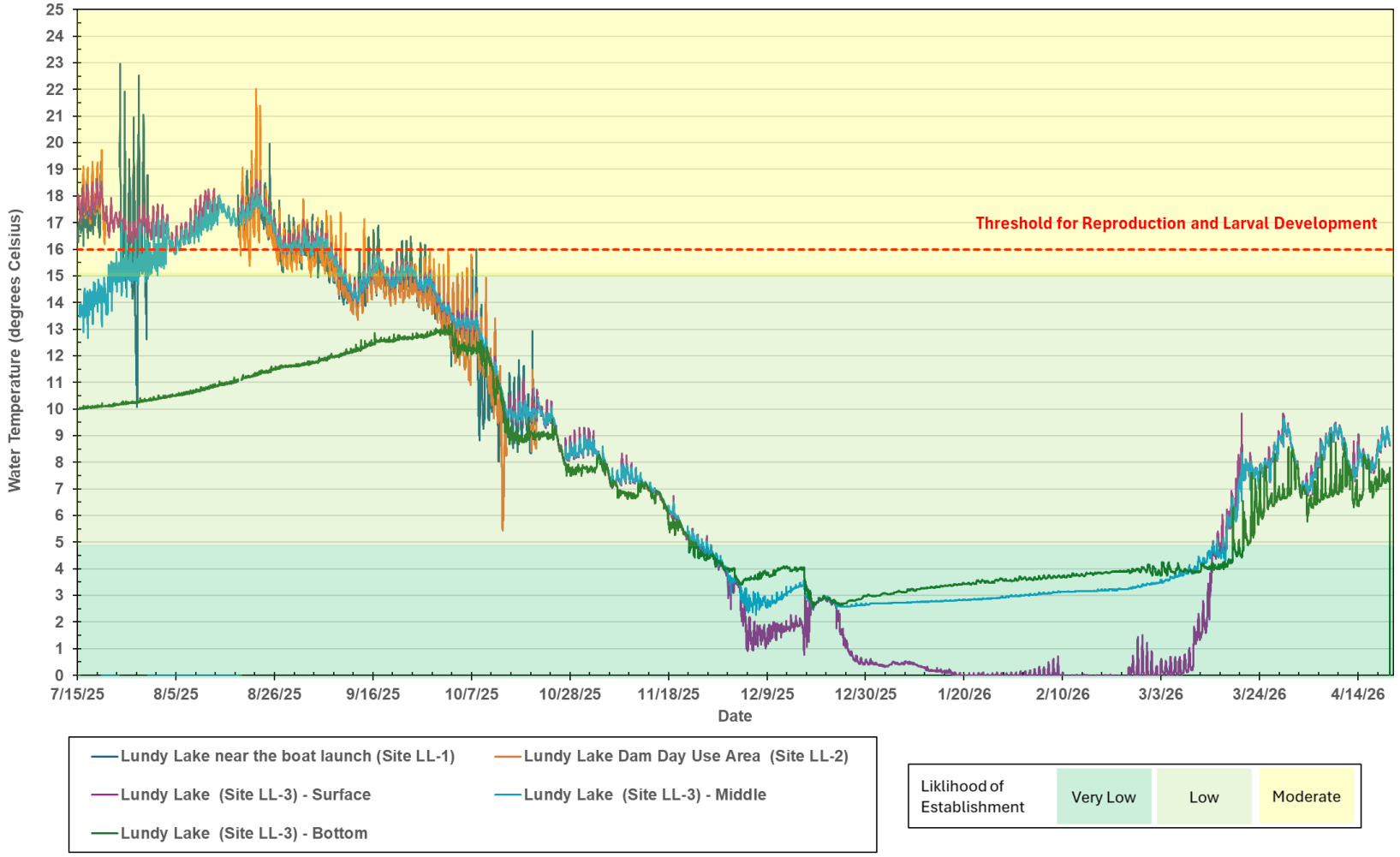


Figure 5.2-3. Likelihood of Golden Mussel Establishment in Lundy Lake Based on Continuous Water Temperature, July 2025–April 2026.

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5.2.2. Reproduction and Larval Development

The larval stage is less resilient and may be the limiting life stage for golden mussel colonization of waterbodies. Cold water temperatures can limit reproduction, including spawning, larval development, and larval settlement. Golden mussel reproduction and larval development primarily occur during warmer months (greater than 16°C), typically spring and summer in the northern hemisphere. Spawning temperatures reported from Asia and South America range from 16 to 28°C, with an optimal spawning temperature of 16 to 17°C (Liu et al., 2020); no data are currently reported in scientific literature for larval development occurring below 15°C (Boltovskoy et al., 2025). Larvae development (transition from a fertilized egg to the planktonic larval stage, and then to sessile juvenile stage) takes between approximately 12 to 20 days at 28°C to 20°C, respectively (Cataldo, 2015); no data are currently reported in scientific literature for timing of larval development at lower water temperatures (Boltovskoy et al., 2025).

Water temperatures measured in Lundy Lake between mid-July and mid-October 2025 were reviewed to determine whether conditions would support larval development (water temperatures >16°C) (Figure 5.2-3). Water temperatures in Lundy Lake indicate that conditions could support eggs, sperm, and larvae survival for at least 2 months (mid-July to early September) during the summer (Figure 5.2-3). The onset of suitable spawning temperatures is likely earlier; however, no water temperature data are currently available for May through mid-July.[3] Suitable water temperatures are limited to the reservoir epilimnion (Figure 5.2-2). Warm water temperatures for 2 months would likely allow for adequate time for golden mussels to spawn and larvae to develop and settle.

Calcium concentrations in Lundy Lake (8.5–12.0 mg/L) are suitable for golden mussel growth and reproduction. Minimum concentrations required for reproduction and larval development are frequently described as between 1 and 3 mg/L in available literature (Oliveira et al., 2010; Ricciardi, 1998; Karatayev et al., 2007), but successful establishment of golden mussels has been documented in waters with very low calcium (less than 1 mg/L) (Mackie and Brinsmead, 2017). A calcium threshold of 5 mg/L may be needed to complete the reproduction life cycle (CDFW, 2025b).

5.2.3. Overwinter Adult Survival

The tolerance of adult golden mussels to survive cold temperatures varies geographically. Adult mussels have been found in waterbodies with minimum water temperatures near 0°C in China and South Korea and 4.2°C in Japan (Oliveira et al., 2010; Nakano et al., 2011; Xia et al., 2021). However, field data and laboratory experiments suggest that golden mussels become inactive and frequently stop filter-feeding by closing their valves at temperatures less than 5°C, thus reducing adult survival rates if exposed to low temperatures for extended periods (Ricciardi, 1998; Oliveira et al., 2010; Andrade et al., 2018; Xia et al., 2021). Laboratory experiments have demonstrated that individuals become active and start filter-feeding between 7.5 and 10°C (Andrade et al., 2018; Xia et al., 2021). Experiments examining northern populations of golden mussel overwintering

[3] Temperature loggers were deployed during mid-July as part of data collection for this study.

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survival found that populations at the northern invasion front can survive 6 days, 41 days, and 108 days at <1°C, <2°C, and <5°C, respectively (Xia et al., 2021); survival rates were 27% of mussels. Thermal thresholds for the golden mussel population in California are unknown.

Water temperature measurements collected from Lundy Lake were less than (<5°C) at all depths in the water column from approximately November 27, 2025, through March 14, 2026 (108 days); water temperatures near surface waters remained less than 2°C for 81 days during this period (Figure 5.2-3). The cold-water temperatures observed in Lundy Lake are close to the documented physiological limits for golden mussels adapted to cold waters in laboratory experiments (Xia et al., 2021; Andrade et al., 2018); therefore, the extended periods of cold water are expected to cause high mortality.

5.2.4. Water Level Fluctuations

Desiccation from reservoir drawdown can be an effective control strategy for golden mussels. Results from Ito (2025) demonstrate that winter drawdowns resulting in 7 to 15 days of air exposure can achieve complete mortality under field conditions. Golden mussel mortality increased substantially during periods with repeated temperatures below 0 °C, indicating that freezing can substantially accelerate mortality beyond desiccation alone.

Lundy Lake water levels are lowered to the minimum pool (base of dam elevation) during the fall every year to allow storage capacity for spring runoff. Water levels are drawn down during the fall and remain low from approximately November to April each year. During this drawdown, approximately 6 to 10 vertical meters of reservoir shoreline and dam become exposed for longer than 3 months, including periods of freezing temperatures, and remain exposed through freezing winter conditions. If golden mussels were introduced, their highest densities would likely be in the 10 meters of the reservoir water column that is exposed during drawdown, reducing the likelihood of golden mussel survival and colonization. Additionally, the cold-water temperatures in the minimum pool in Lundy Lake would reduce adult survival (Section 5.2.3) and would not support reproduction (Section 5.2.2).

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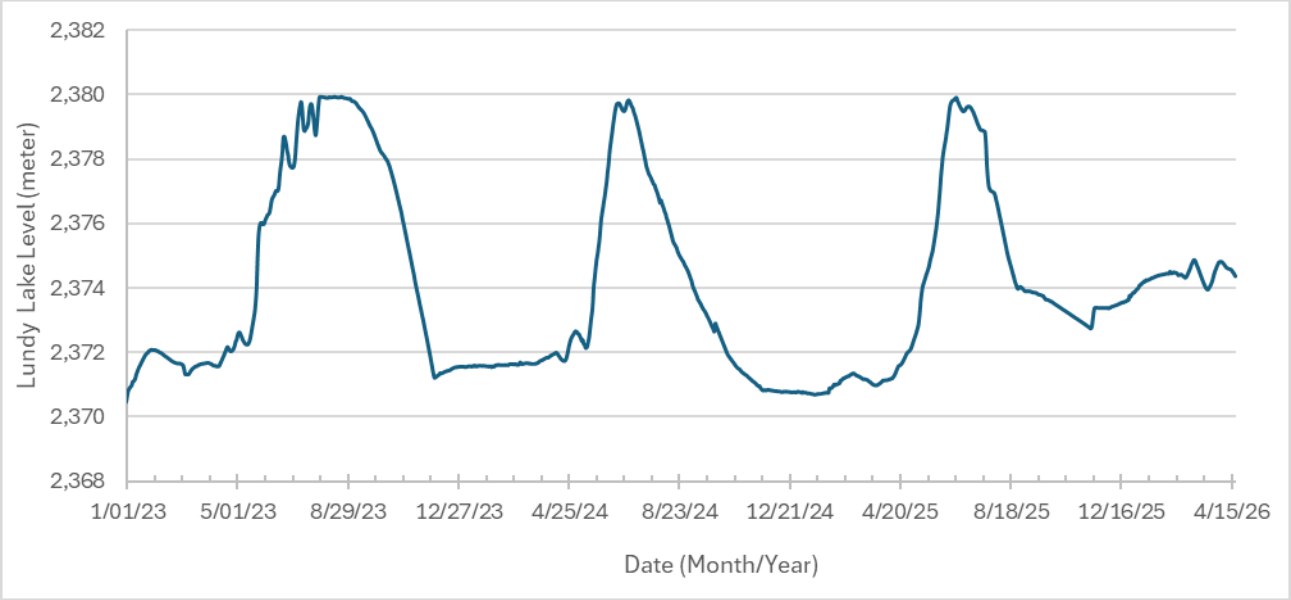


Figure 5.2-4. Lundy Lake Water Levels, 2023–2026.

6.0 CONCLUSIONS

The overall vulnerability of Lundy Lake to golden mussel colonization is determined to be low to moderate based on available information. Recognizing this initial determination is made conservatively (i.e., from a risk-averse perspective) to help guide management decisions, it will require refinement as additional information on current mussel distribution, agency guidance, and mussel tolerances to local water quality conditions (e.g., cold-water temperatures, total alkalinity) become available.

Lundy Lake aquatic habitat and water quality is moderately suitable for golden mussel establishment based on the following:

- Calcium concentrations in Lundy Lake would be able to support all life stages of golden mussels year-round.

- Comparison of currently available water quality data with CDFW categorical risk for calcium, pH, and water temperature thresholds indicate a moderate likelihood that golden mussels could become established in Lundy Lake in the edgewater and epilimnion habitats during summer months when water temperatures are warmer.

- Water temperatures in the epilimnion would support reproduction and spawning for at least 2+ months. This is adequate time for spawning, larval development, and settlement.

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Several factors limit the potential success of golden mussel establishment and reduce the likelihood of colonization to low, including the following:

- The likelihood of colonization decreases to low in the fall because the water temperatures are cool, based on comparison of currently available water quality data with CDFW categorical risk for water temperature.
- Cooler temperatures during the fall through spring are not suitable for reproduction and larvae development.
- Prolonged cold-water temperatures (<5°C) are expected to cause high mortality in golden mussels; however, a fraction of adults could potentially survive. The extended period of winter conditions would substantially reduce—but not eliminate—the potential for golden mussel establishment.
- The likelihood of a golden mussel infestation is significantly reduced because reservoir levels are lowered during the fall resulting in desiccation of exposed surfaces, followed by freezing during winter.
  - The area of reservoir drawdown would expose the shoreline that is anticipated to have the highest populations of mussels based on depth preferences and water temperature. Complete mortality of any mussels in this elevation range would occur.
  - Lowering of reservoirs occurs after temperatures are below the documented thermal threshold for spawning and larval survival; therefore, there would be no new recruitment in the remaining pool of water.

While this vulnerability assessment did not analyze specific introduction pathways, the potential introduction of golden mussels into Lundy Lake should be considered when assessing vulnerability. The pathway considered to have the greatest potential for transporting invasive mussels in the Sierra Nevada is recreation, specifically trailered, motorized watercraft (CDFW et al., 2025). Recreation intercept surveys conducted during the REC-1 Study 2025 found that recreational boaters primarily use non-motorized watercraft on Lundy Lake (SCE, 2026b), which are generally less vulnerable to mussel infestation due to the absence of internal structures that can harbor mussels with trapped water (e.g., bilges, live wells, motor cooling systems). Furthermore, SCE's Invasive Mussel Prevention Plan determined the introduction risk based on recreation to be low (SCE, 2017).

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APPENDIX A
FIELD AND LABORATORY METHODS

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The study area includes Lundy Lake. Three sites in Lundy Lake were co-located with WQ-1 Study sites and included two edgewater locations—Lundy Lake near the boat launch (Site LL-1) and Lundy Lake Dam Day Use Area (Site LL-2)—and one location near the deepest part of Lundy Lake (Site LL-3) (see Figure 3.1-1 of the main text).

Data collected from Lundy Lake as part of the WQ-1 Study modification was used to inform the golden mussel vulnerability and included supplemental in situ water quality data, continuous water temperature data, environmental deoxyribonucleic acid (eDNA) sample analysis, and opportunistic visual surveys. Water quality sampling site identification, site description, location (latitude and longitude), sampling parameters, and dates are provided in Table A-1.

Table A-1. Sampling Locations and Dates

Site Description	Site ID	Location (latitude / longitude)[a]	Sampling Parameter and Dates			
			In Situ Water Quality (2025)	Analytical Water Quality (2025)	Continuous Water Temperature[b] (2025 and 2026)	eDNA (2025)
Lundy Lake near the boat launch	LL-1	38.028292 / -119.238855	NA	7/15, 8/18, 10/21	7/15–7/30/2025, 8/18–10/21/2025[c]	4/30, 8/18, 10/20
Lundy Lake Dam Day Use Area	LL-2	38.031489 / -119.220498			7/16–7/21/2025, 8/19–10/14/2025, 10/20–10/21/2025[c]	7/15, 8/18, 10/20
Lundy Lake	LL-3	38.029258 / -119.227235	4/30, 7/15, 8/18, 9/18, 10/21[d]	4/30, 7/15, 8/18, 9/18, 10/21[d]	7/16/2025–4/21/2026	NA

eDNA = environmental deoxyribonucleic acid; ID = identification; NA = not applicable (no samples collected)

Note:

[a] Unit = decimal degrees; datum = World Geodetic System 1984

[b] Data gaps exist in the continuous water temperature data record for Site LL-1 and Site LL-2 due to lake level fluctuations and represent times when the loggers were out of the water during August 2025.

[c] Water temperature loggers at Lundy Lake Site LL-1 and Site LL-2 were inaccessible because of high water levels during spring 2026. Data collected at these sites between October 2, 2025, and April 20, 2025, are not included.

[d] In situ and analytical water quality data collected on April 30, August 18, and October 21, 2025, were collected under the WQ-1 Study.

1.0 WATER QUALITY

1.1. IN SITU WATER QUALITY

In situ water quality measurements (i.e., spot measurements and profiles) and surface water grab sampling occurred at three sites (LL-1, LL-2, and LL-3) during five sampling events between April 30, 2025, and October 21, 2025 (Figure 3.1-1 in the main text). In situ water temperature, dissolved oxygen, pH, and specific conductance were measured using a multi-parameter water quality sonde (YSI EXO2, Yellow Springs Instruments).

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Table A-2 identifies in situ parameters, methods, and method detection limits that were evaluated. Quality assurance and quality control activities, which included pre- and post-sampling calibration checks of the sonde, were conducted each day of sampling or as appropriate for each sensor, following the manufacturer's instructions.

Table A-2. In Situ Water Quality Methods

Parameter	Method	Method Detection Limit
Water temperature	USEPA 170.1	0.1°C
Dissolved oxygen	SM 4500-O	0.1 mg/L
Specific conductance	SM 2510 A	0.1 µS/cm
pH	SM 4500-H	0.1 standard unit

µS/cm = microsiemen per centimeter; °C = degree Celsius; mg/L = milligram per liter; SM = Standard Method, USEPA = U.S. Environmental Protection Agency

1.2. ANALYTICAL WATER QUALITY

Surface water grab samples were collected at both edge-water sites (LL-1 and LL-2) and the reservoir site (LL-3); surface water grab samples were collected simultaneously with in situ measurements (Section A1.1). Water samples were analyzed for calcium and alkalinity concentrations (Table A-1).

Each grab sample collected was placed in a laboratory-supplied container, labeled, preserved, and stored on ice until delivered to a state-certified water quality laboratory (California Laboratory Services, Rancho Cordova, California). Samples were analyzed according to methods and target reporting limits included in Table A-3. A chain-of-custody record was maintained for each sample container.

Table A-3. Analytical Parameters, Methods, and Reporting Limits for Water Samples

Parameter	Laboratory Method	Reporting Limit or PQL
Calcium	USEPA 200.7	1.0 mg/L
Total alkalinity	SM 2320 B	5 mg/L (as $CaCO_3$)

mg/L = milligram per liter; PQL = practical quantitation limit; SM = Standard Methods; USEPA = U.S. Environmental Protection Agency

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2.0 CONTINUOUS WATER TEMPERATURE

Five continuous water temperature data loggers were deployed across three sites in Lundy Lake, including a vertical array (three loggers at Site LL-3—one each at the surface, middle, and bottom)[1] and two edgewater loggers (one at Site LL-1 and one at Site LL-2) (Figure 3.1-1 of the main text, Table A-1). The array was deployed near the deepest part of the reservoir, and the edgewater loggers were deployed on the shoreline at a maximum depth of 5 feet to reflect surface conditions.

Loggers were deployed at each site on July 15 and 16, 2025. Factory-calibrated water-temperature data loggers (Onset HOBO Pro V2) were tested for accuracy per manufacturer's instructions and placed inside protective housings. Water temperature readings were recorded at 15-minute intervals. Loggers were serviced, cleaned, and downloaded approximately monthly between July and October 2025. Additionally, loggers at the edgewater sites were serviced approximately weekly between August and September 2025 to minimize time the loggers were out of the water due to fluctuating lake water levels. Loggers remained deployed without maintenance between October 2025 and spring 2026. Temperature loggers in the array were downloaded in April 2026; however, loggers at edgewater water Site LL-1 and Site LL-2 were inaccessible because of high water levels during spring 2026.

Water temperature data downloaded during field visits were transferred to Microsoft Excel workbooks and reviewed. Data quality review included identification of periods when the loggers were not recording water temperatures due to servicing, lake level decreases, and other factors (e.g., removal from the lake by recreators). Periods of anomalous water temperature data (e.g., large shifts in the daily minimum to maximum range) were compared with air temperature and field deployment records to determine whether the loggers were reading air or water temperatures.

3.0 ENVIRONMENTAL DNA AND VISUAL OBSERVATIONS

Surface water sampling for eDNA was conducted from the shoreline at Site LL-1 and Site LL-2 during three monitoring events in 2025 (Table A-1). The eDNA samples were collected in the field using a peristaltic pump and following standard protocols (Blankenship and Schumer, 2022; Bergman et al., 2016; Laramie et al., 2015). Triplicate samples (i.e., filters) were collected at each study site to improve detection probability and reduce the potential for false negatives (i.e., the target species being present but not detected). Up to 1.1 liters of surface water were filtered through a 0.45-micrometer Millipore Sterivex™ filter using a peristaltic pump. Negative controls were collected once during each sampling event by filtering 1 liter of distilled water (non-laboratory-grade/commercially available distilled water) prior to sample collection. After filtration, filters were stored on ice during transport (e.g., during field work) and transferred to a freezer until samples were delivered to the laboratory for analysis.

[1] An additional logger was installed near the bottom of Lundy Lake for redundancy in the event of equipment loss or malfunction during winter. Data collected by this logger are not included in this report.

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Genidaqs (West Sacramento, California) performed genetic analysis. DNA was analyzed with quantitative polymerase chain reaction (qPCR) using previously published assays to detect golden mussel (Ito and Shibaike, 2021) and quaqqa/zebra mussels (Gingera et al., 2017). One common aquatic fish species in Lundy Lake (rainbow trout [*Oncorhynchus mykiss*]) was analyzed as an internal positive control (Duda et al., 2021). Laboratory personnel followed best practices for eDNA extraction and created and analyzed an extraction negative and qPCR negative with every extraction batch and qPCR plate (Miya et al., 2016). Samples were analyzed in triplicate and with an internal positive control (i.e., non-target species voucher specimen genomic DNA or GBlock synthetic DNA) to ensure samples were not inhibited (i.e., a negative result signified DNA was not detected; it was not an indication of a failed qPCR reaction).

Opportunistic visual surveys for invasive mussels were performed concurrently with the eDNA sample collection near the boat launch and Lundy Dam Day Use Area at Lundy Lake. Hard and soft surfaces were inspected visually for invasive mussels following survey methods included in CDFW (2021) protocols.

4.0 REFERENCES

Bergman P. S., G. Schumer, S. Blankenship, and E. Campbell. 2016. *Detection of Adult Green Sturgeon Using Environmental DNA Analysis*. PLOS ONE. 2016 April 20;114:e0153500.

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Gingera, T. D., R. Bajno, M. F. Docker, and J. D. Reist. 2017. “Environmental DNA as a detection tool for zebra mussels *Dreissena polymorpha* (Pallas, 1771) at the forefront of an invasion event in Lake Winnipeg, Manitoba, Canada.” *Management of Biological Invasions*, 8(3).

Ito, K., and H. Shibaike. 2021. Use of environmental DNA to survey the distribution of the invasive mussel *Limnoperna fortunei* in farm ponds. *Plankton and Benthos Research*, 16(2), 100–108.

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Miya, M., T. Minamoto, H. Yamanaka, S. I. Oka, K. Sato, S. Yamamoto, T. Sado, and H Doi. 2016. “Use of a filter cartridge for filtration of water samples and extraction of environmental DNA.” *Journal of Visualized Experiments*, 2016; 117.

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APPENDIX B
QUAGGA AND ZEBRA MUSSEL WATER QUALITY ASSESSMENT

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1.0 QUAGGA AND ZEBRA MUSSELS

Quagga (*Dreissena rostriformis bugensis*) and zebra mussels (*Dreissena polymorpha*) are from the same genus, *Dreissena*, and are known as dreissenid mussels. These two species have a similar life history and water quality requirements; therefore, the discussion of these two species is consolidated in the same section of this vulnerability assessment.

1.1. DISTRIBUTION IN CALIFORNIA

Quagga and zebra mussels are native to the Black and Caspian seas in Europe and are invasive to North America. These mussels were first discovered in North America in the 1980s and have caused considerable economic and environmental damage in the Great Lakes, Mississippi River basin, and other waterbodies in the eastern and mid-western United States.

In early 2007, quagga mussels were detected for the first time in the west, specifically in the Colorado River basin. Later that year, quagga mussels were found in a reservoir in Southern California. Zebra mussels were first detected at San Justo Reservoir in San Benito County in 2008. As of September 2025, quagga and zebra mussels have been confirmed in 44 locations, which are primarily in Southern California counties, including San Diego, Riverside, Orange, Los Angeles, and Ventura (Figure 2; CDFW, 2025). The closest established dreissenid (quagga and zebra) mussel population occurs at the San Justo Reservoir and Ridgemark Golf Course in San Benito County, approximately 140 miles from the Lundy Hydroelectric Project (CDFW, 2025).

1.2. WATER QUALITY TOLERANCES

Invasive mussel colonization requires water quality conditions suitable for all life stages, including spawning, larval development sand settlement, juvenile growth and development, and adult survival. Table B-1 presents the likelihood of quagga and zebra mussel establishment based on literature values.

Table B-1. Likelihood of Quagga Mussel and Zebra Mussel Establishment for Various Water Quality Conditions

Parameter	Likelihood of Quagga and Zebra Mussel[a] Establishment		
	Low	Moderate	High
Minimum and maximum temperature (degrees Celsius)	<15 or >32	16–26	26–32
Calcium (mg/L)	<15	15–25	>25
pH (standard units)	<5	5–7	7–9

< = less than; > = greater than; mg/L = milligram per liter
Note:
[a] Literature values from Cohen and Weinstein (1998), and Cohen (2008)

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2.0 WATER QUALITY ASSESSMENT

Calcium concentrations in Lundy Lake collected during 2025 were within the low likelihood for quagga and zebra mussel establishment threshold (Figure B-1). pH concentrations collected were within the moderate-to-high likelihood for quagga and zebra mussel establishment thresholds (Figure B-2). Water temperatures in the edgewater, surface, and middle waters during the summer were within the moderate likelihood for quagga and zebra mussel establishment threshold (Figure B-2, Figure B-3). Spring and fall water temperatures in Lundy Lake were cooler and within the low likelihood for establishment threshold (Figure B-3).

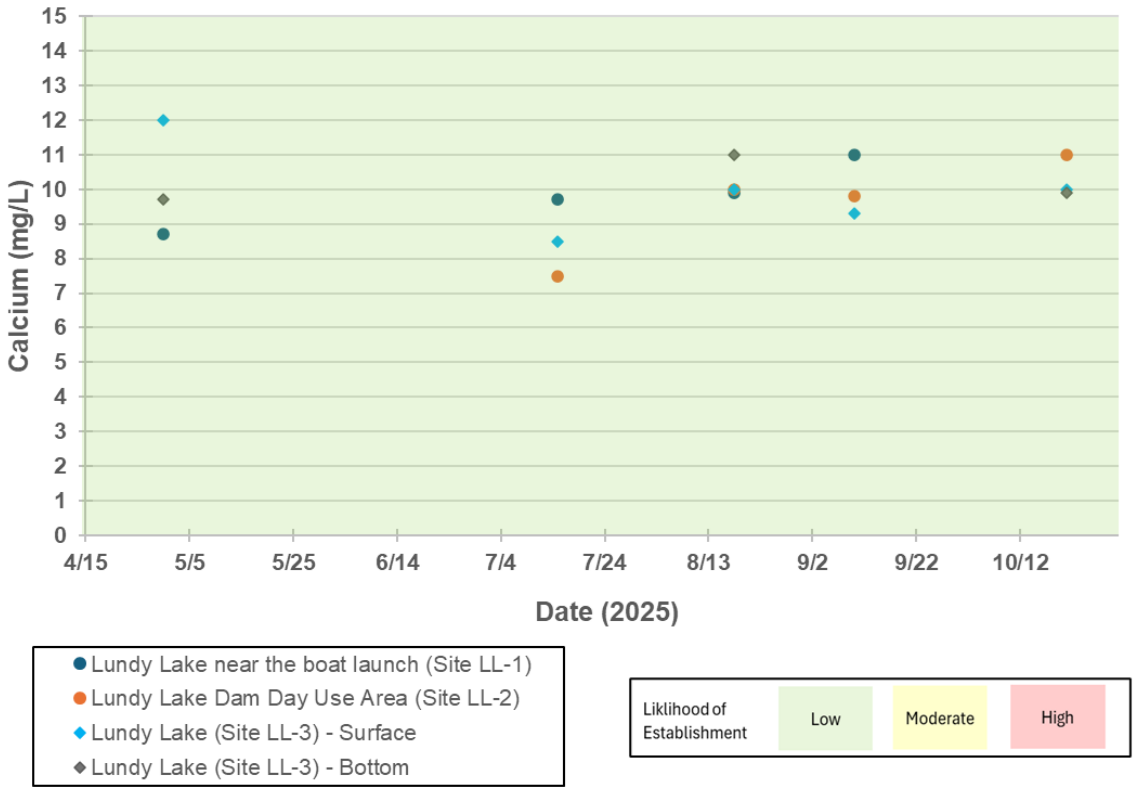


Figure B-1. Likelihood of Quagga and Zebra Mussel Establishment in Lundy Lake Based on Calcium Data, 2025.

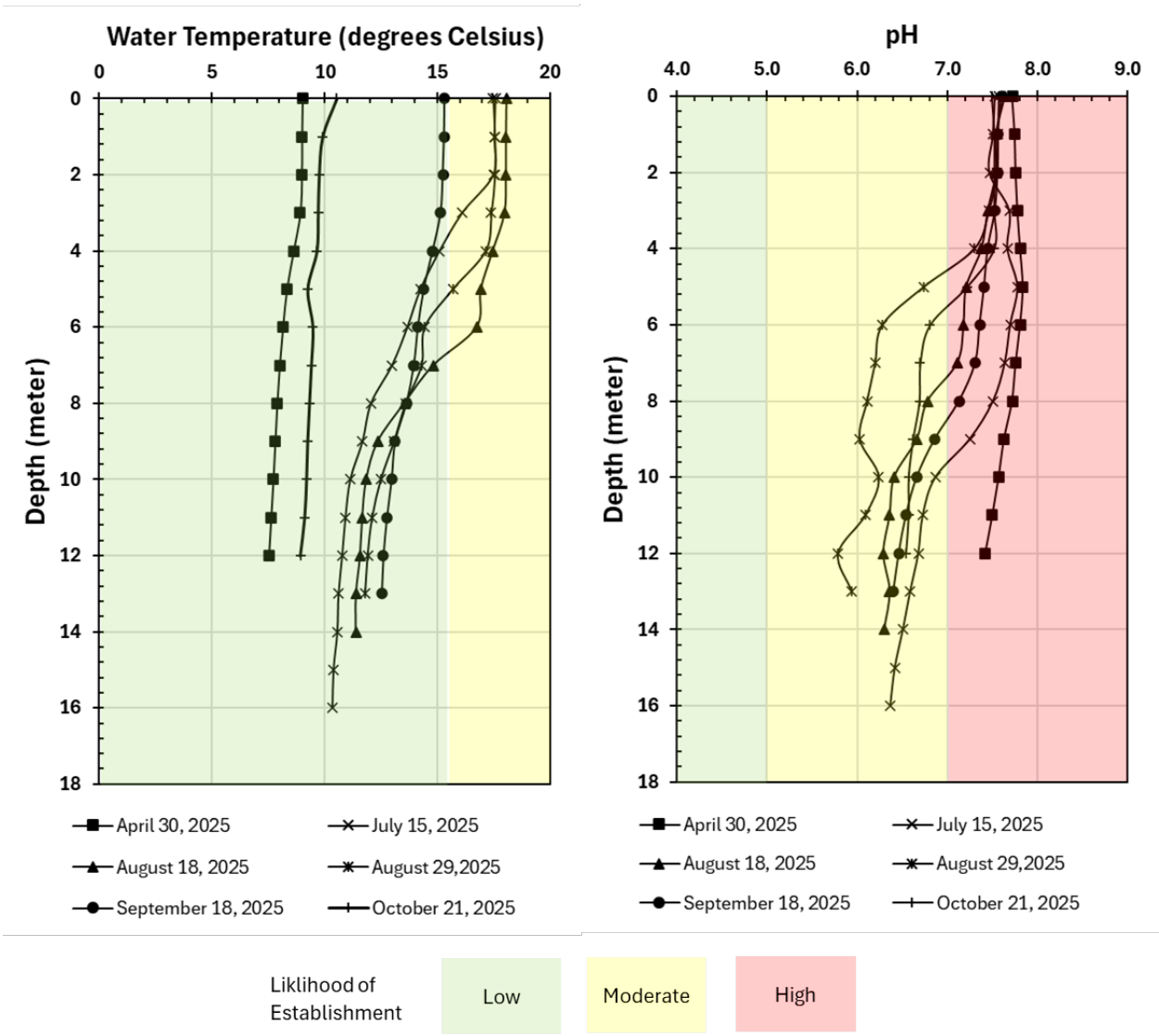


Figure B-2. Likelihood of Quagga and Zebra Mussel Establishment in Lundy Lake Based on Water Temperature and pH Vertical Profiles, 2025.

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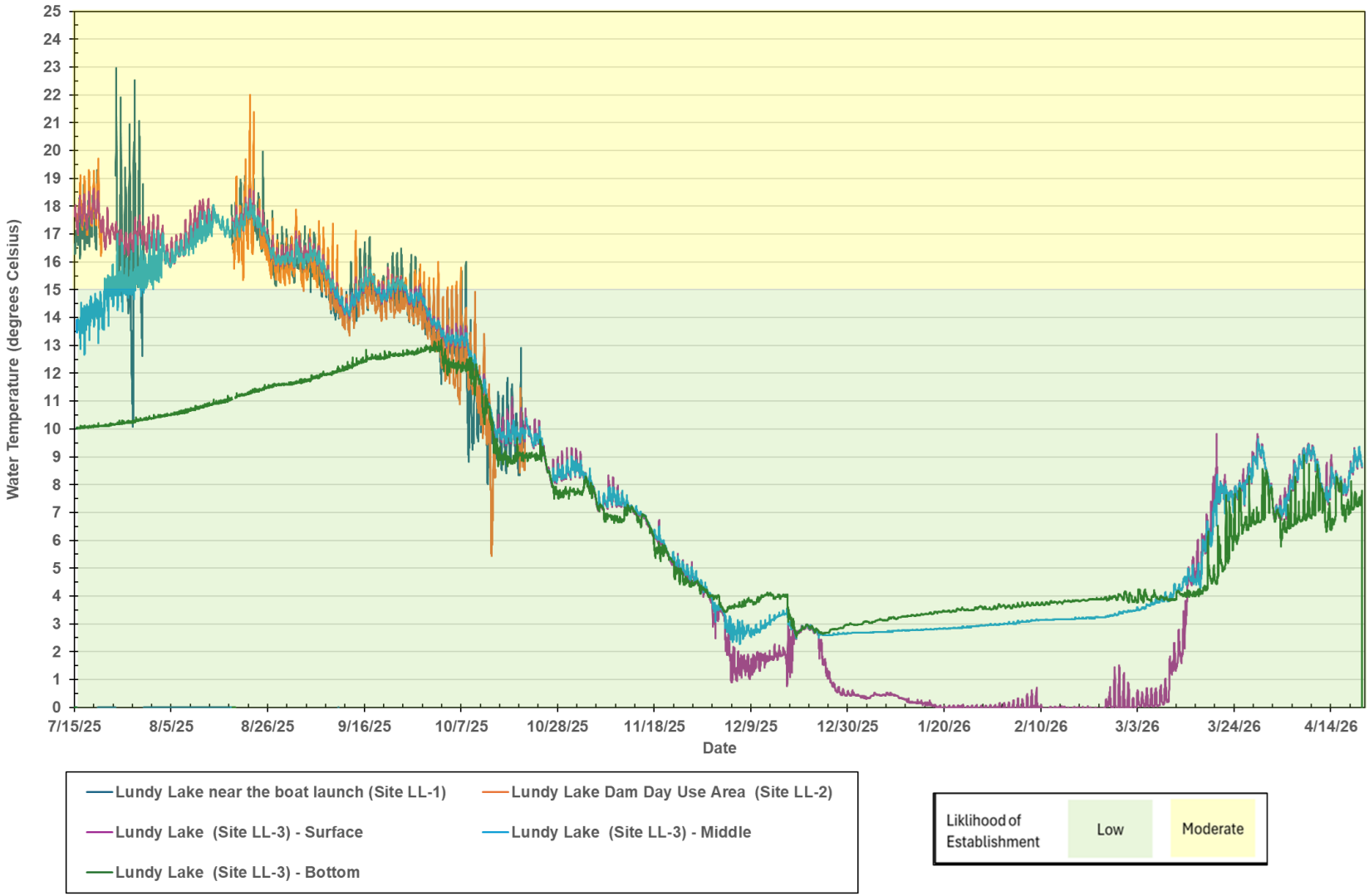


Figure B-3. Likelihood of Quagga and Zebra Mussel Establishment in Lundy Lake Based on Continuous Water Temperature, 2025.

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3.0 REFERENCES

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APPENDIX C
ENVIRONMENTAL DNA LABORATORY REPORTS

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Molecular Diagnostic Report

Report Status: Final
Report No: 5/15/2025
Contract No:

Client

Name: Stillwater Sciences

Contact: Christina Buck
cbuck@stillwatersci.com

Service Description

Sample type:
Sterivex
Analysis type:
Quantitative PCR
Received date: 5/6/2025
Reporting date: 5/15/2025

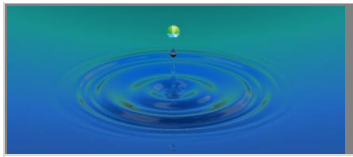
Description

Lundy Relicensing

Molecular Diagnostics

Samples	Laboratory Tests			Supplemental Sample Information
Identifier	GoldMussel*	INVMUS*	RBT_JD	Comments
WQ-LL-3a	ND	ND	ND	
WQ-LL-3b	ND	ND	ND	
WQ-LL-3c	ND	ND	ND	
Field Blank-04302025	ND	ND	ND	
Postive Control	(+)	(+)	(+)	
Extraction Control	ND	ND	ND	
NTC	ND	ND	ND	

*qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.



Supplemental
Descriptions of procedures, methods, laboratory tests

Methods General

1 Field sample collections procedures followed Blankenship and Schumer (2022) and Bergman et al. (2016).

2 Total DNA was isolated from each eDNA sample (filter) following a modified Miya et al. (2016) protocol.

3 DNA templates were interrogated for the presence of target species mitochondrial DNA (barcodes) using quantitative PCR.

4 Three technical replicates are run for each sample. If two or more technical replicates test positive for target DNA, then the sample is considered positive (+). If all three technical replicates test negative, the sample is considered non-detected (ND).

5 If any sample had a single technical replicate test positive, five additional technical replicates were run for that sample. If any technical replicate in the second run tests positive, the sample is reported as positive (+)*, if all three subsequent technical replicates test negative, the sample is reported as negative (ND)*. Any sample that was run a second time is marked with a asterisk (*).

6 Positive controls (voucher specimen genomic DNA or GBlock synthetic DNA) are added to each plate to ensure qPCR process success and plate to plate

7 DNA extraction negative controls are processed in parallel to ensure sample integrity throughout extraction procedure.

8 No template controls (NTC) are added to each plate to ensure plate to plate consistency.

9 *qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.

Laboratory test (assay)

Code	Common Name	Species Name	Publication
GoldMussel*	Golden Mussel	Limnoperna fortunei	Ito, K., & Shibaike, H. (2021). Use of environmental DNA to survey the distribution of the invasive mussel Limnoperna fortunei in farm ponds. Plankton and Benthos Research, 16(2), 100-108.
INVMUS*	Invasive Mussel	Dreissena polymorpha/rostriformis	Gingera, T. D., Bajno, R., Docker, M. F., & Reist, J. D. (2017). Environmental DNA as a detection tool for zebra mussels Dreissena polymorpha (Pallas, 1771) at the forefront of an invasion event in Lake Winnipeg, Manitoba, Canada. Management of Biological Invasions, 8(3).
RBT_JD	Rainbow Trout/Steelhead	Oncorhynchus mykiss	Duda, J. J., Hoy, M. S., Chase, D. M., Pess, G. R., Brenkman, S. J., McHenry, M. M., & Ostberg, C. O. (2021). Environmental DNA is an effective tool to track recolonizing migratory fish following large-scale dam removal. Environmental DNA, 3(1), 121-141.

References

Bergman PS, Schumer G, Blankenship S, Campbell E. Detection of Adult Green Sturgeon Using Environmental DNA Analysis. PLOS ONE. 2016 Apr 20;114:e0153500.

Blankenship, S. and G. Schumer. 2022. Field collection procedure for aquatic environmental DNA sample collection and analysis. Cramer Fish Sciences - Genidaqs, West Sacramento, CA. 12p.

Miya M, Minamoto T, Yamanaka H, Oka SI, Sato K, Yamamoto S, et al. Use of a filter cartridge for filtration of water samples and extraction of environmental DNA. Journal of visualized experiments: JoVE. 2016; 117.

Molecular Diagnostic Report

Report Status: Final
Report No: 8/4/2025
Contract No:

Client

Name: Stillwater Sciences

Contact: Christina Buck
cbuck@stillwatersci.com

Service Description

Sample type:
Sterivex
Analysis type:
Quantitative PCR
Received date: 7/24/2025
Reporting date: 8/4/2025

Description

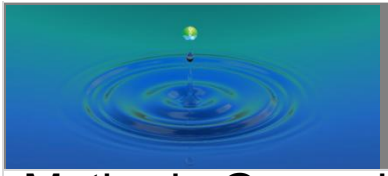
Lundy Relicensing

Molecular Diagnostics

Identifier	GoldMussel*	QuaZeb	RBT_JD
WT-LL-12-EDNA 1	ND	ND	(+)
WT-LL-12-EDNA 2	ND	ND	(+)
WT-LL-12-EDNA 3	ND	ND	(+)
Field Blank-WT-LL-12-BLANK	ND	ND	ND
Positive Control	(+)	(+)	(+)
Extraction Control	ND	ND	ND
NTC	ND	ND	ND

Comments

*qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.



Supplemental
Descriptions of procedures, methods, laboratory tests

Methods General

1 Field sample collections procedures followed Blankenship and Schumer (2022) and Bergman et al. (2016).
2 Total DNA was isolated from each eDNA sample (filter) following a modified Miya et al. (2016) protocol.
3 DNA templates were interrogated for the presence of target species mitochondrial DNA (barcodes) using quantitative PCR.
4 If any technical replicate tests positive for target DNA, then sample is considered (+), otherwise sample is non-detected (ND).
5 Positive controls (voucher specimen genomic DNA or GBlock synthetic DNA) are added to each plate to ensure qPCR process success and plate to plate consistency.
6 DNA extraction negative controls are processed in parallel to ensure sample integrity throughout extraction procedure.
7 No template controls (NTC) are added to each plate to ensure plate to plate consistency.

Laboratory Test (Assay)

Code	Common Name	Species Name	Publication
GoldMussel*	Golden Mussel	*Limnoperna fortunei*	Ito, K., & Shibaike, H. (2021). Use of environmental DNA to survey the distribution of the invasive mussel Limnoperna fortunei in farm ponds. Plankton and Benthos Research, 16(2), 100-108.
QuaZeb	Quagga Mussel and Zebra Mussel	*Dreissena polymorpha/rostriformis*	Gingera, Timothy D. et al. "Environmental DNA as a detection tool for zebra mussels Dreissena polymorpha (Pallas, 1771) at the forefront of an invasion event in Lake Winnipeg, Manitoba, Canada." Management of Biological Invasions 8 (2017): 287-300.
RBT_JD	Rainbow Trout/Steelhead	*Oncorhynchus mykiss*	Duda, J. J., Hoy, M. S., Chase, D. M., Pess, G. R., Brenkman, S. J., McHenry, M. M., & Ostberg, C. O. (2021). Environmental DNA is an effective tool to track recolonizing migratory fish following large-scale dam removal. Environmental DNA, 3(1), 121-141.

References

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Blankenship, S. and G. Schumer. 2022. Field collection procedure for aquatic environmental DNA sample collection and analysis. Cramer Fish Sciences - Genidaqs, West Sacramento, CA. 12p.

Miya M, Minamoto T, Yamanaka H, Oka SI, Sato K, Yamamoto S, et al. Use of a filter cartridge for filtration of water samples and extraction of environmental DNA. Journal of visualized experiments: JoVE. 2016; 117.

Molecular Diagnostic Report

Report Status: Final
Report No: 9/4/2025
Contract No:

Client

Name: Stillwater Sciences

Contact: Christina Buck
cbuck@stillwatersci.com

Service Description

Sample type:
Sterivex
Analysis type:
Quantitative PCR
Received date: 8/21/2025
Reporting date: 9/4/2025

Description

Lundy Relicensing

Molecular Diagnostics

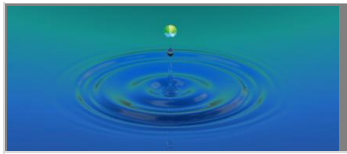
Samples

Identifier	QuaZeb*	GoldMus*	RBT
WQ-LL-3-a	ND	ND	(+)
WQ-LL-3-b	ND	ND	(+)
WQ-LL-3-c	ND	ND	(+)
WT-LL-a	ND	ND	(+)
WT-LL-b	ND	ND	(+)
WT-LL-c	ND	ND	(+)
Field Blank	ND	ND	ND
Positive Control	(+)	(+)	(+)
Extraction Control	ND	ND	ND
NTC	ND	ND	ND

Supplemental Sample Information

Comments

*qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.



Supplemental
Descriptions of procedures, methods, laboratory tests

Methods General

1 Field sample collections procedures followed Blankenship and Schumer (2022) and Bergman et al. (2016).

2 Total DNA was isolated from each eDNA sample (filter) following a modified Miya et al. (2016) protocol.

3 DNA templates were interrogated for the presence of target species mitochondrial DNA (barcodes) using quantitative PCR.

4 Three technical replicates are run for each sample. If two or more technical replicates test positive for target DNA, then the sample is considered positive (+). If all three technical replicates test negative, the sample is considered non-detected (ND).

5 Positive controls (voucher specimen genomic DNA or GBlock synthetic DNA) are added to each plate to ensure qPCR process success and plate to plate consistency.

6 If any sample had a single technical replicate test positive, three additional technical replicates were run for that sample. If any technical replicate in the second run tests positive, the sample is reported as positive (+)**, if all three subsequent technical replicates test negative, the sample is reported as negative (ND)**. Any sample that was run a second time is marked with two asterisk (**).

7 DNA extraction negative controls are processed in parallel to ensure sample integrity throughout extraction procedure.

8 No template controls (NTC) are added to each plate to ensure plate to plate consistency.

9 *qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.

Laboratory Test (Assay)

Code	Common Name	Species Name	Publication
QuaZeb*	Quagga Mussel and Zebra Mussel	*Dreissena polymorpha/rostriformis*	Gingera, Timothy D. et al. "Environmental DNA as a detection tool for zebra mussels Dreissena polymorpha (Pallas, 1771) at the forefront of an invasion event in Lake Winnipeg, Manitoba, Canada." Management of Biological Invasions 8 (2017): 287-300.
GoldMus*	Golden Mussel	*Limnoperna fortunei*	Ito, K., & Shibaike, H. (2021). Use of environmental DNA to survey the distribution of the invasive mussel Limnoperna fortunei in farm ponds. Plankton and Benthos Research, 16(2), 100-108.
RBT	Rainbow Trout/Steelhead	*Oncorhynchus mykiss*	Duda, J. J., Hoy, M. S., Chase, D. M., Pess, G. R., Brenkman, S. J., McHenry, M. M., & Ostberg, C. O. (2021). Environmental DNA is an effective tool to track recolonizing migratory fish following large-scale dam removal. Environmental DNA, 3(1), 121-141.

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Blankenship, S. and G. Schumer. 2022. Field collection procedure for aquatic environmental DNA sample collection and analysis. Cramer Fish Sciences - Genidaqs, West Sacramento, CA. 12p.

Miya M, Minamoto T, Yamanaka H, Oka SI, Sato K, Yamamoto S, et al. Use of a filter cartridge for filtration of water samples and extraction of environmental DNA. Journal of visualized experiments: JoVE. 2016; 117.

Molecular Diagnostic Report

Report Status: Final
Report No: 11/4/2025
Contract No:

Client

Name: Stillwater Sciences

Contact: Christina Buck
cbuck@stillwatersci.com

Service Description

Sample type:
Sterivex (Highly Invasive Species)
Analysis type:
Quantitative PCR
Received date: 10/23/2025
Reporting date: 11/4/2025

Description

Lundy Relicensing - Mono County

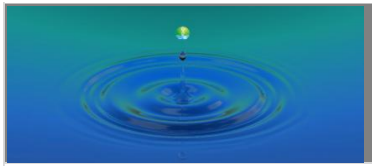
Molecular Diagnostics

Identifier	GoldMussel*	Quag/Zeb*	RBT_JD
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WQ-LL-1-b	ND	ND	(+)
WQ-LL-1-c	ND	ND	(+)
GM-LL-2-a	ND	ND	(+)
GM-LL-2-b	ND	ND	(+)
GM-LL-2-c	ND	ND	(+)
Field Blank	ND	ND	ND
Positive Control	(+)	(+)	(+)
Extraction Control	ND	ND	ND
NTC	ND	ND	ND

Supplemental Sample Information

Comments

*qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.



Supplemental
Descriptions of procedures, methods, laboratory tests

Methods General

1 Field sample collections procedures followed Blankenship and Schumer (2022) and Bergman et al. (2016).

2 Total DNA was isolated from each eDNA sample (filter) following a modified Miya et al. (2016) protocol.

3 DNA templates were interrogated for the presence of target species mitochondrial DNA (barcodes) using quantitative PCR (qPCR) using Applied Biosystems QuantStudio™ 3 System.

4 *qPCR assays designed to detect highly invasive species are provided for research purposes only. Positive and negative detections should be interpreted cautiously and require visual observation to confirm results.

5 Three technical replicates are run for each sample. If two or more technical replicates test positive for target DNA, then the sample is considered positive (+). If all three technical replicates test negative, the sample is considered non-detected (ND).

6 If any sample had a single technical replicate test positive, three additional technical replicates were run for that sample. If any technical replicate in the second run tests positive, the sample is reported as positive (+)†, if all three subsequent technical replicates test negative, the sample is reported as negative (ND)†. Any sample that was run a second time is marked with a dagger (†).

7 Positive controls (voucher specimen genomic DNA or GBlock synthetic DNA) are added to each plate to confirm qPCR process success and plate to plate consistency.

8 DNA extraction negative controls are processed in parallel to ensure sample integrity throughout extraction procedure.

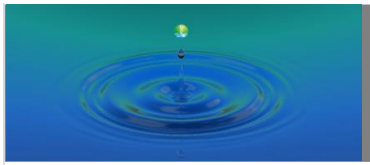
9 No template controls (NTC) are added to each plate to ensure plate to plate consistency.

10 All qPCR assays were optimized, then tested using a tissue based DNA extraction or gblock and 10-fold serial dilution to confirm that MIQE

11 qPCR cycling did not exceed 40 cycles.

12 Baseline threshold is established using Quant Studio Design and Analysis Software. Baseline threshold value is based on assay's standard curve dilution series Cq values and is applied to all qPCR runs for a given assay to ensure plate to plate consistency.

13 Positive control Cq value (quantification) is compared between qPCR runs to ensure run to run consistancy. Any plates with positive control quantifications that deviate outside of expected conditions are re-run.



Supplemental
Descriptions of procedures, methods, laboratory tests

Laboratory Test (Assay)

GoldMussel*	Golden Mussel	*Limnoperna fortunei*	Ito, K., & Shibaike, H. (2021). Use of environmental DNA to survey the distribution of the invasive mussel Limnoperna fortunei in farm ponds. Plankton and Benthos Research, 16(2), 100-108.
Quag/Zeb*	Quagga/Zebra Mussel	*Dreissena polymorpha/rostriformis*	Gingera, Timothy D. et al. "Environmental DNA as a detection tool for zebra mussels Dreissena polymorpha (Pallas, 1771) at the forefront of an invasion event in Lake Winnipeg, Manitoba, Canada." Management of Biological Invasions 8 (2017): 287-300.
RBT_JD	Rainbow Trout/Steelhead	*Oncorhynchus mykiss*	Duda, J. J., Hoy, M. S., Chase, D. M., Pess, G. R., Brenkman, S. J., McHenry, M. M., & Ostberg, C. O. (2021). Environmental DNA is an effective tool to track recolonizing migratory fish following large-scale dam removal. Environmental DNA, 3(1), 121-141.

References

Bergman PS, Schumer G, Blankenship S, Campbell E. Detection of Adult Green Sturgeon Using Environmental DNA Analysis. PLOS ONE. 2016 Apr 20;114:e0153500.

Blankenship, S. and G. Schumer. 2022. Field collection procedure for aquatic environmental DNA sample collection and analysis. Cramer Fish Sciences - Genidaqs, West Sacramento, CA. 12p.

Miya M, Minamoto T, Yamanaka H, Oka SI, Sato K, Yamamoto S, et al. Use of a filter cartridge for filtration of water samples and extraction of environmental DNA. Journal of visualized experiments: JoVE. 2016; 117.

Bustin, SA, Benes, V, Garson, JA, Hellemans , J, Huggett, J, Kubista, M, Mueller, R, Nolan, T, Pfaffl, MW, Shipley GL, Vandesompele, J, Wittwer CT. The MIQE guidelines: minimum information for publication of quantitative real-time PCR experiments. Clinical Chemistry. 2009 Apr; 55(4): 611-22. doi: 10.1373/clinchem.2008.112797

APPENDIX C
RESERVOIR AND STREAM ANALYTICAL LABORATORY REPORTS

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CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

May 12, 2025

CLS Work Order #: 25E0021
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:26. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (25E0021-01) Water	**Sampled: 04/30/25 09:00**		**Received: 05/01/25 13:26**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2503710	05/06/25	05/06/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	ND	0.50	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**20**	0.026	0.50	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503578	05/01/25	05/01/25	SM4500-P E	
Sulfate as SO4	**0.17**	0.038	0.50	"	"	2503577	05/01/25	05/01/25	EPA 300.0	J
Total Alkalinity	ND	1.0	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Total Dissolved Solids	ND	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.14**	0.040	0.20	"	"	2503708	05/06/25	05/07/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2503715	05/06/25	05/07/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2503688	05/06/25	05/06/25	SM2540D	
WQ-LL-3 (surf.) (25E0021-02) Water	**Sampled: 04/30/25 11:15**		**Received: 05/01/25 13:26**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2503710	05/06/25	05/06/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**21**	0.50	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.65**	0.026	0.50	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	"	"	2503733	05/07/25	05/07/25	EPA 1664B	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503578	05/01/25	05/01/25	SM4500-P E	
Sulfate as SO4	**14**	0.038	0.50	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Total Alkalinity	**21**	1.0	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Total Dissolved Solids	**58**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	

05/12/25 10:49

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25E0021
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 (surf.) (25E0021-02) Water	**Sampled: 04/30/25 11:15**		**Received: 05/01/25 13:26**							
Total Kjeldahl Nitrogen	**0.084**	0.040	0.20	mg/L	1	2503708	05/06/25	05/07/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2503715	05/06/25	05/07/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2503688	05/06/25	05/06/25	SM2540D	
WQ-LL-3 (bottom) (25E0021-03) Water	**Sampled: 04/30/25 11:30**		**Received: 05/01/25 13:26**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2503710	05/06/25	05/06/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**20**	0.50	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.57**	0.026	0.50	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503578	05/01/25	05/01/25	SM4500-P E	
Sulfate as SO4	**15**	0.038	0.50	"	"	2503577	05/01/25	05/01/25	EPA 300.0	
Total Alkalinity	**20**	1.0	5.0	"	"	2503761	05/07/25	05/07/25	SM2320B	
Total Dissolved Solids	**53**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.11**	0.040	0.20	"	"	2503708	05/06/25	05/07/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2503715	05/06/25	05/07/25	SM5310B	
Total Organic Carbon, Dissolved	**0.66**	0.54	1.0	"	"	"	"	"	SM 5310B	J
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2503688	05/06/25	05/06/25	SM2540D	

05/12/25 10:49

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25E0021
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (25E0021-01) Water	**Sampled: 04/30/25 09:00**		**Received: 05/01/25 13:26**							
Antimony	ND	0.34	6.0	µg/L	1	2503652	05/05/25	05/06/25	EPA 200.8	
Arsenic	**0.52**	0.45	2.0	"	"	"	"	"	"	J
Barium	ND	1.6	20	"	"	2503687	05/06/25	05/06/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503652	05/05/25	05/06/25	EPA 200.8	
Cadmium	**0.19**	0.17	0.50	"	"	"	"	"	"	J
Calcium	**0.14**	0.044	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Chromium	**0.44**	0.14	1.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.20**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.15**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	ND	0.043	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503690	05/06/25	05/06/25	EPA 245.1	
Molybdenum	**0.38**	0.11	2.0	"	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**0.39**	0.029	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Thallium	**0.10**	0.030	1.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**2.1**	0.27	10	"	"	"	"	"	"	J
WQ-LL-3 (surf.) (25E0021-02) Water	**Sampled: 04/30/25 11:15**		**Received: 05/01/25 13:26**							
Antimony	ND	0.34	6.0	µg/L	1	2503652	05/05/25	05/06/25	EPA 200.8	
Arsenic	**3.4**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.7**	1.6	20	"	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2503652	05/05/25	05/06/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	

05/12/25 10:49

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25E0021
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 (surf.) (25E0021-02) Water	**Sampled: 04/30/25 11:15**		**Received: 05/01/25 13:26**							
Copper	**0.26**	0.090	2.0	µg/L	1	2503652	"	05/06/25	EPA 200.8	J
Lead	**0.18**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.55**	0.043	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2503690	05/06/25	05/06/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.84**	0.13	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Selenium	ND	0.75	5.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.9**	0.029	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	
Thallium	**0.066**	0.030	1.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.55**	0.27	10	"	"	"	"	"	"	J
WQ-LL-3 (bottom) (25E0021-03) Water	**Sampled: 04/30/25 11:30**		**Received: 05/01/25 13:26**							
Antimony	ND	0.34	6.0	µg/L	1	2503652	05/05/25	05/06/25	EPA 200.8	
Arsenic	**3.7**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.4**	1.6	20	"	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2503652	05/05/25	05/06/25	EPA 200.8	
Cadmium	**0.38**	0.17	0.50	"	"	"	"	"	"	J
Calcium	**11**	0.044	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.37**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.22**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.50**	0.043	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2503690	05/06/25	05/06/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.87**	0.13	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	J
Selenium	**1.0**	0.75	5.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	J

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 (bottom) (25E0021-03) Water	**Sampled: 04/30/25 11:30**		**Received: 05/01/25 13:26**							
Silver	ND	0.070	0.50	µg/L	1	2503652	"	05/06/25	EPA 200.8	
Sodium	**1.8**	0.029	1.0	mg/L	"	2503687	05/06/25	05/06/25	EPA 200.7	
Thallium	**0.059**	0.030	1.0	µg/L	"	2503652	05/05/25	05/06/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.60**	0.27	10	"	"	"	"	"	"	J

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503577 - General Prep											
Blank (2503577-BLK1)					Prepared & Analyzed: 05/01/25						
Sulfate as SO4	ND	0.038	0.50	mg/L							
Chloride	ND	0.026	0.50	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2503577-BS1)					Prepared & Analyzed: 05/01/25						
Chloride	4.97	0.026	0.50	mg/L	5.00		99	80-120			
Sulfate as SO4	5.06	0.038	0.50	"	5.00		101	80-120			
Nitrate as N	1.98	0.053	0.40	"	2.00		99	80-120			
LCS Dup (2503577-BSD1)					Prepared & Analyzed: 05/01/25						
Chloride	5.01	0.026	0.50	mg/L	5.00		100	80-120	0.7	20	
Sulfate as SO4	5.14	0.038	0.50	"	5.00		103	80-120	2	20	
Nitrate as N	1.99	0.053	0.40	"	2.00		100	80-120	0.7	20	
Matrix Spike (2503577-MS1)			**Source: 25D1460-05**		Prepared & Analyzed: 05/01/25						
Chloride	37.7	0.026	0.50	mg/L	5.00	34.1	72	80-120			QM-7
Sulfate as SO4	22.0	0.038	0.50	"	5.00	17.1	97	80-120			
Nitrate as N	3.88	0.053	0.40	"	2.00	1.85	102	80-120			
Matrix Spike Dup (2503577-MSD1)			**Source: 25D1460-05**		Prepared & Analyzed: 05/01/25						
Chloride	37.7	0.026	0.50	mg/L	5.00	34.1	72	80-120	0.03	20	QM-7
Sulfate as SO4	22.0	0.038	0.50	"	5.00	17.1	98	80-120	0.1	20	
Nitrate as N	3.89	0.053	0.40	"	2.00	1.85	102	80-120	0.2	20	
Batch 2503578 - General Preparation											
Blank (2503578-BLK1)					Prepared & Analyzed: 05/01/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503578 - General Preparation											
LCS (2503578-BS1)					Prepared & Analyzed: 05/01/25						
Orthophosphate as PO4	0.942	0.0051	0.15	mg/L	0.918		103	80-120			
LCS Dup (2503578-BSD1)					Prepared & Analyzed: 05/01/25						
Orthophosphate as PO4	0.942	0.0051	0.15	mg/L	0.918		103	80-120	0	20	
Matrix Spike (2503578-MS1)			**Source: 25D1468-01**		Prepared & Analyzed: 05/01/25						
Orthophosphate as PO4	1.69	0.010	0.30	mg/L	0.918	0.598	119	75-125			
Matrix Spike Dup (2503578-MSD1)			**Source: 25D1468-01**		Prepared & Analyzed: 05/01/25						
Orthophosphate as PO4	1.50	0.010	0.30	mg/L	0.918	0.598	98	75-125	12	25	
Batch 2503654 - General Preparation											
Blank (2503654-BLK1)					Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2503654-BS1)					Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.333	0.023	0.050	mg/L	0.300		111	80-120			
LCS Dup (2503654-BSD1)					Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.305	0.023	0.050	mg/L	0.300		102	80-120	9	25	
Matrix Spike (2503654-MS1)			**Source: 25D1468-01**		Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.615	0.023	0.050	mg/L	0.300	0.279	112	75-125			
Matrix Spike Dup (2503654-MSD1)			**Source: 25D1468-01**		Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.630	0.023	0.050	mg/L	0.300	0.279	117	75-125	2	30	

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503676 - General Preparation											
Blank (2503676-BLK1)					Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	ND	5.0	10	mg/L							
LCS (2503676-BS1)					Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120			
LCS Dup (2503676-BSD1)					Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	48.0	5.0	10	mg/L	50.0		96	80-120	2	200	
Duplicate (2503676-DUP1)			**Source: 25D1428-01**		Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	ND	5.0	10	mg/L		ND				20	
Batch 2503688 - General Preparation											
Blank (2503688-BLK1)					Prepared & Analyzed: 05/06/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							
LCS (2503688-BS1)					Prepared & Analyzed: 05/06/25						
Total Suspended Solids	102	2.5	2.5	mg/L	100		102	80-120			
LCS Dup (2503688-BSD1)					Prepared & Analyzed: 05/06/25						
Total Suspended Solids	91.1	2.5	2.5	mg/L	100		91	80-120	11	200	
Duplicate (2503688-DUP1)			**Source: 25E0023-01**		Prepared & Analyzed: 05/06/25						
Total Suspended Solids	327	19	19	mg/L		321			2	20	
Batch 2503708 - General Preparation											
Blank (2503708-BLK1)					Prepared: 05/06/25 Analyzed: 05/07/25						
Total Kjeldahl Nitrogen	0.0520	0.040	0.20	mg/L							J

05/12/25 10:49

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25E0021
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503708 - General Preparation											
LCS (2503708-BS1)					Prepared: 05/06/25 Analyzed: 05/07/25						
Total Kjeldahl Nitrogen	0.516	0.040	0.20	mg/L	0.500		103	80-120			
LCS Dup (2503708-BSD1)					Prepared: 05/06/25 Analyzed: 05/07/25						
Total Kjeldahl Nitrogen	0.504	0.040	0.20	mg/L	0.500		101	80-120	2	20	
Matrix Spike (2503708-MS1)			**Source: 25E0021-01**		Prepared: 05/06/25 Analyzed: 05/07/25						
Total Kjeldahl Nitrogen	0.587	0.040	0.20	mg/L	0.500	0.135	90	75-125			
Matrix Spike Dup (2503708-MSD1)			**Source: 25E0021-01**		Prepared: 05/06/25 Analyzed: 05/07/25						
Total Kjeldahl Nitrogen	0.518	0.040	0.20	mg/L	0.500	0.135	77	75-125	12	25	
Batch 2503710 - General Preparation											
Blank (2503710-BLK1)					Prepared & Analyzed: 05/06/25						
Ammonia as N	ND	0.025	0.10	mg/L							
LCS (2503710-BS1)					Prepared & Analyzed: 05/06/25						
Ammonia as N	0.510	0.025	0.10	mg/L	0.500		102	80-120			
LCS Dup (2503710-BSD1)					Prepared & Analyzed: 05/06/25						
Ammonia as N	0.481	0.025	0.10	mg/L	0.500		96	80-120	6	25	
Matrix Spike (2503710-MS1)			**Source: 25D1459-03**		Prepared & Analyzed: 05/06/25						
Ammonia as N	0.603	0.025	0.10	mg/L	0.500	0.0860	103	75-125			
Matrix Spike Dup (2503710-MSD1)			**Source: 25D1459-03**		Prepared & Analyzed: 05/06/25						
Ammonia as N	0.596	0.025	0.10	mg/L	0.500	0.0860	102	75-125	1	25	

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503715 - General Preparation											
Blank (2503715-BLK1)					Prepared: 05/06/25 Analyzed: 05/07/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							
LCS (2503715-BS1)					Prepared: 05/06/25 Analyzed: 05/07/25						
Total Organic Carbon	11.1	0.54	1.0	mg/L	10.0		111	75-125			
Total Organic Carbon, Dissolved	11.1	0.54	1.0	"	10.0		111	75-125			
LCS Dup (2503715-BSD1)					Prepared: 05/06/25 Analyzed: 05/07/25						
Total Organic Carbon	11.1	0.54	1.0	mg/L	10.0		111	75-125	0.2	25	
Total Organic Carbon, Dissolved	11.1	0.54	1.0	"	10.0		111	75-125	0.2	25	
Matrix Spike (2503715-MS1)			**Source: 25E0021-01**		Prepared: 05/06/25 Analyzed: 05/07/25						
Total Organic Carbon	11.8	0.54	1.0	mg/L	10.0	ND	118	75-125			
Total Organic Carbon, Dissolved	11.8	0.54	1.0	"	10.0	ND	118	75-125			
Matrix Spike Dup (2503715-MSD1)			**Source: 25E0021-01**		Prepared: 05/06/25 Analyzed: 05/07/25						
Total Organic Carbon	11.4	0.54	1.0	mg/L	10.0	ND	114	75-125	3	25	
Total Organic Carbon, Dissolved	11.4	0.54	1.0	"	10.0	ND	114	75-125	3	30	
Batch 2503733 - Solvent Extract											
Blank (2503733-BLK1)					Prepared & Analyzed: 05/07/25						
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	mg/L							
LCS (2503733-BS1)					Prepared & Analyzed: 05/07/25						
Hexane Extractable Material (HEM, Oil & Grease)	36.6	1.0	5.0	mg/L	40.0		92	78-114			

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503733 - Solvent Extract											
LCS Dup (2503733-BSD1)					Prepared & Analyzed: 05/07/25						
Hexane Extractable Material (HEM, Oil & Grease)	38.1	1.0	5.0	mg/L	40.0		95	78-114	4	18	
Batch 2503761 - General Preparation											
Blank (2503761-BLK1)					Prepared & Analyzed: 05/07/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Blank (2503761-BLK2)					Prepared & Analyzed: 05/07/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2503761-DUP1)				**Source: 25E0021-01**	Prepared & Analyzed: 05/07/25						
Total Alkalinity	ND	1.0	5.0	mg/L		ND				20	
Bicarbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Duplicate (2503761-DUP2)				**Source: 25E0210-01**	Prepared & Analyzed: 05/07/25						
Total Alkalinity	16.8	1.0	5.0	mg/L		16.8			0	20	
Bicarbonate as CaCO3	16.8	0.50	5.0	"		16.8			0	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503652 - EPA 200 Series											
Blank (2503652-BLK1)					Prepared: 05/05/25 Analyzed: 05/06/25						
Antimony	ND	0.34	6.0	µg/L							
Arsenic	ND	0.45	2.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	ND	0.14	1.0	"							
Cobalt	ND	0.060	2.0	"							
Copper	ND	0.090	2.0	"							
Lead	0.0330	0.020	5.0	"							J
Molybdenum	0.683	0.11	2.0	"							J
Nickel	ND	0.13	2.0	"							
Selenium	2.44	0.75	5.0	"							J
Silver	ND	0.070	0.50	"							
Thallium	0.0940	0.030	1.0	"							J
Vanadium	ND	0.070	3.0	"							
Zinc	ND	0.27	10	"							
LCS (2503652-BS1)					Prepared: 05/05/25 Analyzed: 05/06/25						
Antimony	105	0.34	6.0	µg/L	100		105	85-115			
Arsenic	100	0.45	2.0	"	100		100	85-115			
Beryllium	103	0.31	1.0	"	100		103	85-115			
Cadmium	101	0.17	0.50	"	100		101	85-115			
Chromium	101	0.14	1.0	"	100		101	85-115			
Cobalt	102	0.060	2.0	"	100		102	85-115			
Copper	102	0.090	2.0	"	100		102	85-115			
Lead	103	0.020	5.0	"	100		103	85-115			
Molybdenum	101	0.11	2.0	"	100		101	85-115			
Nickel	103	0.13	2.0	"	100		103	85-115			
Selenium	105	0.75	5.0	"	100		105	85-115			
Silver	99.3	0.070	0.50	"	100		99	85-115			
Thallium	102	0.030	1.0	"	100		102	85-115			
Vanadium	101	0.070	3.0	"	100		101	85-115			
Zinc	105	0.27	10	"	100		105	85-115			

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503652 - EPA 200 Series											
Matrix Spike (2503652-MS1)			**Source: 25E0004-06**	Prepared & Analyzed: 05/05/25							
Antimony	109	0.34	6.0	µg/L	100	ND	109	70-130			
Arsenic	101	0.45	2.0	"	100	0.602	100	70-130			
Beryllium	141	0.31	1.0	"	100	ND	141	70-130			QM-7
Cadmium	106	0.17	0.50	"	100	ND	106	70-130			
Chromium	102	0.14	1.0	"	100	2.85	99	70-130			
Cobalt	99.6	0.060	2.0	"	100	0.161	99	70-130			
Copper	103	0.090	2.0	"	100	1.67	101	70-130			
Lead	106	0.020	5.0	"	100	0.166	106	70-130			
Molybdenum	103	0.11	2.0	"	100	1.20	102	70-130			
Nickel	102	0.13	2.0	"	100	0.977	101	70-130			
Selenium	103	0.75	5.0	"	100	ND	103	70-130			
Silver	103	0.070	0.50	"	100	ND	103	70-130			
Thallium	105	0.030	1.0	"	100	0.0610	105	70-130			
Vanadium	101	0.070	3.0	"	100	1.31	100	70-130			
Zinc	115	0.27	10	"	100	14.4	101	70-130			
Matrix Spike (2503652-MS2)			**Source: 25E0018-02**	Prepared: 05/05/25 Analyzed: 05/06/25							
Antimony	105	0.34	6.0	µg/L	100	ND	105	70-130			
Arsenic	107	0.45	2.0	"	100	8.16	99	70-130			
Beryllium	104	0.31	1.0	"	100	ND	104	70-130			
Cadmium	104	0.17	0.50	"	100	ND	104	70-130			
Chromium	98.0	0.14	1.0	"	100	ND	98	70-130			
Cobalt	99.9	0.060	2.0	"	100	ND	100	70-130			
Copper	101	0.090	2.0	"	100	1.05	100	70-130			
Lead	101	0.020	5.0	"	100	0.0780	101	70-130			
Molybdenum	102	0.11	2.0	"	100	4.56	97	70-130			
Nickel	101	0.13	2.0	"	100	0.174	101	70-130			
Selenium	99.3	0.75	5.0	"	100	ND	99	70-130			
Silver	99.7	0.070	0.50	"	100	ND	100	70-130			
Thallium	101	0.030	1.0	"	100	0.0610	100	70-130			
Vanadium	99.5	0.070	3.0	"	100	ND	100	70-130			
Zinc	102	0.27	10	"	100	0.735	101	70-130			

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503652 - EPA 200 Series											
Batch 2503687 - EPA 200 Series											
Blank (2503687-BLK1)					Prepared & Analyzed: 05/06/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	0.0465	0.043	1.0	"							J
Barium	ND	1.6	20	µg/L							
Potassium	ND	0.13	1.0	mg/L							
Sodium	0.122	0.029	1.0	"							J
LCS (2503687-BS1)					Prepared & Analyzed: 05/06/25						
Calcium	4.59	0.044	1.0	mg/L	5.00		92	85-115			
Barium	484	1.6	20	µg/L	500		97	85-115			
Magnesium	4.74	0.043	1.0	mg/L	5.00		95	85-115			
Potassium	4.53	0.13	1.0	"	5.00		91	85-115			
Sodium	4.89	0.029	1.0	"	5.00		98	85-115			
Matrix Spike (2503687-MS1)			**Source: 25E0004-01**		Prepared & Analyzed: 05/06/25						
Calcium	18.3	0.044	1.0	mg/L	5.00	13.1	102	70-130			
Magnesium	8.04	0.043	1.0	"	5.00	3.07	99	70-130			
Barium	619	1.6	20	µg/L	500	83.8	107	70-130			
Potassium	7.46	0.13	1.0	mg/L	5.00	2.30	103	70-130			
Sodium	11.3	0.029	1.0	"	5.00	6.07	104	70-130			
Matrix Spike (2503687-MS2)			**Source: 25E0070-01**		Prepared & Analyzed: 05/06/25						
Calcium	4.79	0.044	1.0	mg/L	5.00	ND	96	70-130			
Barium	510	1.6	20	µg/L	500	ND	102	70-130			
Magnesium	4.75	0.043	1.0	mg/L	5.00	0.0482	94	70-130			
Potassium	5.92	0.13	1.0	"	5.00	1.28	93	70-130			
Sodium	86.9	0.029	1.0	"	5.00	89.3	NR	70-130			QM-4X

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503690 - EPA 7470A											
Blank (2503690-BLK1)					Prepared & Analyzed: 05/06/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2503690-BS1)					Prepared & Analyzed: 05/06/25						
Mercury	5.06	0.15	0.20	µg/L	5.00		101	85-115			
Matrix Spike (2503690-MS1)			**Source: 25E0070-01**		Prepared & Analyzed: 05/06/25						
Mercury	4.99	0.15	0.20	µg/L	5.00	ND	100	70-130			
Matrix Spike (2503690-MS2)			**Source: 25E0145-01**		Prepared & Analyzed: 05/06/25						
Mercury	4.76	0.15	0.20	µg/L	5.00	ND	95	70-130			

05/12/25 10:49

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25E0021**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 25E0021 (of)

Report To:	Client Job Number	ANALYSIS REQUESTED	STATE UPLOAD ☐ YES ☐ NO
Company: Stillwater Sciences			STATE SYSTEM #:
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory		GEOTRACKER EDF REPORT ☐ YES ☐ NO
Project Manager: Christina Buck, Elliott Allen			GLOBAL ID:
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible		FIELD CONDITIONS:
Project Name: Lundy WQ-1, 1017.00	☐ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com		
Sampled By: Elliott Allen			
Job Description:			
Site Location:			

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Chlorophyll-a	Oil & Grease	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
4/30/25	900	Equipment Blank		Water	9		1,2,5	X	X	X	X	X	X	X						Metals: Sb, As, Ba,
↓	1115	WQ-LL-3 (surf.)		↓	10		↓	↓	↓	↓	↓	↓	↓	↓	X					Be, Cd, Cr, Co, Cu,
↓	1130	WQ-LL-3 (bottom)		↓	9		↓	↓	↓	↓	↓	↓	↓	↓						Pb, Hg, Mo, Ni, Se,
																				Ag, Tl, V, Zn, Ca,
																				Mg, K, Na
																				INVOICE TO:
																				PO#
																				QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Elliott Allen / Stillwater Sciences	5/1/25 1326		
RECEIVED AT LAB BY:		DATE/TIME: 5/1/25 1326	CONDITIONS/COMMENTS: 4.1 / 4.7	
SHIPPED BY:	☐ FED EX ☐ UPS ☐ OTHER		AIR BILL #	

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2505125

Report Created for: CLS Labs

3249 Fitzgerald Road
Rancho Cordova, CA 95742

Project Contact: CLS Sub email
Project P.O.:
Project: 25E0021

Project Location:
Project Received: 05/02/2025

Analytical Report reviewed & approved for release on 05/09/2025 by:



Tracy Babjar
Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2505125

Project: 25E0021

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
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Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2505125

Project: 25E0021

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

H	Sample was analyzed out of hold time

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Analytical Report

Client:	CLS Labs	**WorkOrder:**	2505125
Date Received:	05/02/2025 12:35	**Extraction Method:**	SM10200 Part 4
Date Prepared:	05/02/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25E0021	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Equipment Blank	2505125-001A	Water	04/30/2025 09:00	HPLC5 050525000028.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/06/2025 13:21
Chlorophyll b	ND	H	5.0	1	05/06/2025 13:21

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LL-3 (surf.)	2505125-002A	Water	04/30/2025 11:15	HPLC5 050525000029.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	**10**	H	10	1	05/06/2025 14:23
Chlorophyll b	ND	H	10	1	05/06/2025 14:23

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LL-3 (bottom)	2505125-003A	Water	04/30/2025 11:30	HPLC5 050525000031.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	**7.5**	H	5.0	1	05/06/2025 16:25
Chlorophyll b	ND	H	5.0	1	05/06/2025 16:25

Analyst(s): HAD

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Quality Control Report

Client:	CLS Labs	**WorkOrder:**	2505125
Date Prepared:	05/02/2025	**BatchID:**	316607
Date Analyzed:	05/06/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	25E0021	**Sample ID:**	MB/LCS/LCSD-316607 2505125-002A

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-
Chlorophyll b	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	51	51	50	102	103	70-130	0.942	20
Chlorophyll b	48	48	50	95	96	70-130	0.306	20

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
Chlorophyll a	10	11	9.3	20
Chlorophyll b	ND	ND	N/A	-

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2505125 **ClientCode: CLSR** **QuoteID: 252687**

☐ WaterTrax ☐ CLIP ☐ EDF ☑ EQuIS ☑ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag
☑ Detection Summary ☐ Excel

Report to:
CLS Sub email
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
916-638-7301 FAX: (916) 638-4510

Email: sub@californialab.com
cc/3rd Party:
PO:
Project: 25E0021

Bill to:
Accounts Payable
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Requested TAT: **5 days;**

Date Received: **05/02/2025**
Date Logged: **05/02/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2505125-001	Equipment Blank	Water	4/30/2025 09:00	☐	A	A										
2505125-002	WQ-LL-3 (surf.)	Water	4/30/2025 11:15	☐	A	A										
2505125-003	WQ-LL-3 (bottom)	Water	4/30/2025 11:30	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Yen Cao

Prepared by: Valerie Alfaro

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25E0021
Comments MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2505125
QC Level: LEVEL 2
Date Logged: 5/2/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Equipment Blank	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	4/30/2025 9:00	5 days	5/9/2025	None	☐	☐
002A	WQ-LL-3 (surf.)	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	4/30/2025 11:15	5 days	5/9/2025	Present	☐	☐
003A	WQ-LL-3 (bottom)	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	4/30/2025 11:30	5 days	5/9/2025	Present	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

2505175

SUBCONTRACT ORDER

25E0021

Quote ID 252687

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Client Services
~~Project: Lundy WQ-1, 1017.00~~

RECEIVING LABORATORY:

McCampbell Analytical Inc.
1534 Willow Pass Road
Pittsburg, CA 94565-1701
Phone :(925) 252-9262
Fax: (925) 252-9269

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	05/09/25 15:00	05/02/25 09:00	25E0021-01	04/30/25 09:00	05/01/25 13:26	Water

Client sample ID: Equipment Blank
Laboratory sample ID: 25E0021-01
Please use client sample ID on all reports

~~Samplers~~

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/09/25 15:00	05/02/25 11:15	25E0021-02	04/30/25 11:15	05/01/25 13:26	Water

Client sample ID: WQ-LL-3 (surf.)
Laboratory sample ID: 25E0021-02
Please use client sample ID on all reports

~~Samplers~~

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/09/25 15:00	05/02/25 11:30	25E0021-03	04/30/25 11:30	05/01/25 13:26	Water

Client sample ID: WQ-LL-3 (bottom)
Laboratory sample ID: 25E0021-03
Please use client sample ID on all reports

~~Samplers~~

Containers Supplied:
1L Amber- Unpres. (D)

Relinquished By	Date 05/02/25	Received By	Date 5/2/25 1035
Relinquished By	Date 5/2/25 1235	Received By	Date 5/2/25 1235
Shipped By CLS	Airbill Number		Page 1 of 1

0.7° wet IR#1

2505175

Subcontract Sample Receipt Checklist

CLS Work Order Number: 25E0021

Chain of Custody (COC) Information

Carrier Name CLS				
Chain of custody present?	Yes	☐	☐	No
Chain of custody signed when relinquished and received?	Yes	☐	☐	No
Chain of custody agrees with sample labels?	Yes	☐	☐	Non-Compliant

Sample Receipt Information

Shipping container/cooler in good condition?	Yes	☐	☐	No	Not Present	☐
Samples in proper container/bottle?	Yes	☐	☐	Non-Compliant		
Sample containers intact?	Yes	☐	☐	No		
Sufficient sample volume for indicated test?	Yes	☐	☐	No		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☐	☐	No
Temperature upon receipt: _____ C				
Wet Ice present in Cooler?	Yes	☐	☐	No
Blue Ice present in Cooler?	Yes	☐	☐	No

Analytical Requirement Information

Are non-Standard of Modified methods requested?	Yes	☐	☐	No
Subcontract Lab CERTIFIED for the various methods requested?	Yes	☐	☐	No
Will Subcontract Lab be able to meet the turn-around time (TAT) requirements?	Yes	☐	☐	No

Subcontract Lab Information

Work Order Number assigned by Subcontract Lab _____

Date received at Subcontract Lab _____

If any items are check marked NO or are non-compliant, a phone call back to California Laboratory Services is required immediately. If all items are acceptable, a faxed copy of the signed sub chain of custody (COC) and the completed sample receipt check list is required within 24 hours of sample receipt.

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Sample Receipt Checklist

Client Name:	CLS Labs	Date and Time Received:	5/2/2025 12:35
Project:	25E0021	Date Logged:	5/2/2025
		Received by:	Valerie Alfaro
WorkOrder №:	2505125 Matrix: Water	Logged by:	Valerie Alfaro
Carrier:	Oscar Madrigal (MAI contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☑	No ☐	NA ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
(Ice Type: WET ICE)			
Sample/Temp Blank temperature	Temp: 0.7°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2)?	Yes ☐	No ☐	NA ☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☑

Comments: Sample 2505125-001A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Method SM10200 H Part 4 (Chlorophyll A & B) was received past its 2-day holding time. Sample 2505125-002A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2505125-003A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved.

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

May 12, 2025

CLS Work Order #: 25D1428
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 04/30/25 09:20. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (25D1428-01) Water Sampled: 04/29/25 08:15 Received: 04/30/25 09:20										
Ammonia as N	**0.027**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**3.0**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.29**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	ND	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**3.0**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	ND	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.12**	0.040	0.20	"	"	2503566	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	**6.2**	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	
WQ-LMC-8 (25D1428-02) Water Sampled: 04/29/25 08:30 Received: 04/30/25 09:20										
Ammonia as N	**0.050**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**25**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.53**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**25**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**53**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.17**	0.040	0.20	"	"	2503566	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LMC-8 (25D1428-02) Water Sampled: 04/29/25 08:30 Received: 04/30/25 09:20										
Total Organic Carbon, Dissolved	ND	0.54	1.0	mg/L	1	2503653	"	05/05/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	**5.6**	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	
Duplicate (25D1428-03) Water Sampled: 04/29/25 00:00 Received: 04/30/25 09:20										
Ammonia as N	**0.057**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**25**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.52**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**25**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**52**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.23**	0.040	0.20	"	"	2503566	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	**0.71**	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	**0.023**	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	**5.6**	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	
WQ-LPH-9 (25D1428-04) Water Sampled: 04/29/25 10:00 Received: 04/30/25 09:20										
Ammonia as N	**0.027**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**22**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.48**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**14**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LPH-9 (25D1428-04) Water	**Sampled: 04/29/25 10:00**		**Received: 04/30/25 09:20**							
Total Alkalinity	**22**	1.0	5.0	mg/L	1	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**51**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.17**	0.040	0.20	"	"	2503566	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	
WQ-MCBR-5 (25D1428-05) Water	**Sampled: 04/29/25 09:15**		**Received: 04/30/25 09:20**							
Ammonia as N	**0.047**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**25**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.53**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**25**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**54**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.12**	0.040	0.20	"	"	2503569	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	**4.6**	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-MCBR-4 (25D1428-06) Water Sampled: 04/29/25 10:15 Received: 04/30/25 09:20										
Ammonia as N	**0.037**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**19**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.48**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**14**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**19**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**52**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.18**	0.040	0.20	"	"	2503569	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	**1.0**	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	
WQ-UMC-1 (25D1428-07) Water Sampled: 04/29/25 10:45 Received: 04/30/25 09:20										
Ammonia as N	**0.046**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.43**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	**0.069**	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**18**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**17**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**53**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.14**	0.040	0.20	"	"	2503569	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	

05/12/25 12:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25D1428**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-UMC-1 (25D1428-07) Water	**Sampled: 04/29/25 10:45**		**Received: 04/30/25 09:20**							
Total Organic Carbon, Dissolved	ND	0.54	1.0	mg/L	1	2503653	"	05/05/25	SM 5310B	
Total Phosphorus as P	**0.025**	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	**7.1**	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	
WQ-UMC-2 (25D1428-08) Water	**Sampled: 04/29/25 11:00**		**Received: 04/30/25 09:20**							
Ammonia as N	**0.054**	0.025	0.10	mg/L	1	2503604	05/01/25	05/05/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.44**	0.026	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Nitrate as N	**0.069**	0.053	0.40	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2503572	04/30/25	04/30/25	SM4500-P E	
Sulfate as SO4	**17**	0.038	0.50	"	"	2503541	04/30/25	04/30/25	EPA 300.0	
Total Alkalinity	**18**	1.0	5.0	"	"	2503589	05/01/25	05/01/25	SM2320B	
Total Dissolved Solids	**55**	5.0	10	"	"	2503676	05/05/25	05/07/25	SM2540C	
Total Kjeldahl Nitrogen	**0.11**	0.040	0.20	"	"	2503569	04/30/25	05/05/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2503653	05/05/25	05/05/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2503654	05/05/25	05/05/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2503581	05/01/25	05/02/25	SM2540D	

05/12/25 12:27

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2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (25D1428-01) Water Sampled: 04/29/25 08:15 Received: 04/30/25 09:20										
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**0.53**	0.45	2.0	"	"	"	"	"	"	
Barium	ND	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	ND	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	ND	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**0.27**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	ND	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.054**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	ND	0.27	10	"	"	"	"	05/02/25	"	
WQ-LMC-8 (25D1428-02) Water Sampled: 04/29/25 08:30 Received: 04/30/25 09:20										
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**1.4**	0.45	2.0	"	"	"	"	"	"	
Barium	**25**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LMC-8 (25D1428-02) Water Sampled: 04/29/25 08:30 Received: 04/30/25 09:20										
Copper	**0.40**	0.090	2.0	µg/L	1	2503583	"	05/01/25	EPA 200.8	
Lead	**0.19**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.91**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**2.1**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.63**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.9**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.047**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	**0.40**	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.75**	0.27	10	"	"	"	"	05/02/25	"	
Duplicate (25D1428-03) Water Sampled: 04/29/25 00:00 Received: 04/30/25 09:20										
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**2.7**	0.45	2.0	"	"	"	"	"	"	
Barium	**26**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	
Copper	**0.41**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.18**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.92**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**2.3**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.95**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	**1.4**	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Duplicate (25D1428-03) Water Sampled: 04/29/25 00:00 Received: 04/30/25 09:20										
Silver	ND	0.070	0.50	µg/L	1	2503583	"	05/01/25	EPA 200.8	
Sodium	**3.0**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.037**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	**0.23**	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.77**	0.27	10	"	"	"	"	05/02/25	"	
WQ-LPH-9 (25D1428-04) Water Sampled: 04/29/25 10:00 Received: 04/30/25 09:20										
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**3.6**	0.45	2.0	"	"	"	"	"	"	
Barium	**10**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**11**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	
Copper	**0.18**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.13**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.51**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**1.9**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.66**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.0**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.036**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.47**	0.27	10	"	"	"	"	05/02/25	"	

05/12/25 12:27

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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-MCBR-5 (25D1428-05) Water	**Sampled: 04/29/25 09:15**		**Received: 04/30/25 09:20**							
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**2.3**	0.45	2.0	"	"	"	"	"	"	
Barium	**25**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	
Copper	**0.31**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.15**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.90**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**1.1**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.9**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.031**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	**0.46**	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.84**	0.27	10	"	"	"	"	05/02/25	"	
WQ-MCBR-4 (25D1428-06) Water	**Sampled: 04/29/25 10:15**		**Received: 04/30/25 09:20**							
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**3.2**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.1**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-MCBR-4 (25D1428-06) Water Sampled: 04/29/25 10:15 Received: 04/30/25 09:20										
Copper	**0.25**	0.090	2.0	µg/L	1	2503583	"	05/01/25	EPA 200.8	
Lead	**0.14**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.48**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**1.9**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.75**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.9**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.031**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.42**	0.27	10	"	"	"	"	05/02/25	"	
WQ-UMC-1 (25D1428-07) Water Sampled: 04/29/25 10:45 Received: 04/30/25 09:20										
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**0.81**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.4**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	
Copper	**0.13**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.050**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.49**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**1.0**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.73**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	**2.3**	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-UMC-1 (25D1428-07) Water Sampled: 04/29/25 10:45 Received: 04/30/25 09:20										
Silver	ND	0.070	0.50	µg/L	1	2503583	"	05/01/25	EPA 200.8	
Sodium	**1.3**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	**0.032**	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.31**	0.27	10	"	"	"	"	05/02/25	"	
WQ-UMC-2 (25D1428-08) Water Sampled: 04/29/25 11:00 Received: 04/30/25 09:20										
Antimony	ND	0.34	6.0	µg/L	1	2503583	05/01/25	05/01/25	EPA 200.8	
Arsenic	**5.1**	0.45	2.0	"	"	"	"	"	"	
Barium	**10**	1.6	20	"	"	2503582	05/01/25	05/01/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2503583	05/01/25	05/02/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	05/01/25	"	
Copper	**0.59**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.26**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.47**	0.043	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2503585	05/01/25	05/02/25	EPA 245.1	
Molybdenum	**1.4**	0.11	2.0	"	"	2503583	05/01/25	05/01/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.83**	0.13	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Selenium	**2.9**	0.75	5.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.4**	0.029	1.0	mg/L	"	2503582	05/01/25	05/01/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2503583	05/01/25	05/01/25	EPA 200.8	
Vanadium	**0.085**	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.64**	0.27	10	"	"	"	"	05/02/25	"	

05/12/25 12:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25D1428**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503541 - General Prep											
Blank (2503541-BLK1)					Prepared & Analyzed: 04/30/25						
Sulfate as SO4	ND	0.038	0.50	mg/L							
Chloride	ND	0.026	0.50	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2503541-BS1)					Prepared & Analyzed: 04/30/25						
Chloride	5.04	0.026	0.50	mg/L	5.00		101	80-120			
Sulfate as SO4	5.13	0.038	0.50	"	5.00		103	80-120			
Nitrate as N	2.00	0.053	0.40	"	2.00		100	80-120			
LCS Dup (2503541-BSD1)					Prepared & Analyzed: 04/30/25						
Sulfate as SO4	5.10	0.038	0.50	mg/L	5.00		102	80-120	0.6	20	
Chloride	4.96	0.026	0.50	"	5.00		99	80-120	1	20	
Nitrate as N	1.97	0.053	0.40	"	2.00		99	80-120	1	20	
Matrix Spike (2503541-MS1)			**Source: 25D1415-04**		Prepared & Analyzed: 04/30/25						
Sulfate as SO4	22.5	0.038	0.50	mg/L	5.00	17.7	95	80-120			
Chloride	38.1	0.026	0.50	"	5.00	34.6	71	80-120			QM-7
Nitrate as N	4.19	0.053	0.40	"	2.00	2.19	100	80-120			
Matrix Spike Dup (2503541-MSD1)			**Source: 25D1415-04**		Prepared & Analyzed: 04/30/25						
Sulfate as SO4	22.5	0.038	0.50	mg/L	5.00	17.7	96	80-120	0.3	20	
Chloride	38.1	0.026	0.50	"	5.00	34.6	71	80-120	0.04	20	QM-7
Nitrate as N	4.22	0.053	0.40	"	2.00	2.19	101	80-120	0.6	20	
Batch 2503566 - General Preparation											
Blank (2503566-BLK1)					Prepared: 04/30/25 Analyzed: 05/01/25						
Total Kjeldahl Nitrogen	0.0420	0.040	0.20	mg/L							

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503566 - General Preparation											
LCS (2503566-BS1)					Prepared: 04/30/25 Analyzed: 05/01/25						
Total Kjeldahl Nitrogen	0.480	0.040	0.20	mg/L	0.500		96	80-120			
LCS Dup (2503566-BSD1)					Prepared: 04/30/25 Analyzed: 05/01/25						
Total Kjeldahl Nitrogen	0.488	0.040	0.20	mg/L	0.500		98	80-120	2	20	
Matrix Spike (2503566-MS1)			**Source: 25D1315-02**		Prepared: 04/30/25 Analyzed: 05/01/25						
Total Kjeldahl Nitrogen	1.47	0.20	1.0	mg/L	0.500	0.845	125	75-125			
Matrix Spike Dup (2503566-MSD1)			**Source: 25D1315-02**		Prepared: 04/30/25 Analyzed: 05/01/25						
Total Kjeldahl Nitrogen	1.54	0.20	1.0	mg/L	0.500	0.845	138	75-125	4	25	QM-7
Batch 2503569 - General Preparation											
Blank (2503569-BLK1)					Prepared: 04/30/25 Analyzed: 05/05/25						
Total Kjeldahl Nitrogen	ND	0.040	0.20	mg/L							
LCS (2503569-BS1)					Prepared: 04/30/25 Analyzed: 05/05/25						
Total Kjeldahl Nitrogen	0.482	0.040	0.20	mg/L	0.500		96	80-120			
LCS Dup (2503569-BSD1)					Prepared: 04/30/25 Analyzed: 05/05/25						
Total Kjeldahl Nitrogen	0.478	0.040	0.20	mg/L	0.500		96	80-120	0.8	20	
Matrix Spike (2503569-MS1)			**Source: 25D1428-08**		Prepared: 04/30/25 Analyzed: 05/05/25						
Total Kjeldahl Nitrogen	0.472	0.040	0.20	mg/L	0.500	0.110	72	75-125			QM-7
Matrix Spike Dup (2503569-MSD1)			**Source: 25D1428-08**		Prepared: 04/30/25 Analyzed: 05/05/25						
Total Kjeldahl Nitrogen	0.479	0.040	0.20	mg/L	0.500	0.110	74	75-125	1	25	QM-7

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503572 - General Preparation											
Blank (2503572-BLK1)					Prepared & Analyzed: 04/30/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							
LCS (2503572-BS1)					Prepared & Analyzed: 04/30/25						
Orthophosphate as PO4	0.903	0.0051	0.15	mg/L	0.918		98	80-120			
LCS Dup (2503572-BSD1)					Prepared & Analyzed: 04/30/25						
Orthophosphate as PO4	0.863	0.0051	0.15	mg/L	0.918		94	80-120	4	20	
Matrix Spike (2503572-MS1)			**Source: 25D1432-01**		Prepared & Analyzed: 04/30/25						
Orthophosphate as PO4	58.8	0.26	7.5	mg/L	0.918	15.8	NR	75-125			QM-7
Matrix Spike Dup (2503572-MSD1)			**Source: 25D1432-01**		Prepared & Analyzed: 04/30/25						
Orthophosphate as PO4	57.1	0.26	7.5	mg/L	0.918	15.8	NR	75-125	3	25	QM-7
Batch 2503581 - General Preparation											
Blank (2503581-BLK1)					Prepared: 05/01/25 Analyzed: 05/02/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							
LCS (2503581-BS1)					Prepared: 05/01/25 Analyzed: 05/02/25						
Total Suspended Solids	93.5	2.5	2.5	mg/L	100		94	80-120			
LCS Dup (2503581-BSD1)					Prepared: 05/01/25 Analyzed: 05/02/25						
Total Suspended Solids	93.1	2.5	2.5	mg/L	100		93	80-120	0.4	200	
Duplicate (2503581-DUP1)			**Source: 25D1367-01**		Prepared: 05/01/25 Analyzed: 05/02/25						
Total Suspended Solids	282	42	42	mg/L		280			0.7	20	

05/12/25 12:27

Stillwater Sciences
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Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503589 - General Preparation											
Blank (2503589-BLK1)					Prepared & Analyzed: 05/01/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2503589-DUP1)				**Source: 25D1347-03**	Prepared & Analyzed: 05/01/25						
Total Alkalinity	114	1.0	5.0	mg/L		113			1	20	
Bicarbonate as CaCO3	114	0.50	5.0	"		113			1	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Batch 2503604 - General Preparation											
Blank (2503604-BLK1)					Prepared: 05/01/25 Analyzed: 05/05/25						
Ammonia as N	0.0390	0.025	0.10	mg/L							
LCS (2503604-BS1)					Prepared: 05/01/25 Analyzed: 05/05/25						
Ammonia as N	0.417	0.025	0.10	mg/L	0.500		83	80-120			
LCS Dup (2503604-BSD1)					Prepared: 05/01/25 Analyzed: 05/05/25						
Ammonia as N	0.419	0.025	0.10	mg/L	0.500		84	80-120	0.5	25	
Matrix Spike (2503604-MS1)				**Source: 25D1395-03**	Prepared: 05/01/25 Analyzed: 05/05/25						
Ammonia as N	0.342	0.025	0.10	mg/L	0.500	0.0950	49	75-125			QM-7
Matrix Spike Dup (2503604-MSD1)				**Source: 25D1395-03**	Prepared: 05/01/25 Analyzed: 05/05/25						
Ammonia as N	0.336	0.025	0.10	mg/L	0.500	0.0950	48	75-125	2	25	QM-7

05/12/25 12:27

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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503653 - General Preparation											
Blank (2503653-BLK1)					Prepared & Analyzed: 05/05/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							
LCS (2503653-BS1)					Prepared & Analyzed: 05/05/25						
Total Organic Carbon	10.2	0.54	1.0	mg/L	10.0		102	75-125			
Total Organic Carbon, Dissolved	10.2	0.54	1.0	"	10.0		102	75-125			
LCS Dup (2503653-BSD1)					Prepared & Analyzed: 05/05/25						
Total Organic Carbon	10.4	0.54	1.0	mg/L	10.0		104	75-125	1	25	
Total Organic Carbon, Dissolved	10.4	0.54	1.0	"	10.0		104	75-125	1	25	
Matrix Spike (2503653-MS1)			**Source: 25D1466-01**		Prepared & Analyzed: 05/05/25						
Total Organic Carbon	14.2	0.54	1.0	mg/L	10.0	2.15	121	75-125			
Total Organic Carbon, Dissolved	14.2	0.54	1.0	"	10.0	2.13	121	75-125			
Matrix Spike Dup (2503653-MSD1)			**Source: 25D1466-01**		Prepared & Analyzed: 05/05/25						
Total Organic Carbon	14.5	0.54	1.0	mg/L	10.0	2.15	124	75-125	2	25	
Total Organic Carbon, Dissolved	14.5	0.54	1.0	"	10.0	2.13	124	75-125	2	30	
Batch 2503654 - General Preparation											
Blank (2503654-BLK1)					Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2503654-BS1)					Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.333	0.023	0.050	mg/L	0.300		111	80-120			

05/12/25 12:27

Stillwater Sciences
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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503654 - General Preparation											
LCS Dup (2503654-BSD1)					Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.305	0.023	0.050	mg/L	0.300		102	80-120	9	25	
Matrix Spike (2503654-MS1)			**Source: 25D1468-01**		Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.615	0.023	0.050	mg/L	0.300	0.279	112	75-125			
Matrix Spike Dup (2503654-MSD1)			**Source: 25D1468-01**		Prepared & Analyzed: 05/05/25						
Total Phosphorus as P	0.630	0.023	0.050	mg/L	0.300	0.279	117	75-125	2	30	
Batch 2503676 - General Preparation											
Blank (2503676-BLK1)					Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	ND	5.0	10	mg/L							
LCS (2503676-BS1)					Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120			
LCS Dup (2503676-BSD1)					Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	48.0	5.0	10	mg/L	50.0		96	80-120	2	200	
Duplicate (2503676-DUP1)			**Source: 25D1428-01**		Prepared: 05/05/25 Analyzed: 05/07/25						
Total Dissolved Solids	ND	5.0	10	mg/L		ND				20	

05/12/25 12:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25D1428**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503582 - EPA 200 Series											
Blank (2503582-BLK1)					Prepared & Analyzed: 05/01/25						
Calcium	ND	0.044	1.0	mg/L							
Barium	1.76	1.6	20	µg/L							
Magnesium	ND	0.043	1.0	mg/L							
Potassium	ND	0.13	1.0	"							
Sodium	0.0672	0.029	1.0	"							
LCS (2503582-BS1)					Prepared & Analyzed: 05/01/25						
Calcium	5.09	0.044	1.0	mg/L	5.00		102	85-115			
Barium	506	1.6	20	µg/L	500		101	85-115			
Magnesium	5.07	0.043	1.0	mg/L	5.00		101	85-115			
Potassium	5.35	0.13	1.0	"	5.00		107	85-115			
Sodium	5.22	0.029	1.0	"	5.00		104	85-115			
Matrix Spike (2503582-MS1)			**Source: 25D1390-05**		Prepared & Analyzed: 05/01/25						
Calcium	75.1	0.044	1.0	mg/L	5.00	70.3	96	70-130			
Magnesium	51.2	0.043	1.0	"	5.00	46.1	102	70-130			
Barium	748	1.6	20	µg/L	500	258	98	70-130			
Potassium	8.57	0.13	1.0	mg/L	5.00	3.37	104	70-130			
Sodium	43.2	0.029	1.0	"	5.00	38.2	99	70-130			
Matrix Spike (2503582-MS2)			**Source: 25D1471-01**		Prepared: 05/01/25 Analyzed: 05/02/25						
Calcium	42.7	0.044	1.0	mg/L	5.00	36.4	125	70-130			
Magnesium	23.8	0.043	1.0	"	5.00	18.3	110	70-130			
Barium	710	1.6	20	µg/L	500	216	99	70-130			
Potassium	9.02	0.13	1.0	mg/L	5.00	3.03	120	70-130			
Sodium	28.3	0.029	1.0	"	5.00	23.7	94	70-130			

05/12/25 12:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25D1428**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503583 - EPA 200 Series											
Blank (2503583-BLK1)					Prepared & Analyzed: 05/01/25						
Antimony	0.534	0.34	6.0	µg/L							
Arsenic	ND	0.45	2.0	"							
Barium	ND	0.14	5.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	0.218	0.14	1.0	"							
Cobalt	ND	0.060	2.0	"							
Copper	0.164	0.090	2.0	"							
Lead	0.0660	0.020	5.0	"							
Manganese	0.336	0.050	2.0	"							
Molybdenum	0.823	0.11	2.0	"							
Nickel	ND	0.13	2.0	"							
Selenium	2.02	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	0.0680	0.030	1.0	"							
Vanadium	0.157	0.070	3.0	"							
Zinc	0.285	0.27	10	"							
LCS (2503583-BS1)					Prepared & Analyzed: 05/01/25						
Antimony	103	0.34	6.0	µg/L	100		103	85-115			
Arsenic	96.5	0.45	2.0	"	100		97	85-115			
Barium	97.5	0.14	5.0	"	100		98	85-115			
Beryllium	102	0.31	1.0	"	100		102	85-115			
Cadmium	99.4	0.17	0.50	"	100		99	85-115			
Chromium	101	0.14	1.0	"	100		101	85-115			
Cobalt	101	0.060	2.0	"	100		101	85-115			
Copper	101	0.090	2.0	"	100		101	85-115			
Lead	100	0.020	5.0	"	100		100	85-115			
Manganese	103	0.050	2.0	"	100		103	85-115			
Molybdenum	97.1	0.11	2.0	"	100		97	85-115			
Nickel	99.8	0.13	2.0	"	100		100	85-115			
Selenium	98.5	0.75	5.0	"	100		99	85-115			

05/12/25 12:27

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25D1428
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503583 - EPA 200 Series											
LCS (2503583-BS1)					Prepared & Analyzed: 05/01/25						
Silver	99.0	0.070	0.50	µg/L	100		99	85-115			
Thallium	96.6	0.030	1.0	"	100		97	85-115			
Vanadium	100	0.070	3.0	"	100		100	85-115			
Zinc	99.9	0.27	10	"	100		100	85-115			
Matrix Spike (2503583-MS1)				**Source: 25D1400-01**	Prepared & Analyzed: 05/01/25						
Antimony	102	0.34	6.0	µg/L	100	ND	102	70-130			
Arsenic	100	0.45	2.0	"	100	4.38	96	70-130			
Barium	141	0.14	5.0	"	100	42.1	99	70-130			
Beryllium	100	0.31	1.0	"	100	ND	100	70-130			
Cadmium	101	0.17	0.50	"	100	ND	101	70-130			
Chromium	103	0.14	1.0	"	100	5.11	98	70-130			
Cobalt	98.8	0.060	2.0	"	100	ND	99	70-130			
Copper	104	0.090	2.0	"	100	3.76	100	70-130			
Lead	98.9	0.020	5.0	"	100	0.135	99	70-130			
Manganese	106	0.050	2.0	"	100	4.60	102	70-130			
Molybdenum	99.3	0.11	2.0	"	100	1.80	98	70-130			
Nickel	98.5	0.13	2.0	"	100	0.324	98	70-130			
Selenium	95.7	0.75	5.0	"	100	0.775	95	70-130			
Silver	97.6	0.070	0.50	"	100	ND	98	70-130			
Thallium	97.3	0.030	1.0	"	100	0.0340	97	70-130			
Vanadium	119	0.070	3.0	"	100	19.7	99	70-130			
Zinc	111	0.27	10	"	100	12.5	99	70-130			
Matrix Spike (2503583-MS2)				**Source: 25D1470-01**	Prepared & Analyzed: 05/01/25						
Antimony	101	0.34	6.0	µg/L	100	ND	101	70-130			
Arsenic	96.4	0.45	2.0	"	100	1.19	95	70-130			
Barium	310	0.14	5.0	"	100	234	76	70-130			
Beryllium	96.0	0.31	1.0	"	100	ND	96	70-130			
Cadmium	97.2	0.17	0.50	"	100	ND	97	70-130			
Chromium	103	0.14	1.0	"	100	6.04	97	70-130			
Cobalt	95.6	0.060	2.0	"	100	ND	96	70-130			

05/12/25 12:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25D1428**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2503583 - EPA 200 Series											
Matrix Spike (2503583-MS2)			**Source: 25D1470-01**		Prepared & Analyzed: 05/01/25						
Copper	98.6	0.090	2.0	µg/L	100	0.379	98	70-130			
Lead	95.2	0.020	5.0	"	100	ND	95	70-130			
Manganese	102	0.050	2.0	"	100	2.99	99	70-130			
Molybdenum	97.1	0.11	2.0	"	100	0.385	97	70-130			
Nickel	99.6	0.13	2.0	"	100	3.60	96	70-130			
Selenium	98.9	0.75	5.0	"	100	1.27	98	70-130			
Silver	97.0	0.070	0.50	"	100	ND	97	70-130			
Thallium	94.1	0.030	1.0	"	100	0.0310	94	70-130			
Vanadium	104	0.070	3.0	"	100	6.64	98	70-130			
Zinc	109	0.27	10	"	100	14.6	94	70-130			
Batch 2503585 - EPA 7470A											
Blank (2503585-BLK1)					Prepared: 05/01/25 Analyzed: 05/02/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2503585-BS1)					Prepared: 05/01/25 Analyzed: 05/02/25						
Mercury	4.80	0.15	0.20	µg/L	5.00		96	85-115			
Matrix Spike (2503585-MS1)			**Source: 25D1428-08**		Prepared: 05/01/25 Analyzed: 05/02/25						
Mercury	4.68	0.15	0.20	µg/L	5.00	ND	94	70-130			
Matrix Spike (2503585-MS2)			**Source: 25D1445-05**		Prepared: 05/01/25 Analyzed: 05/02/25						
Mercury	4.08	0.15	0.20	µg/L	5.00	ND	82	70-130			
Matrix Spike Dup (2503585-MSD1)			**Source: 25D1428-08**		Prepared: 05/01/25 Analyzed: 05/02/25						
Mercury	4.67	0.15	0.20	µg/L	5.00	ND	93	70-130	0.2	25	

05/12/25 12:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25D1428**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 25D1428 1 of 1

Report To:	Client Job Number	ANALYSIS REQUESTED	STATE UPLOAD ☐ YES ☐ NO
Company: Stillwater Sciences			STATE SYSTEM #:
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory		GEOTRACKER EDF REPORT ☐ YES ☐ NO
Project Manager: Christina Buck, Elliott Allen			GLOBAL ID:
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed Responsive Flexible		FIELD CONDITIONS:
Project Name: Lundy WQ-1, 1017.00			
Sampled By: Elliott Allen	☐ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com		
Job Description:			
Site Location:			

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Chlorophyll-a	Oil & Grease	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
4/29/25	915	Field Blank		Water	9		1,2,3	X	X	X	X	X	X	X						Metals: Sb, As, Ba,
	830	WQ-LMC-8																		Be, Cd, Cr, Co, Cu,
		Duplicate																		Pb, Hg, Mo, Ni, Se,
	1000	WQ-LPH-9																		Ag, Tl, V, Zn, Ca,
	915	WQ-MLBR-5																		Mg, K, Na
	1015	WQ-MEBR-4																		
	1045	WQ-UMC-1																		
	1100	WQ-UMC-2																		INVOICE TO:
																				PO#
																				QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Elliott Allen/Stillwater Sciences	4/29/25 1345		

RECEIVED AT LAB BY: DATE/TIME: 4/30/25 0920 CONDITIONS/COMMENTS: 6.3/6.9

SHIPPED BY: ☐ FED EX ☐ UPS ☐ OTHER AIR BILL #

FEDEX 8186 3595 9045

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2505126

Report Created for: CLS Labs

3249 Fitzgerald Road
Rancho Cordova, CA 95742

Project Contact: CLS Sub email
Project P.O.:
Project: 25D1428

Project Location:
Project Received: 05/02/2025

Analytical Report reviewed & approved for release on 05/09/2025 by:



Tracy Babjar
Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2505126

Project: 25D1428

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2505126

Project: 25D1428

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

H	Sample was analyzed out of hold time

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2505126
Date Received:	05/02/2025 12:35	**Extraction Method:**	SM10200 Part 4
Date Prepared:	05/02/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25D1428	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Field Blank	2505126-001A	Water	04/29/2025 08:15	HPLC5 050525000033.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/06/2025 18:28

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-8	2505126-002A	Water	04/29/2025 08:30	HPLC5 050525000034.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/06/2025 19:30

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Duplicate	2505126-003A	Water	04/29/2025	HPLC5 050525000035.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/06/2025 20:31

Analyst(s): HAD

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2505126
Date Received:	05/02/2025 12:35	**Extraction Method:**	SM10200 Part 4
Date Prepared:	05/02/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25D1428	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LPH-9	2505126-004A	Water	04/29/2025 10:00	HPLC5 050525000036.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	**9.3**	H	5.0	1	05/06/2025 21:32

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5	2505126-005A	Water	04/29/2025 09:15	HPLC5 050525000037.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/06/2025 22:33

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-4	2505126-006A	Water	04/29/2025 10:15	HPLC5 050525000038.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	**9.6**	H	5.0	1	05/06/2025 23:35

Analyst(s): HAD

(Cont.)

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2505126
Date Received:	05/02/2025 12:35	**Extraction Method:**	SM10200 Part 4
Date Prepared:	05/02/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25D1428	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-1	2505126-007A	Water	04/29/2025 10:45	HPLC5 050525000039.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/07/2025 00:36

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-2	2505126-008A	Water	04/29/2025 11:00	HPLC5 050525000040.D	316607

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	05/07/2025 01:37

Analyst(s): HAD

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	CLS Labs	**WorkOrder:**	2505126
Date Prepared:	05/02/2025	**BatchID:**	316607
Date Analyzed:	05/06/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	25D1428	**Sample ID:**	MB/LCS/LCSD-316607

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-
Chlorophyll b	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	51	51	50	102	103	70-130	0.942	20
Chlorophyll b	48	48	50	95	96	70-130	0.306	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2505126 **ClientCode: CLSR** **QuoteID: 252687**

☐ WaterTrax ☐ CLIP ☐ EDF ☒ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☒ Detection Summary ☐ Excel

Report to:
CLS Sub email
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
916-638-7301 FAX: (916) 638-4510

Email: sub@californialab.com
cc/3rd Party:
PO:
Project: 25D1428

Bill to:
Accounts Payable
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Requested TAT: **5 days;**

Date Received: **05/02/2025**
Date Logged: **05/02/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2505126-001	Field Blank	Water	4/29/2025 08:15	☐	A	A										
2505126-002	WQ-LMC-8	Water	4/29/2025 08:30	☐	A	A										
2505126-003	Duplicate	Water	4/29/2025 00:00	☐	A	A										
2505126-004	WQ-LPH-9	Water	4/29/2025 10:00	☐	A	A										
2505126-005	WQ-MCBR-5	Water	4/29/2025 09:15	☐	A	A										
2505126-006	WQ-MCBR-4	Water	4/29/2025 10:15	☐	A	A										
2505126-007	WQ-UMC-1	Water	4/29/2025 10:45	☐	A	A										
2505126-008	WQ-UMC-2	Water	4/29/2025 11:00	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Yen Cao

Prepared by: Valerie Alfaro

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25D1428

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2505126
QC Level: LEVEL 2
Date Logged: 5/2/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Field Blank	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 8:15	5 days	5/9/2025	None	☐	☐
002A	WQ-LMC-8	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 8:30	5 days	5/9/2025	Present	☐	☐
003A	Duplicate	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025	5 days	5/9/2025	Trace	☐	☐
004A	WQ-LPH-9	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 10:00	5 days	5/9/2025	Trace	☐	☐
005A	WQ-MCBR-5	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 9:15	5 days	5/9/2025	Trace	☐	☐
006A	WQ-MCBR-4	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 10:15	5 days	5/9/2025	Trace	☐	☐
007A	WQ-UMC-1	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 10:45	5 days	5/9/2025	Trace	☐	☐
008A	WQ-UMC-2	Water	SM10200 H Part 4 (Chlorophyll A & B) <Chlorophyll a>	1	1LA, Unpres	☑	☐	☐	4/29/2025 11:00	5 days	5/9/2025	Trace	☐	☐

NOTES: *** STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

2505126

SUBCONTRACT ORDER

25D1428

Quote ID 252687

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Client Services
Project: Lundy WQ-1, 1017.00

RECEIVING LABORATORY:

McCampbell Analytical Inc.
1534 Willow Pass Road
Pittsburg, CA 94565-1701
Phone :(925) 252-9262
Fax: (925) 252-9269

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 08:15	25D1428-01	04/29/25 08:15	04/30/25 09:20	Water

Client sample ID: Field Blank **Sampler:**
Laboratory sample ID: 25D1428-01
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 08:30	25D1428-02	04/29/25 08:30	04/30/25 09:20	Water

Client sample ID: WQ-LMC-8 **Sampler:**
Laboratory sample ID: 25D1428-02
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 00:00	25D1428-03	04/29/25 00:00	04/30/25 09:20	Water

Client sample ID: Duplicate **Sampler:**
Laboratory sample ID: 25D1428-03
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

	05/01/25		
Relinquished By	Date	Received By	Date
	5/2/25 1235		5/2/25 1235
Relinquished By	Date	Received By	Date
CLS			
Shipped By	Airbill Number		

0.7 wet

2505126

SUBCONTRACT ORDER

25D1428

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 10:00	25D1428-04	04/29/25 10:00	04/30/25 09:20	Water

Client sample ID: WQ-LPH-9 **Sampler:**
Laboratory sample ID: 25D1428-04
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 09:15	25D1428-05	04/29/25 09:15	04/30/25 09:20	Water

Client sample ID: WQ-MCBR-5 **Sampler:**
Laboratory sample ID: 25D1428-05
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 10:15	25D1428-06	04/29/25 10:15	04/30/25 09:20	Water

Client sample ID: WQ-MCBR-4 **Sampler:**
Laboratory sample ID: 25D1428-06
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 10:45	25D1428-07	04/29/25 10:45	04/30/25 09:20	Water

Client sample ID: WQ-UMC-1 **Sampler:**
Laboratory sample ID: 25D1428-07
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

[signature]	05/01/25	[signature]	5/2/25 1030
Relinquished By	Date	Received By	Date
[signature]	5/2/25 1235	[signature]	5/2/25 1235
Relinquished By	Date	Received By	Date
CLS			
Shipped By	Airbill Number		

2505126

SUBCONTRACT ORDER

25D1428

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	05/08/25 15:00	05/01/25 11:00	25D1428-08	04/29/25 11:00	04/30/25 09:20	Water

Client sample ID: WQ-UMC-2 **Sampler:**

Laboratory sample ID: 25D1428-08

Please use client sample ID on all reports

Containers Supplied:

1L Amber- Unpres. (D)

Relinquished By	Date	Received By	Date
	05/01/25	Maggi	5/2/25 1030
Maggi	5/2/25 1235		5/2/25 1235
Relinquished By	Date	Received By	Date
OLS			
Shipped By	Airbill Number		

2505126

Subcontract Sample Receipt Checklist

CLS Work Order Number: 25D1628

Chain of Custody (COC) Information

Carrier Name CLS				
Chain of custody present?	Yes	☐	☐	No
Chain of custody signed when relinquished and received?	Yes	☐	☐	No
Chain of custody agrees with sample labels?	Yes	☐	☐	No
	Yes	☐	☐	Non-Compliant

Sample Receipt Information

Shipping container/cooler in good condition?	Yes	☐	☐	No	Not Present ☐
Samples in proper container/bottle?	Yes	☐	☐	Non-Compliant	
Sample containers intact?	Yes	☐	☐	No	
Sufficient sample volume for indicated test?	Yes	☐	☐	No	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☐	☐	No
Temperature upon receipt: _____ C				
Wet Ice present in Cooler?	Yes	☐	☐	No
Blue Ice present in Cooler?	Yes	☐	☐	No

Analytical Requirement Information

Are non-Standard of Modified methods requested?	Yes	☐	☐	No
Subcontract Lab CERTIFIED for the various methods requested?	Yes	☐	☐	No
Will Subcontract Lab be able to meet the turn-around time (TAT) requirements?	Yes	☐	☐	No

Subcontract Lab Information

Work Order Number assigned by Subcontract Lab _____

Date received at Subcontract Lab _____

If any items are check marked NO or are non-compliant, a phone call back to California Laboratory Services is required immediately. If all items are acceptable, a faxed copy of the signed sub chain of custody (COC) and the completed sample receipt check list is required within 24 hours of sample receipt.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	CLS Labs	Date and Time Received:	5/2/2025 12:35
Project:	25D1428	Date Logged:	5/2/2025
		Received by:	Valerie Alfaro
WorkOrder №:	2505126 Matrix: Water	Logged by:	Valerie Alfaro
Carrier:	Oscar Madrigal (MAI contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☑	No ☐	NA ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 0.7°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2)?	Yes ☐	No ☐	NA ☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☑

Comments: Sample 2505126-001A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Method SM10200 H Part 4 (Chlorophyll A & B) was received past its 2-day holding time. Sample 2505126-002A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2505126-003A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2505126-004A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2505126-005A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2505126-006A with method SM10200 H Part 4

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

(Chlorophyll A & B) was received unpreserved. Sample 2505126-007A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2505126-008A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved.

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

June 18, 2025

CLS Work Order #: 25F0546
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 06/10/25 13:49. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (25F0546-01) Water Sampled: 06/09/25 14:00 Received: 06/10/25 13:49										
Ammonia as N	**0.089**	0.025	0.10	mg/L	1	2504952	06/12/25	06/13/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**3.8**	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.35**	0.026	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2504868	06/10/25	06/10/25	SM4500-P E	
Sulfate as SO4	**0.25**	0.038	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Total Alkalinity	**3.8**	1.0	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Total Dissolved Solids	ND	5.0	10	"	"	2504949	06/12/25	06/16/25	SM2540C	
Total Kjeldahl Nitrogen	**0.089**	0.040	0.20	"	"	2504976	06/13/25	06/13/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2504908	06/11/25	06/12/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2504879	06/11/25	06/11/25	SM4500-P E	
Total Suspended Solids	ND	3.1	3.1	"	"	2504986	06/13/25	06/17/25	SM2540D	QRL-2
WQ - LMC - 7 (25F0546-02) Water Sampled: 06/09/25 14:45 Received: 06/10/25 13:49										
Ammonia as N	**0.071**	0.025	0.10	mg/L	1	2504952	06/12/25	06/13/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.45**	0.026	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2504868	06/10/25	06/10/25	SM4500-P E	
Sulfate as SO4	**11**	0.038	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Total Alkalinity	**18**	1.0	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Total Dissolved Solids	**46**	5.0	10	"	"	2504949	06/12/25	06/16/25	SM2540C	
Total Kjeldahl Nitrogen	**0.18**	0.040	0.20	"	"	2504976	06/13/25	06/13/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2504908	06/11/25	06/12/25	SM5310B	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 7 (25F0546-02) Water Sampled: 06/09/25 14:45 Received: 06/10/25 13:49										
Total Organic Carbon, Dissolved	ND	0.54	1.0	mg/L	1	2504908	"	06/12/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2504879	06/11/25	06/11/25	SM4500-P E	
Total Suspended Solids	**6.4**	3.1	3.1	"	"	2504986	06/13/25	06/17/25	SM2540D	
WQ - MCRD - 6 (25F0546-03) Water Sampled: 06/09/25 15:10 Received: 06/10/25 13:49										
Ammonia as N	**0.068**	0.025	0.10	mg/L	1	2504952	06/12/25	06/13/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**16**	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.44**	0.026	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2504868	06/10/25	06/10/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Total Alkalinity	**16**	1.0	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Total Dissolved Solids	**42**	5.0	10	"	"	2504949	06/12/25	06/16/25	SM2540C	
Total Kjeldahl Nitrogen	**0.24**	0.040	0.20	"	"	2504976	06/13/25	06/13/25	SM4500-NH3F-2011	
Total Organic Carbon	**0.94**	0.54	1.0	"	"	2504908	06/11/25	06/12/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2504879	06/11/25	06/11/25	SM4500-P E	
Total Suspended Solids	ND	2.8	2.8	"	"	2504986	06/13/25	06/17/25	SM2540D	QRL-2
WQ - MCRD - 6 - DUP (25F0546-04) Water Sampled: 06/09/25 15:20 Received: 06/10/25 13:49										
Ammonia as N	**0.11**	0.025	0.10	mg/L	1	2504952	06/12/25	06/13/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.44**	0.026	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2504868	06/10/25	06/10/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCRD - 6 - DUP (25F0546-04) Water Sampled: 06/09/25 15:20 Received: 06/10/25 13:49										
Total Alkalinity	**17**	1.0	5.0	mg/L	1	2504945	06/12/25	06/12/25	SM2320B	
Total Dissolved Solids	**44**	5.0	10	"	"	2504949	06/12/25	06/16/25	SM2540C	
Total Kjeldahl Nitrogen	**0.089**	0.040	0.20	"	"	2504976	06/13/25	06/13/25	SM4500-NH3F-2011	
Total Organic Carbon	**1.1**	0.54	1.0	"	"	2504908	06/11/25	06/12/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2504879	06/11/25	06/11/25	SM4500-P E	
Total Suspended Solids	ND	2.8	2.8	"	"	2504986	06/13/25	06/17/25	SM2540D	QRL-2
WQ - MCBR - 5 (25F0546-05) Water Sampled: 06/09/25 15:40 Received: 06/10/25 13:49										
Ammonia as N	**0.087**	0.025	0.10	mg/L	1	2504952	06/12/25	06/13/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**20**	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.47**	0.026	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Nitrate as N	**0.053**	0.053	0.40	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Orthophosphate as PO4	**0.021**	0.0051	0.15	"	"	2504868	06/10/25	06/10/25	SM4500-P E	
Sulfate as SO4	**11**	0.038	0.50	"	"	2504827	06/10/25	06/10/25	EPA 300.0	
Total Alkalinity	**20**	1.0	5.0	"	"	2504945	06/12/25	06/12/25	SM2320B	
Total Dissolved Solids	**49**	5.0	10	"	"	2504949	06/12/25	06/16/25	SM2540C	
Total Kjeldahl Nitrogen	**0.12**	0.040	0.20	"	"	2504976	06/13/25	06/13/25	SM4500-NH3F-2011	
Total Organic Carbon	**1.2**	0.54	1.0	"	"	2504908	06/11/25	06/12/25	SM5310B	
Total Organic Carbon, Dissolved	**0.68**	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	**0.041**	0.023	0.050	"	"	2504879	06/11/25	06/11/25	SM4500-P E	
Total Suspended Solids	**7.9**	2.8	2.8	"	"	2504986	06/13/25	06/17/25	SM2540D	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (25F0546-01) Water Sampled: 06/09/25 14:00 Received: 06/10/25 13:49										
Antimony	ND	0.34	6.0	µg/L	1	2504875	06/11/25	06/11/25	EPA 200.8	
Arsenic	ND	0.45	2.0	"	"	"	"	"	"	
Barium	ND	1.6	20	"	"	2504873	06/11/25	06/11/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	ND	0.044	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Chromium	**0.47**	0.14	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.090**	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	ND	0.043	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2504882	06/11/25	06/11/25	EPA 245.1	
Molybdenum	**0.21**	0.11	2.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Nickel	**0.19**	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**0.44**	0.029	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Thallium	**0.050**	0.030	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.3**	0.27	10	"	"	"	"	"	"	
WQ - LMC - 7 (25F0546-02) Water Sampled: 06/09/25 14:45 Received: 06/10/25 13:49										
Antimony	ND	0.34	6.0	µg/L	1	2504875	06/11/25	06/11/25	EPA 200.8	
Arsenic	**4.0**	0.45	2.0	"	"	"	"	"	"	
Barium	**17**	1.6	20	"	"	2504873	06/11/25	06/11/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.2**	0.044	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Chromium	**0.17**	0.14	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cobalt	**0.074**	0.060	2.0	"	"	"	"	"	"	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 7 (25F0546-02) Water	**Sampled: 06/09/25 14:45**		**Received: 06/10/25 13:49**							
Copper	**0.37**	0.090	2.0	µg/L	1	2504875	"	06/11/25	EPA 200.8	
Lead	**0.26**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.58**	0.043	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2504882	06/11/25	06/11/25	EPA 245.1	
Molybdenum	**1.6**	0.11	2.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Nickel	**0.20**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.92**	0.13	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.8**	0.029	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Thallium	**0.030**	0.030	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**2.0**	0.27	10	"	"	"	"	"	"	
WQ - MCRD - 6 (25F0546-03) Water	**Sampled: 06/09/25 15:10**		**Received: 06/10/25 13:49**							
Antimony	ND	0.34	6.0	µg/L	1	2504875	06/11/25	06/11/25	EPA 200.8	
Arsenic	**4.3**	0.45	2.0	"	"	"	"	"	"	
Barium	**8.4**	1.6	20	"	"	2504873	06/11/25	06/11/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.3**	0.044	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Chromium	**0.24**	0.14	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.27**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.12**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.39**	0.043	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2504882	06/11/25	06/11/25	EPA 245.1	
Molybdenum	**1.2**	0.11	2.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Nickel	**0.17**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.75**	0.13	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCRD - 6 (25F0546-03) Water Sampled: 06/09/25 15:10 Received: 06/10/25 13:49										
Silver	ND	0.070	0.50	µg/L	1	2504875	"	06/11/25	EPA 200.8	
Sodium	**1.4**	0.029	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.2**	0.27	10	"	"	"	"	"	"	
WQ - MCRD - 6 - DUP (25F0546-04) Water Sampled: 06/09/25 15:20 Received: 06/10/25 13:49										
Antimony	ND	0.34	6.0	µg/L	1	2504875	06/11/25	06/11/25	EPA 200.8	
Arsenic	**2.9**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.7**	1.6	20	"	"	2504873	06/11/25	06/11/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**8.8**	0.044	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.14**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.11**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.36**	0.043	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2504882	06/11/25	06/11/25	EPA 245.1	
Molybdenum	**1.3**	0.11	2.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.73**	0.13	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.3**	0.029	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Thallium	**0.048**	0.030	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.94**	0.27	10	"	"	"	"	"	"	

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCBR - 5 (25F0546-05) Water	**Sampled: 06/09/25 15:40**		**Received: 06/10/25 13:49**							
Antimony	ND	0.34	6.0	µg/L	1	2504875	06/11/25	06/11/25	EPA 200.8	
Arsenic	**2.8**	0.45	2.0	"	"	"	"	"	"	
Barium	**23**	1.6	20	"	"	2504873	06/11/25	06/11/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.1**	0.044	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Cobalt	**0.091**	0.060	2.0	"	"	"	"	"	"	
Copper	**0.41**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.33**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.66**	0.043	1.0	mg/L	"	2504873	06/11/25	06/11/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2504882	06/11/25	06/11/25	EPA 245.1	
Molybdenum	**1.9**	0.11	2.0	"	"	2504875	06/11/25	06/11/25	EPA 200.8	
Nickel	**0.17**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.74**	0.13	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.1**	0.029	1.0	mg/L	"	2504873	06/11/25	06/12/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2504875	06/11/25	06/11/25	EPA 200.8	
Vanadium	**0.10**	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.9**	0.27	10	"	"	"	"	"	"	

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504827 - General Prep											
Blank (2504827-BLK1)					Prepared & Analyzed: 06/10/25						
Sulfate as SO4	ND	0.038	0.50	mg/L							
Chloride	ND	0.026	0.50	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2504827-BS1)					Prepared & Analyzed: 06/10/25						
Sulfate as SO4	4.95	0.038	0.50	mg/L	5.00		99	80-120			
Chloride	4.62	0.026	0.50	"	5.00		92	80-120			
Nitrate as N	1.95	0.053	0.40	"	2.00		97	80-120			
LCS Dup (2504827-BSD1)					Prepared & Analyzed: 06/10/25						
Sulfate as SO4	4.95	0.038	0.50	mg/L	5.00		99	80-120	0.04	20	
Chloride	4.61	0.026	0.50	"	5.00		92	80-120	0.2	20	
Nitrate as N	1.95	0.053	0.40	"	2.00		97	80-120	0.09	20	
Matrix Spike (2504827-MS1)			**Source: 25F0489-05**		Prepared & Analyzed: 06/10/25						
Sulfate as SO4	22.7	0.038	0.50	mg/L	5.00	18.0	95	80-120			
Chloride	38.4	0.026	0.50	"	5.00	35.2	62	80-120			QM-7
Nitrate as N	3.32	0.053	0.40	"	2.00	1.36	98	80-120			
Matrix Spike Dup (2504827-MSD1)			**Source: 25F0489-05**		Prepared & Analyzed: 06/10/25						
Sulfate as SO4	22.8	0.038	0.50	mg/L	5.00	18.0	95	80-120	0.1	20	
Chloride	38.4	0.026	0.50	"	5.00	35.2	63	80-120	0.2	20	QM-7
Nitrate as N	3.32	0.053	0.40	"	2.00	1.36	98	80-120	0.3	20	
Batch 2504868 - General Preparation											
Blank (2504868-BLK1)					Prepared & Analyzed: 06/10/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504868 - General Preparation											
LCS (2504868-BS1)					Prepared & Analyzed: 06/10/25						
Orthophosphate as PO4	0.868	0.0051	0.15	mg/L	0.918		95	80-120			
LCS Dup (2504868-BSD1)					Prepared & Analyzed: 06/10/25						
Orthophosphate as PO4	0.876	0.0051	0.15	mg/L	0.918		95	80-120	1	20	
Matrix Spike (2504868-MS1)			**Source: 25F0546-01**		Prepared & Analyzed: 06/10/25						
Orthophosphate as PO4	0.898	0.0051	0.15	mg/L	0.918	ND	98	75-125			
Matrix Spike Dup (2504868-MSD1)			**Source: 25F0546-01**		Prepared & Analyzed: 06/10/25						
Orthophosphate as PO4	0.955	0.0051	0.15	mg/L	0.918	ND	104	75-125	6	25	
Batch 2504879 - General Preparation											
Blank (2504879-BLK1)					Prepared & Analyzed: 06/11/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2504879-BS1)					Prepared & Analyzed: 06/11/25						
Total Phosphorus as P	0.328	0.023	0.050	mg/L	0.300		109	80-120			
LCS Dup (2504879-BSD1)					Prepared & Analyzed: 06/11/25						
Total Phosphorus as P	0.328	0.023	0.050	mg/L	0.300		109	80-120	0	25	
Matrix Spike (2504879-MS1)			**Source: 25F0546-01**		Prepared & Analyzed: 06/11/25						
Total Phosphorus as P	0.294	0.023	0.050	mg/L	0.300	ND	98	75-125			
Matrix Spike Dup (2504879-MSD1)			**Source: 25F0546-01**		Prepared & Analyzed: 06/11/25						
Total Phosphorus as P	0.299	0.023	0.050	mg/L	0.300	ND	100	75-125	2	30	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504908 - General Preparation											
Blank (2504908-BLK1)					Prepared: 06/11/25 Analyzed: 06/12/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							
LCS (2504908-BS1)					Prepared: 06/11/25 Analyzed: 06/12/25						
Total Organic Carbon	9.44	0.54	1.0	mg/L	10.0		94	75-125			
Total Organic Carbon, Dissolved	9.44	0.54	1.0	"	10.0		94	75-125			
LCS Dup (2504908-BSD1)					Prepared: 06/11/25 Analyzed: 06/12/25						
Total Organic Carbon	9.34	0.54	1.0	mg/L	10.0		93	75-125	1	25	
Total Organic Carbon, Dissolved	9.34	0.54	1.0	"	10.0		93	75-125	1	25	
Matrix Spike (2504908-MS1)			**Source: 25F0546-01**		Prepared: 06/11/25 Analyzed: 06/12/25						
Total Organic Carbon	ND	0.54	1.0	mg/L	10.0	ND		75-125			QM-7
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	10.0	ND		75-125			QM-7
Matrix Spike Dup (2504908-MSD1)			**Source: 25F0546-01**		Prepared: 06/11/25 Analyzed: 06/12/25						
Total Organic Carbon	0.659	0.54	1.0	mg/L	10.0	ND	7	75-125		25	QM-7
Total Organic Carbon, Dissolved	0.659	0.54	1.0	"	10.0	ND	7	75-125		30	QM-7
Batch 2504945 - General Preparation											
Blank (2504945-BLK1)					Prepared & Analyzed: 06/12/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504945 - General Preparation											
Duplicate (2504945-DUP1)			**Source: 25F0465-01**		Prepared & Analyzed: 06/12/25						
Total Alkalinity	ND	1.0	5.0	mg/L		ND				20	
Bicarbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Batch 2504949 - General Preparation											
Blank (2504949-BLK1)					Prepared: 06/12/25 Analyzed: 06/16/25						
Total Dissolved Solids	ND	5.0	10	mg/L							
LCS (2504949-BS1)					Prepared: 06/12/25 Analyzed: 06/16/25						
Total Dissolved Solids	48.0	5.0	10	mg/L	50.0		96	80-120			
LCS Dup (2504949-BSD1)					Prepared: 06/12/25 Analyzed: 06/16/25						
Total Dissolved Solids	46.0	5.0	10	mg/L	50.0		92	80-120	4	200	
Duplicate (2504949-DUP1)			**Source: 25F0544-02**		Prepared: 06/12/25 Analyzed: 06/16/25						
Total Dissolved Solids	442	5.0	10	mg/L		432			2	20	
Batch 2504952 - General Preparation											
Blank (2504952-BLK1)					Prepared: 06/12/25 Analyzed: 06/13/25						
Ammonia as N	0.0270	0.025	0.10	mg/L							
LCS (2504952-BS1)					Prepared: 06/12/25 Analyzed: 06/13/25						
Ammonia as N	0.466	0.025	0.10	mg/L	0.500		93	80-120			

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504952 - General Preparation											
LCS Dup (2504952-BSD1)					Prepared: 06/12/25 Analyzed: 06/13/25						
Ammonia as N	0.481	0.025	0.10	mg/L	0.500		96	80-120	3	25	
Matrix Spike (2504952-MS1)			**Source: 25F0546-01**		Prepared: 06/12/25 Analyzed: 06/13/25						
Ammonia as N	0.533	0.025	0.10	mg/L	0.500	0.0890	89	75-125			
Matrix Spike Dup (2504952-MSD1)			**Source: 25F0546-01**		Prepared: 06/12/25 Analyzed: 06/13/25						
Ammonia as N	0.520	0.025	0.10	mg/L	0.500	0.0890	86	75-125	2	25	
Batch 2504976 - General Preparation											
Blank (2504976-BLK1)					Prepared & Analyzed: 06/13/25						
Total Kjeldahl Nitrogen	ND	0.040	0.20	mg/L							
LCS (2504976-BS1)					Prepared & Analyzed: 06/13/25						
Total Kjeldahl Nitrogen	0.452	0.040	0.20	mg/L	0.500		90	80-120			
LCS Dup (2504976-BSD1)					Prepared & Analyzed: 06/13/25						
Total Kjeldahl Nitrogen	0.463	0.040	0.20	mg/L	0.500		93	80-120	2	20	
Matrix Spike (2504976-MS1)			**Source: 25F0546-02**		Prepared & Analyzed: 06/13/25						
Total Kjeldahl Nitrogen	0.540	0.040	0.20	mg/L	0.500	0.183	71	75-125			QM-7
Matrix Spike Dup (2504976-MSD1)			**Source: 25F0546-02**		Prepared & Analyzed: 06/13/25						
Total Kjeldahl Nitrogen	0.513	0.040	0.20	mg/L	0.500	0.183	66	75-125	5	25	QM-7
Batch 2504986 - General Preparation											
Blank (2504986-BLK1)					Prepared: 06/13/25 Analyzed: 06/17/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504986 - General Preparation											
LCS (2504986-BS1)					Prepared: 06/13/25 Analyzed: 06/17/25						
Total Suspended Solids	98.2	2.5	2.5	mg/L	100		98	80-120			
LCS Dup (2504986-BSD1)					Prepared: 06/13/25 Analyzed: 06/17/25						
Total Suspended Solids	97.8	2.5	2.5	mg/L	100		98	80-120	0.4	200	
Duplicate (2504986-DUP1)			**Source: 25F0621-01**		Prepared: 06/13/25 Analyzed: 06/17/25						
Total Suspended Solids	179	25	25	mg/L		180			0.6	20	

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504873 - EPA 200 Series											
Blank (2504873-BLK1)					Prepared & Analyzed: 06/11/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	ND	0.043	1.0	"							
Barium	ND	1.6	20	µg/L							
Potassium	ND	0.13	1.0	mg/L							
Sodium	0.107	0.029	1.0	"							
LCS (2504873-BS1)					Prepared & Analyzed: 06/11/25						
Calcium	5.14	0.044	1.0	mg/L	5.00		103	85-115			
Magnesium	5.16	0.043	1.0	"	5.00		103	85-115			
Barium	557	1.6	20	µg/L	500		111	85-115			
Potassium	5.66	0.13	1.0	mg/L	5.00		113	85-115			
Sodium	5.58	0.029	1.0	"	5.00		112	85-115			
Matrix Spike (2504873-MS1)			**Source: 25F0415-01**		Prepared & Analyzed: 06/11/25						
Calcium	7.91	0.044	1.0	mg/L	5.00	2.95	99	70-130			
Magnesium	5.86	0.043	1.0	"	5.00	0.746	102	70-130			
Barium	574	1.6	20	µg/L	500	14.1	112	70-130			
Potassium	5.22	0.13	1.0	mg/L	5.00	ND	104	70-130			
Sodium	7.59	0.029	1.0	"	5.00	2.42	103	70-130			
Matrix Spike (2504873-MS2)			**Source: 25F0546-01**		Prepared & Analyzed: 06/11/25						
Calcium	5.12	0.044	1.0	mg/L	5.00	ND	102	70-130			
Barium	546	1.6	20	µg/L	500	ND	109	70-130			
Magnesium	5.11	0.043	1.0	mg/L	5.00	ND	102	70-130			
Potassium	4.69	0.13	1.0	"	5.00	ND	94	70-130			
Sodium	5.77	0.029	1.0	"	5.00	0.443	106	70-130			

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504875 - EPA 200 Series											
Blank (2504875-BLK1)					Prepared & Analyzed: 06/11/25						
Antimony	ND	0.34	6.0	µg/L							
Arsenic	ND	0.45	2.0	"							
Barium	ND	0.14	5.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	0.333	0.14	1.0	"							
Cobalt	ND	0.060	2.0	"							
Copper	ND	0.090	2.0	"							
Lead	ND	0.020	5.0	"							
Molybdenum	0.196	0.11	2.0	"							
Nickel	0.136	0.13	2.0	"							
Selenium	ND	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	0.0670	0.030	1.0	"							
Vanadium	ND	0.070	3.0	"							
Zinc	ND	0.27	10	"							
LCS (2504875-BS1)					Prepared & Analyzed: 06/11/25						
Antimony	109	0.34	6.0	µg/L	100		109	85-115			
Arsenic	101	0.45	2.0	"	100		101	85-115			
Barium	107	0.14	5.0	"	100		107	85-115			
Beryllium	109	0.31	1.0	"	100		109	85-115			
Cadmium	106	0.17	0.50	"	100		106	85-115			
Chromium	103	0.14	1.0	"	100		103	85-115			
Cobalt	104	0.060	2.0	"	100		104	85-115			
Copper	106	0.090	2.0	"	100		106	85-115			
Lead	104	0.020	5.0	"	100		104	85-115			
Molybdenum	104	0.11	2.0	"	100		104	85-115			
Nickel	105	0.13	2.0	"	100		105	85-115			
Selenium	102	0.75	5.0	"	100		102	85-115			
Silver	104	0.070	0.50	"	100		104	85-115			
Thallium	103	0.030	1.0	"	100		103	85-115			

06/18/25 10:25

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25F0546
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504875 - EPA 200 Series											
LCS (2504875-BS1)					Prepared & Analyzed: 06/11/25						
Vanadium	104	0.070	3.0	µg/L	100		104	85-115			
Zinc	105	0.27	10	"	100		105	85-115			
Matrix Spike (2504875-MS1)			**Source: 25F0543-01**		Prepared & Analyzed: 06/11/25						
Antimony	104	0.34	6.0	µg/L	100	ND	104	70-130			
Arsenic	99.7	0.45	2.0	"	100	4.64	95	70-130			
Barium	121	0.14	5.0	"	100	16.4	105	70-130			
Beryllium	109	0.31	1.0	"	100	ND	109	70-130			
Cadmium	103	0.17	0.50	"	100	ND	103	70-130			
Chromium	98.4	0.14	1.0	"	100	ND	98	70-130			
Cobalt	99.4	0.060	2.0	"	100	ND	99	70-130			
Copper	103	0.090	2.0	"	100	1.15	102	70-130			
Lead	101	0.020	5.0	"	100	0.0340	101	70-130			
Molybdenum	103	0.11	2.0	"	100	4.52	99	70-130			
Nickel	102	0.13	2.0	"	100	0.990	101	70-130			
Selenium	94.7	0.75	5.0	"	100	ND	95	70-130			
Silver	99.9	0.070	0.50	"	100	ND	100	70-130			
Thallium	97.9	0.030	1.0	"	100	0.0330	98	70-130			
Vanadium	99.0	0.070	3.0	"	100	ND	99	70-130			
Zinc	105	0.27	10	"	100	12.0	93	70-130			
Batch 2504882 - EPA 7470A											
Blank (2504882-BLK1)					Prepared & Analyzed: 06/11/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2504882-BS1)					Prepared & Analyzed: 06/11/25						
Mercury	4.85	0.15	0.20	µg/L	5.00		97	85-115			

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2504882 - EPA 7470A											
Matrix Spike (2504882-MS1)			**Source: 25F0483-01**		Prepared & Analyzed: 06/11/25						
Mercury	4.66	0.15	0.20	µg/L	5.00	ND	93	70-130			
Matrix Spike (2504882-MS2)			**Source: 25F0555-02**		Prepared & Analyzed: 06/11/25						
Mercury	4.65	0.15	0.20	µg/L	5.00	ND	93	70-130			
Matrix Spike Dup (2504882-MSD1)			**Source: 25F0483-01**		Prepared & Analyzed: 06/11/25						
Mercury	4.84	0.15	0.20	µg/L	5.00	ND	97	70-130	4	25	

06/18/25 10:25

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25F0546**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QRL-2	Elevated reporting limits due to limited sample volume.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 25F0546 (__of__)

Report To:	Client Job Number	ANALYSIS REQUESTED	STATE UPLOAD ☐ YES ☐ NO
Company: Stillwater Sciences			STATE SYSTEM #:
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory		GEOTRACTKER EDF REPORT ☐ YES ☐ NO
Project Manager: Christina Buck, Elliott Allen			GLOBAL ID:
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible.		FIELD CONDITIONS:
Project Name: Lundy WQ-1, 1017.00	☐ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com		
Sampled By: Michael Schweiker			
Job Description:			
Site Location:			

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Chlorophyll-a	Chloride, Conductivity	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
6/9/25	14:00	Field Blank		Water	10	125		X	X	X	X	X	X	X	X				X	Metals: Sb, As, Ba,
6/9/25	14:45	WQ-LMC-7			10															Be, Cd, Cr, Co, Cu,
6/9/25	15:10	WQ-MCRD-6			10															Pb, Hg, Mo, Ni, Se,
6/9/25	15:20	WQ-MCRD-6-DUP			10															Ag, Tl, V, Zn, Ca,
6/9/25	15:40	WQ-MCBR-5			10															Mg, K, Na
																				INVOICE TO:
																				PO#
																				QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Michael Schweiker/Stillwater Sciences	06/10/25-1350		
RECEIVED AT LAB BY:		DATE/TIME: 06/10/25-1349	CONDITIONS/COMMENTS: 4.0 / 4.6 / 0.6	
SHIPPED BY:	☐ FED EX ☐ UPS ☐ OTHER		AIR BILL #	

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2506625

Report Created for: CLS Labs

3249 Fitzgerald Road
Rancho Cordova, CA 95742

Project Contact: CLS Sub email
Project P.O.:
Project: 25F0546

Project Location:
Project Received: 06/11/2025

Analytical Report reviewed & approved for release on 06/18/2025 by:

Yen Cao

Yen Cao
Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2506625

Project: 25F0546

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2506625

Project: 25F0546

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	CLS Labs	**WorkOrder:**	2506625
Date Received:	06/11/2025 12:15	**Extraction Method:**	SM10200 Part 4
Date Prepared:	06/11/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25F0546	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Field Blank	2506625-001A	Water	06/09/2025 14:00	HPLC5 061225000006.D	319117

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	06/12/2025 16:48

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-7	2506625-002A	Water	06/09/2025 14:45	HPLC5 061225000007.D	319117

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	**5.5**	5.0	1	06/12/2025 17:49

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCRD-6	2506625-003A	Water	06/09/2025 15:10	HPLC5 061225000008.D	319117

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	**7.2**	5.0	1	06/12/2025 18:50

Analyst(s): HAD

(Cont.)

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2506625
Date Received:	06/11/2025 12:15	**Extraction Method:**	SM10200 Part 4
Date Prepared:	06/11/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25F0546	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCRD-6 DUP	**2506625-004A**	**Water**	**06/09/2025 15:20**	**HPLC5 061225000009.D**	**319117**

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	**7.1**	5.0	1	06/12/2025 19:51

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5	**2506625-005A**	**Water**	**06/09/2025 15:40**	**HPLC5 061225000010.D**	**319117**

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	06/12/2025 20:52

Analyst(s): HAD

McCampbell Analytical, Inc.
"When Quality Counts"

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Quality Control Report

Client:	CLS Labs	**WorkOrder:**	2506625
Date Prepared:	06/11/2025	**BatchID:**	319117
Date Analyzed:	06/12/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	25F0546	**Sample ID:**	MB/LCS/LCSD-319117

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	51	50	50	102	100	70-130	2.46	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2506625 **ClientCode: CLSR** **QuoteID: 252687**

☐ WaterTrax ☐ CLIP ☐ EDF ☒ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☒ Detection Summary ☐ Excel

Report to:
CLS Sub email
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
916-638-7301 FAX: (916) 638-4510

Email: sub@californialab.com
cc/3rd Party:
PO:
Project: 25F0546

Bill to:
Accounts Payable
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Requested TAT: **5 days;**

Date Received: **06/11/2025**
Date Logged: **06/11/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2506625-001	Field Blank	Water	6/9/2025 14:00	☐	A	A										
2506625-002	WQ-LMC-7	Water	6/9/2025 14:45	☐	A	A										
2506625-003	WQ-MCRD-6	Water	6/9/2025 15:10	☐	A	A										
2506625-004	WQ-MCRD-6 DUP	Water	6/9/2025 15:20	☐	A	A										
2506625-005	WQ-MCBR-5	Water	6/9/2025 15:40	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Yen Cao **Prepared by: Gemma Gomez**

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25F0546

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2506625
QC Level: LEVEL 2
Date Logged: 6/11/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Field Blank	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	6/9/2025 14:00	5 days	6/18/2025	Trace	☐	☐
002A	WQ-LMC-7	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	6/9/2025 14:45	5 days	6/18/2025	Trace	☐	☐
003A	WQ-MCRD-6	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	6/9/2025 15:10	5 days	6/18/2025	Trace	☐	☐
004A	WQ-MCRD-6 DUP	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	6/9/2025 15:20	5 days	6/18/2025	Trace	☐	☐
005A	WQ-MCBR-5	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	6/9/2025 15:40	5 days	6/18/2025	Trace	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

25706625

SUBCONTRACT ORDER

25F0546

Quote ID 252687

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Client Services
[redacted]

RECEIVING LABORATORY:

McCampbell Analytical Inc.
1534 Willow Pass Road
Pittsburg, CA 94565-1701
Phone :(925) 252-9262
Fax: (925) 252-9269

[redacted]

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	06/18/25 15:00	06/11/25 14:00	25F0546-01	06/09/25 14:00	06/10/25 13:49	Water

Client sample ID: Field Blank
Laboratory sample ID: 25F0546-01
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	06/18/25 15:00	06/11/25 14:45	25F0546-02	06/09/25 14:45	06/10/25 13:49	Water

Client sample ID: WQ - LMC - 7
Laboratory sample ID: 25F0546-02
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	06/18/25 15:00	06/11/25 15:10	25F0546-03	06/09/25 15:10	06/10/25 13:49	Water

Client sample ID: WQ - MCRD - 6
Laboratory sample ID: 25F0546-03
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

[redacted]	06/11/25	PB	6/11/25	840
Relinquished By	Date	Received By	Date	
PB	6/12/25 1205	[redacted]	6/11/25	12:13
Relinquished By	Date	Received By	Date	
CLS				
Shipped By	Airbill Number			

Page 1 of 2

24 hr TAT

2506625

SUBCONTRACT ORDER

25F0546

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	06/18/25 15:00	06/11/25 15:20	25F0546-04	06/09/25 15:20	06/10/25 13:49	Water

Client sample ID: WQ - MCRD - 6 - DUP
Laboratory sample ID: 25F0546-04
Please use client sample ID on all reports

Sampler:

Containers Supplied:
1L Amber- Unpres. (D)

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	06/18/25 15:00	06/11/25 15:40	25F0546-05	06/09/25 15:40	06/10/25 13:49	Water

Client sample ID: WQ - MCBR - 5
Laboratory sample ID: 25F0546-05
Please use client sample ID on all reports

Sampler:

Containers Supplied:
1L Amber- Unpres. (D)

[signature]	06/11/25	[signature]	6/11/25	840
Relinquished By	Date	Received By	Date	
PB	6/12/25 1215	[signature]	6/11/25	12:15
Relinquished By	Date	Received By	Date	
CES				
Shipped By	Airbill Number			

Page 2 of 2

2.4 wet

Subcontract Sample Receipt Checklist

2506625

CLS Work Order Number: 25F0546

Chain of Custody (COC) Information

Carrier Name CLS

Chain of custody present?	Yes ☐	No ☐
Chain of custody signed when relinquished and received?	Yes ☐	No ☐
Chain of custody agrees with sample labels?	Yes ☐	Non-Compliant ☐

Sample Receipt Information

Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☐
Samples in proper container/bottle?	Yes ☐	Non-Compliant ☐	
Sample containers intact?	Yes ☐	No ☐	
Sufficient sample volume for indicated test?	Yes ☐	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☐
Temperature upon receipt: _____ C		
Wet Ice present in Cooler?	Yes ☐	No ☐
Blue Ice present in Cooler?	Yes ☐	No ☐

Analytical Requirement Information

Are non-Standard of Modified methods requested?	Yes ☐	No ☐
Subcontract Lab CERTIFIED for the various methods requested?	Yes ☐	No ☐
Will Subcontract Lab be able to meet the turn-around time (TAT) requirements?	Yes ☐	No ☐

Subcontract Lab Information

Work Order Number assigned by Subcontract Lab _____

Date received at Subcontract Lab _____

If any items are check marked NO or are non-compliant, a phone call back to California Laboratory Services is required immediately. If all items are acceptable, a faxed copy of the signed sub chain of custody (COC) and the completed sample receipt check list is required within 24 hours of sample receipt.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	CLS Labs	Date and Time Received:	6/11/2025 12:15
Project:	25F0546	Date Logged:	6/11/2025
		Received by:	Gemma Gomez
WorkOrder №:	2506625 Matrix: Water	Logged by:	Gemma Gomez
Carrier:	Patrick Johnson (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☑	No	☐	NA	☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 2.4°C				NA	☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2)?	Yes	☐	No	☐	NA	☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA	☑

Comments: Sample 2506625-001A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2506625-002A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2506625-003A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2506625-004A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved. Sample 2506625-005A with method SM10200 H Part 4 (Chlorophyll A & B) was received unpreserved.

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

July 23, 2025

CLS Work Order #: 25G0951
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 07/16/25 13:06. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

07/23/25 15:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0951**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WT-LL-13-surf (25G0951-01) Water	**Sampled: 07/15/25 11:00**		**Received: 07/16/25 13:06**							
Calcium	**8.5**	0.014	1.0	mg/L	1	2505985	07/17/25	07/22/25	EPA 200.7	
WT-LL-11 (25G0951-02) Water	**Sampled: 07/15/25 14:30**		**Received: 07/16/25 13:06**							
Calcium	**8.7**	0.014	1.0	mg/L	1	2505985	07/17/25	07/22/25	EPA 200.7	
WT-LL-12 (25G0951-03) Water	**Sampled: 07/15/25 15:00**		**Received: 07/16/25 13:06**							
Calcium	**7.2**	0.014	1.0	mg/L	1	2505985	07/17/25	07/21/25	EPA 200.7	

07/23/25 15:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0951**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2505985 - EPA 200 Series											
Blank (2505985-BLK1)					Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	0.0332	0.014	1.0	mg/L							J
LCS (2505985-BS1)					Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	5.27	0.014	1.0	mg/L	5.00		105	85-115			
Matrix Spike (2505985-MS1)			**Source: 25G0809-02**		Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	6.73	0.014	1.0	mg/L	5.00	2.41	86	70-130			
Matrix Spike (2505985-MS2)			**Source: 25G0951-03**		Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	4.33	0.014	1.0	mg/L	5.00	7.24	NR	70-130			QM-7

07/23/25 15:27

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0951**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 2560951 (__ of __)

Report To:	Client Job Number
Company: Stillwater Sciences	
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory
Project Manager: Christina Buck, Elliott Allen	
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible.
Project Name: Lundy WQ-1, 1017.00	
Sampled By: Michael Schweiker	□ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com
Job Description:	
Site Location:	

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #: _____

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID: _____

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Calcium	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
7/15/25	11:00	WT-LL-13-surf		Water				X				X	
1	14:30	WT-LL-11						X				X	
1	15:00	WT-LL-12						X				X	
													INVOICE TO:
													PO#
													QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6)= $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	Michael Schweiker/SWS	7/16/25		

RECEIVED AT LAB BY: [signature] **DATE/TIME:** 7/16/25 1306 **CONDITIONS/COMMENTS:** 1.4 / 2.0

SHIPPED BY: □ FED EX □ UPS □ OTHER _____ **AIR BILL #** _____

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

July 24, 2025

CLS Work Order #: 25G0950
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 07/16/25 13:06. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (25G0950-01) Water Sampled: 07/15/25 17:00 Received: 07/16/25 13:06										
Ammonia as N	**0.094**	0.025	0.10	mg/L	1	2506014	07/17/25	07/17/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**5.2**	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.35**	0.026	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Orthophosphate as PO4	**0.064**	0.0051	0.15	"	"	2505962	07/16/25	07/16/25	SM4500-P E	J
Sulfate as SO4	**0.13**	0.038	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	J
Total Alkalinity	**5.2**	1.0	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Total Dissolved Solids	ND	5.0	10	"	"	2506044	07/18/25	07/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.15**	0.040	0.20	"	"	2506049	07/18/25	07/18/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2506078	07/21/25	07/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	07/21/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2506092	07/22/25	07/22/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2506038	07/18/25	07/21/25	SM2540D	
WQ - MCBR - 5 (25G0950-02) Water Sampled: 07/15/25 17:20 Received: 07/16/25 13:06										
Ammonia as N	ND	0.025	0.10	mg/L	1	2506014	07/17/25	07/17/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**22**	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.47**	0.026	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Orthophosphate as PO4	**0.12**	0.0051	0.15	"	"	2505962	07/16/25	07/16/25	SM4500-P E	J
Sulfate as SO4	**11**	0.038	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Total Alkalinity	**22**	1.0	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Total Dissolved Solids	**51**	5.0	10	"	"	2506044	07/18/25	07/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.23**	0.040	0.20	"	"	2506049	07/18/25	07/18/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2506078	07/21/25	07/21/25	SM5310B	

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCBR - 5 (25G0950-02) Water	**Sampled: 07/15/25 17:20**	**Received: 07/16/25 13:06**								
Total Organic Carbon, Dissolved	ND	0.54	1.0	mg/L	1	2506078	"	07/21/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2506092	07/22/25	07/22/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2506038	07/18/25	07/21/25	SM2540D	
WQ - MCBR - 5 - DUP (25G0950-03) Water	**Sampled: 07/15/25 17:30**	**Received: 07/16/25 13:06**								
Ammonia as N	**0.038**	0.025	0.10	mg/L	1	2506014	07/17/25	07/17/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**26**	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.47**	0.026	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Orthophosphate as PO4	**0.11**	0.0051	0.15	"	"	2505962	07/16/25	07/16/25	SM4500-P E	J
Sulfate as SO4	**11**	0.038	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Total Alkalinity	**26**	1.0	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Total Dissolved Solids	**49**	5.0	10	"	"	2506044	07/18/25	07/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.52**	0.040	0.20	"	"	2506049	07/18/25	07/18/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2506078	07/21/25	07/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	07/21/25	SM 5310B	
Total Phosphorus as P	**0.028**	0.023	0.050	"	"	2506092	07/22/25	07/22/25	SM4500-P E	J
Total Suspended Solids	**4.1**	2.5	2.5	"	"	2506038	07/18/25	07/21/25	SM2540D	
WQ - MCRD - 6 (25G0950-04) Water	**Sampled: 07/15/25 18:30**	**Received: 07/16/25 13:06**								
Ammonia as N	**0.037**	0.025	0.10	mg/L	1	2506014	07/17/25	07/17/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**13**	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.41**	0.026	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Orthophosphate as PO4	**0.064**	0.0051	0.15	"	"	2505962	07/16/25	07/16/25	SM4500-P E	J
Sulfate as SO4	**12**	0.038	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCRD - 6 (25G0950-04) Water	**Sampled: 07/15/25 18:30**		**Received: 07/16/25 13:06**							
Total Alkalinity	**13**	1.0	5.0	mg/L	1	2505999	07/17/25	07/17/25	SM2320B	
Total Dissolved Solids	**43**	5.0	10	"	"	2506044	07/18/25	07/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.46**	0.040	0.20	"	"	2506049	07/18/25	07/18/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2506078	07/21/25	07/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	07/21/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2506092	07/22/25	07/22/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2506038	07/18/25	07/21/25	SM2540D	
WQ - LMC - 7 (25G0950-05) Water	**Sampled: 07/15/25 18:45**		**Received: 07/16/25 13:06**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2506014	07/17/25	07/17/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**22**	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.45**	0.026	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Orthophosphate as PO4	**0.082**	0.0051	0.15	"	"	2505962	07/16/25	07/16/25	SM4500-P E	J
Sulfate as SO4	**11**	0.038	0.50	"	"	2505937	07/16/25	07/16/25	EPA 300.0	
Total Alkalinity	**22**	1.0	5.0	"	"	2505999	07/17/25	07/17/25	SM2320B	
Total Dissolved Solids	**48**	5.0	10	"	"	2506044	07/18/25	07/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.76**	0.040	0.20	"	"	2506049	07/18/25	07/18/25	SM4500-NH3F-2011	
Total Organic Carbon	**0.66**	0.54	1.0	"	"	2506078	07/21/25	07/22/25	SM5310B	J
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	07/22/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2506092	07/22/25	07/22/25	SM4500-P E	
Total Suspended Solids	**4.4**	2.5	2.5	"	"	2506038	07/18/25	07/21/25	SM2540D	

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (25G0950-01) Water Sampled: 07/15/25 17:00 Received: 07/16/25 13:06										
Antimony	**0.36**	0.34	6.0	µg/L	1	2506021	07/18/25	07/18/25	EPA 200.8	J
Arsenic	ND	0.45	2.0	"	"	"	"	"	"	
Barium	**2.1**	1.6	20	"	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Cadmium	**0.19**	0.17	0.50	"	"	"	"	"	"	J
Calcium	**0.42**	0.044	1.0	mg/L	"	2505985	07/17/25	07/21/25	EPA 200.7	J
Chromium	**0.55**	0.14	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.41**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.054**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	ND	0.043	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2506039	07/18/25	07/21/25	EPA 245.1	
Molybdenum	**1.0**	0.11	2.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2505985	07/17/25	07/21/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**0.31**	0.029	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Thallium	**0.21**	0.030	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**3.5**	0.27	10	"	"	"	"	"	"	J
WQ - MCBR - 5 (25G0950-02) Water Sampled: 07/15/25 17:20 Received: 07/16/25 13:06										
Antimony	ND	0.34	6.0	µg/L	1	2506021	07/18/25	07/18/25	EPA 200.8	
Arsenic	**3.0**	0.45	2.0	"	"	"	"	"	"	
Barium	**26**	1.6	20	"	"	2505985	07/17/25	07/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**7.9**	0.044	1.0	mg/L	"	2505985	07/17/25	07/21/25	EPA 200.7	
Chromium	**0.35**	0.14	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Cobalt	**0.060**	0.060	2.0	"	"	"	"	"	"	J

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCBR - 5 (25G0950-02) Water	**Sampled: 07/15/25 17:20**		**Received: 07/16/25 13:06**							
Copper	**0.46**	0.090	2.0	µg/L	1	2506021	"	07/18/25	EPA 200.8	J
Lead	**0.23**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.86**	0.043	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2506039	07/18/25	07/21/25	EPA 245.1	
Molybdenum	**2.5**	0.11	2.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.72**	0.13	1.0	mg/L	"	2505985	07/17/25	07/21/25	EPA 200.7	J
Selenium	**1.5**	0.75	5.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.5**	0.029	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Thallium	**0.12**	0.030	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**4.0**	0.27	10	"	"	"	"	"	"	J
WQ - MCBR - 5 - DUP (25G0950-03) Water	**Sampled: 07/15/25 17:30**		**Received: 07/16/25 13:06**							
Antimony	ND	0.34	6.0	µg/L	1	2506021	07/18/25	07/18/25	EPA 200.8	
Arsenic	**2.4**	0.45	2.0	"	"	"	"	"	"	
Barium	**27**	1.6	20	"	"	2505985	07/17/25	07/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**8.6**	0.044	1.0	mg/L	"	2505985	07/17/25	07/21/25	EPA 200.7	
Chromium	**0.39**	0.14	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.49**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.20**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.88**	0.043	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2506039	07/18/25	07/21/25	EPA 245.1	
Molybdenum	**2.1**	0.11	2.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.75**	0.13	1.0	mg/L	"	2505985	07/17/25	07/21/25	EPA 200.7	J
Selenium	**0.94**	0.75	5.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCBR - 5 - DUP (25G0950-03) Water Sampled: 07/15/25 17:30 Received: 07/16/25 13:06										
Silver	ND	0.070	0.50	µg/L	1	2506021	"	07/18/25	EPA 200.8	
Sodium	**2.7**	0.029	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Thallium	**0.079**	0.030	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**3.8**	0.27	10	"	"	"	"	"	"	J
WQ - MCRD - 6 (25G0950-04) Water Sampled: 07/15/25 18:30 Received: 07/16/25 13:06										
Antimony	ND	0.34	6.0	µg/L	1	2506021	07/18/25	07/18/25	EPA 200.8	
Arsenic	**3.7**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.1**	1.6	20	"	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.5**	0.044	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Chromium	**0.37**	0.14	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.44**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.088**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.40**	0.043	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2506039	07/18/25	07/21/25	EPA 245.1	
Molybdenum	**1.3**	0.11	2.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.97**	0.13	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	QC-2H, J
Selenium	ND	0.75	5.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.1**	0.029	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Thallium	**0.059**	0.030	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**3.0**	0.27	10	"	"	"	"	"	"	J

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 7 (25G0950-05) Water	**Sampled: 07/15/25 18:45**	**Received: 07/16/25 13:06**								
Antimony	ND	0.34	6.0	µg/L	1	2506021	07/18/25	07/18/25	EPA 200.8	
Arsenic	**3.6**	0.45	2.0	"	"	"	"	"	"	
Barium	**20**	1.6	20	"	"	2505985	07/17/25	07/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.3**	0.044	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Chromium	**0.42**	0.14	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Cobalt	**0.068**	0.060	2.0	"	"	"	"	"	"	J
Copper	**0.60**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.22**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.74**	0.043	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2506039	07/18/25	07/21/25	EPA 245.1	
Molybdenum	**1.8**	0.11	2.0	"	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.48**	0.13	1.0	mg/L	"	2505985	07/17/25	07/23/25	EPA 200.7	J
Selenium	ND	0.75	5.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.1**	0.029	1.0	mg/L	"	2505985	07/17/25	07/22/25	EPA 200.7	
Thallium	**0.054**	0.030	1.0	µg/L	"	2506021	07/18/25	07/18/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**4.2**	0.27	10	"	"	"	"	"	"	J

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2505937 - General Prep											
Blank (2505937-BLK1)					Prepared & Analyzed: 07/16/25						
Sulfate as SO4	ND	0.038	0.50	mg/L							
Chloride	ND	0.026	0.50	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2505937-BS1)					Prepared & Analyzed: 07/16/25						
Sulfate as SO4	4.97	0.038	0.50	mg/L	5.00		99	80-120			
Chloride	4.93	0.026	0.50	"	5.00		99	80-120			
Nitrate as N	1.97	0.053	0.40	"	2.00		99	80-120			
LCS Dup (2505937-BSD1)					Prepared & Analyzed: 07/16/25						
Sulfate as SO4	4.99	0.038	0.50	mg/L	5.00		100	80-120	0.2	20	
Chloride	4.95	0.026	0.50	"	5.00		99	80-120	0.2	20	
Nitrate as N	1.98	0.053	0.40	"	2.00		99	80-120	0.2	20	
Matrix Spike (2505937-MS1)			**Source: 25G0840-03**		Prepared & Analyzed: 07/16/25						
Sulfate as SO4	24.7	0.038	0.50	mg/L	5.00	20.2	89	80-120			
Chloride	44.9	0.026	0.50	"	5.00	42.1	56	80-120			QM-7
Nitrate as N	3.29	0.053	0.40	"	2.00	1.32	99	80-120			
Matrix Spike Dup (2505937-MSD1)			**Source: 25G0840-03**		Prepared & Analyzed: 07/16/25						
Sulfate as SO4	24.6	0.038	0.50	mg/L	5.00	20.2	87	80-120	0.4	20	
Chloride	44.8	0.026	0.50	"	5.00	42.1	54	80-120	0.2	20	QM-7
Nitrate as N	3.24	0.053	0.40	"	2.00	1.32	96	80-120	2	20	
Batch 2505962 - General Preparation											
Blank (2505962-BLK1)					Prepared & Analyzed: 07/16/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2505962 - General Preparation											
LCS (2505962-BS1)					Prepared & Analyzed: 07/16/25						
Orthophosphate as PO4	0.942	0.0051	0.15	mg/L	0.918		103	80-120			
LCS Dup (2505962-BSD1)					Prepared & Analyzed: 07/16/25						
Orthophosphate as PO4	0.972	0.0051	0.15	mg/L	0.918		106	80-120	3	20	
Matrix Spike (2505962-MS1)			**Source: 25G0925-01**		Prepared & Analyzed: 07/16/25						
Orthophosphate as PO4	18.6	0.10	3.0	mg/L	0.918	12.0	719	75-125			QM-4X
Matrix Spike Dup (2505962-MSD1)			**Source: 25G0925-01**		Prepared & Analyzed: 07/16/25						
Orthophosphate as PO4	18.7	0.10	3.0	mg/L	0.918	12.0	729	75-125	0.5	25	QM-4X
Batch 2505999 - General Preparation											
Blank (2505999-BLK1)					Prepared & Analyzed: 07/17/25						
Total Alkalinity	1.60	1.0	5.0	mg/L							J
Bicarbonate as CaCO3	1.60	0.50	5.0	"							J
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2505999-DUP1)			**Source: 25G0792-01**		Prepared & Analyzed: 07/17/25						
Total Alkalinity	1.80	1.0	5.0	mg/L		1.80			0	20	J
Bicarbonate as CaCO3	1.80	0.50	5.0	"		1.80			0	20	J
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Batch 2506014 - General Preparation											
Blank (2506014-BLK1)					Prepared & Analyzed: 07/17/25						
Ammonia as N	ND	0.025	0.10	mg/L							

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506014 - General Preparation											
LCS (2506014-BS1)					Prepared & Analyzed: 07/17/25						
Ammonia as N	0.434	0.025	0.10	mg/L	0.500		87	80-120			
LCS Dup (2506014-BSD1)					Prepared & Analyzed: 07/17/25						
Ammonia as N	0.427	0.025	0.10	mg/L	0.500		85	80-120	2	25	
Matrix Spike (2506014-MS1)			**Source: 25G0753-02**		Prepared & Analyzed: 07/17/25						
Ammonia as N	0.764	0.025	0.10	mg/L	0.500	0.430	67	75-125			QM-7
Matrix Spike Dup (2506014-MSD1)			**Source: 25G0753-02**		Prepared & Analyzed: 07/17/25						
Ammonia as N	0.787	0.025	0.10	mg/L	0.500	0.430	71	75-125	3	25	QM-7
Batch 2506038 - General Preparation											
Blank (2506038-BLK1)					Prepared: 07/18/25 Analyzed: 07/21/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							
LCS (2506038-BS1)					Prepared: 07/18/25 Analyzed: 07/21/25						
Total Suspended Solids	90.8	2.5	2.5	mg/L	100		91	80-120			
LCS Dup (2506038-BSD1)					Prepared: 07/18/25 Analyzed: 07/21/25						
Total Suspended Solids	102	2.5	2.5	mg/L	100		102	80-120	12	200	
Duplicate (2506038-DUP1)			**Source: 25G0873-01**		Prepared: 07/18/25 Analyzed: 07/21/25						
Total Suspended Solids	940	130	130	mg/L		920			2	20	
Batch 2506044 - General Preparation											
Blank (2506044-BLK1)					Prepared: 07/18/25 Analyzed: 07/22/25						
Total Dissolved Solids	ND	5.0	10	mg/L							

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506044 - General Preparation											
LCS (2506044-BS1)					Prepared: 07/18/25 Analyzed: 07/22/25						
Total Dissolved Solids	49.0	5.0	10	mg/L	50.0		98	80-120			
LCS Dup (2506044-BSD1)					Prepared: 07/18/25 Analyzed: 07/22/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120	4	200	
Duplicate (2506044-DUP1)			**Source: 25G0950-01**		Prepared: 07/18/25 Analyzed: 07/22/25						
Total Dissolved Solids	ND	5.0	10	mg/L		ND				20	
Batch 2506049 - General Preparation											
Blank (2506049-BLK1)					Prepared & Analyzed: 07/18/25						
Total Kjeldahl Nitrogen	0.0540	0.040	0.20	mg/L							J
LCS (2506049-BS1)					Prepared & Analyzed: 07/18/25						
Total Kjeldahl Nitrogen	0.532	0.040	0.20	mg/L	0.500		106	80-120			
LCS Dup (2506049-BSD1)					Prepared & Analyzed: 07/18/25						
Total Kjeldahl Nitrogen	0.518	0.040	0.20	mg/L	0.500		104	80-120	3	20	
Matrix Spike (2506049-MS1)			**Source: 25G0950-01**		Prepared & Analyzed: 07/18/25						
Total Kjeldahl Nitrogen	0.615	0.040	0.20	mg/L	0.500	0.151	93	75-125			
Matrix Spike Dup (2506049-MSD1)			**Source: 25G0950-01**		Prepared & Analyzed: 07/18/25						
Total Kjeldahl Nitrogen	0.556	0.040	0.20	mg/L	0.500	0.151	81	75-125	10	25	
Batch 2506078 - General Preparation											
Blank (2506078-BLK1)					Prepared & Analyzed: 07/21/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506078 - General Preparation											
LCS (2506078-BS1)					Prepared & Analyzed: 07/21/25						
Total Organic Carbon	8.42	0.54	1.0	mg/L	10.0		84	75-125			
Total Organic Carbon, Dissolved	8.42	0.54	1.0	"	10.0		84	75-125			
LCS Dup (2506078-BSD1)					Prepared & Analyzed: 07/21/25						
Total Organic Carbon	8.36	0.54	1.0	mg/L	10.0		84	75-125	0.7	25	
Total Organic Carbon, Dissolved	8.36	0.54	1.0	"	10.0		84	75-125	0.7	25	
Matrix Spike (2506078-MS1)			**Source: 25G1021-01**		Prepared: 07/21/25 Analyzed: 07/22/25						
Total Organic Carbon	22.2	0.54	1.0	mg/L	10.0	26.9	NR	75-125			QM-7
Total Organic Carbon, Dissolved	22.2	0.54	1.0	"	10.0	26.9	NR	75-125			QM-7
Matrix Spike Dup (2506078-MSD1)			**Source: 25G1021-01**		Prepared: 07/21/25 Analyzed: 07/22/25						
Total Organic Carbon	20.0	0.54	1.0	mg/L	10.0	26.9	NR	75-125	11	25	QM-7
Total Organic Carbon, Dissolved	20.0	0.54	1.0	"	10.0	26.9	NR	75-125	11	30	QM-7
Batch 2506092 - General Preparation											
Blank (2506092-BLK1)					Prepared & Analyzed: 07/22/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2506092-BS1)					Prepared & Analyzed: 07/22/25						
Total Phosphorus as P	0.353	0.023	0.050	mg/L	0.300		118	80-120			
LCS Dup (2506092-BSD1)					Prepared & Analyzed: 07/22/25						
Total Phosphorus as P	0.333	0.023	0.050	mg/L	0.300		111	80-120	6	25	
Matrix Spike (2506092-MS1)			**Source: 25G0950-01**		Prepared & Analyzed: 07/22/25						
Total Phosphorus as P	0.340	0.023	0.050	mg/L	0.300	ND	113	75-125			

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506092 - General Preparation											
Matrix Spike Dup (2506092-MSD1)			**Source: 25G0950-01**		Prepared & Analyzed: 07/22/25						
Total Phosphorus as P	0.348	0.023	0.050	mg/L	0.300	ND	116	75-125	2	30	

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2505985 - EPA 200 Series											
Blank (2505985-BLK1)					Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	ND	0.043	1.0	"							
Barium	ND	1.6	20	µg/L							
Potassium	0.146	0.13	1.0	mg/L							J
Sodium	0.125	0.029	1.0	"							J
LCS (2505985-BS1)					Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	5.27	0.044	1.0	mg/L	5.00		105	85-115			
Magnesium	5.14	0.043	1.0	"	5.00		103	85-115			
Barium	546	1.6	20	µg/L	500		109	85-115			
Potassium	5.49	0.13	1.0	mg/L	5.00		110	85-115			
Sodium	5.17	0.029	1.0	"	5.00		103	85-115			
Matrix Spike (2505985-MS1)				**Source: 25G0809-02**	Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	6.73	0.044	1.0	mg/L	5.00	2.41	86	70-130			
Magnesium	5.02	0.043	1.0	"	5.00	0.559	89	70-130			
Barium	501	1.6	20	µg/L	500	8.79	99	70-130			
Potassium	5.31	0.13	1.0	mg/L	5.00	0.733	92	70-130			
Sodium	7.81	0.029	1.0	"	5.00	3.56	85	70-130			
Matrix Spike (2505985-MS2)				**Source: 25G0951-03**	Prepared: 07/17/25 Analyzed: 07/21/25						
Calcium	4.33	0.044	1.0	mg/L	5.00	7.24	NR	70-130			QM-7
Barium	302	1.6	20	µg/L	500	4.04	60	70-130			QM-7
Magnesium	1.73	0.043	1.0	mg/L	5.00	0.354	28	70-130			QM-7
Potassium	1.34	0.13	1.0	"	5.00	0.652	14	70-130			QM-7
Sodium	2.11	0.029	1.0	"	5.00	1.23	18	70-130			QM-7

07/24/25 12:54

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25G0950
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506021 - EPA 200 Series											
Blank (2506021-BLK1)					Prepared & Analyzed: 07/18/25						
Antimony	ND	0.34	6.0	µg/L							
Arsenic	ND	0.45	2.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	ND	0.14	1.0	"							
Cobalt	ND	0.060	2.0	"							
Copper	0.378	0.090	2.0	"							J
Lead	0.0460	0.020	5.0	"							J
Molybdenum	0.293	0.11	2.0	"							J
Nickel	ND	0.13	2.0	"							
Selenium	ND	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	0.136	0.030	1.0	"							J
Vanadium	ND	0.070	3.0	"							
Zinc	3.00	0.27	10	"							J
LCS (2506021-BS1)					Prepared & Analyzed: 07/18/25						
Antimony	108	0.34	6.0	µg/L	100		108	85-115			
Arsenic	101	0.45	2.0	"	100		101	85-115			
Beryllium	109	0.31	1.0	"	100		109	85-115			
Cadmium	104	0.17	0.50	"	100		104	85-115			
Chromium	101	0.14	1.0	"	100		101	85-115			
Cobalt	98.1	0.060	2.0	"	100		98	85-115			
Copper	102	0.090	2.0	"	100		102	85-115			
Lead	104	0.020	5.0	"	100		104	85-115			
Molybdenum	104	0.11	2.0	"	100		104	85-115			
Nickel	98.3	0.13	2.0	"	100		98	85-115			
Selenium	104	0.75	5.0	"	100		104	85-115			
Silver	103	0.070	0.50	"	100		103	85-115			
Thallium	99.9	0.030	1.0	"	100		100	85-115			
Vanadium	99.3	0.070	3.0	"	100		99	85-115			
Zinc	104	0.27	10	"	100		104	85-115			

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506021 - EPA 200 Series											
Matrix Spike (2506021-MS1)			**Source: 25G0940-04**	Prepared & Analyzed: 07/18/25							
Antimony	105	0.34	6.0	µg/L	100	ND	105	70-130			
Arsenic	100	0.45	2.0	"	100	ND	100	70-130			
Beryllium	109	0.31	1.0	"	100	ND	109	70-130			
Cadmium	104	0.17	0.50	"	100	ND	104	70-130			
Chromium	98.8	0.14	1.0	"	100	ND	99	70-130			
Cobalt	98.2	0.060	2.0	"	100	ND	98	70-130			
Copper	103	0.090	2.0	"	100	0.453	103	70-130			
Lead	104	0.020	5.0	"	100	0.0460	104	70-130			
Molybdenum	103	0.11	2.0	"	100	0.248	103	70-130			
Nickel	100	0.13	2.0	"	100	0.417	100	70-130			
Selenium	100	0.75	5.0	"	100	ND	100	70-130			
Silver	102	0.070	0.50	"	100	ND	102	70-130			
Thallium	101	0.030	1.0	"	100	0.0870	101	70-130			
Vanadium	98.9	0.070	3.0	"	100	ND	99	70-130			
Zinc	650	0.27	10	"	100	568	82	70-130			
Matrix Spike (2506021-MS2)			**Source: 25G0978-01**	Prepared & Analyzed: 07/18/25							
Antimony	103	0.34	6.0	µg/L	100	ND	103	70-130			
Arsenic	119	0.45	2.0	"	100	18.7	101	70-130			
Beryllium	109	0.31	1.0	"	100	ND	109	70-130			
Cadmium	103	0.17	0.50	"	100	ND	103	70-130			
Chromium	98.6	0.14	1.0	"	100	0.376	98	70-130			
Cobalt	96.5	0.060	2.0	"	100	0.301	96	70-130			
Copper	122	0.090	2.0	"	100	24.0	98	70-130			
Lead	102	0.020	5.0	"	100	0.335	102	70-130			
Molybdenum	114	0.11	2.0	"	100	9.56	104	70-130			
Nickel	97.5	0.13	2.0	"	100	ND	97	70-130			
Selenium	102	0.75	5.0	"	100	ND	102	70-130			
Silver	100	0.070	0.50	"	100	ND	100	70-130			
Thallium	101	0.030	1.0	"	100	ND	101	70-130			
Vanadium	101	0.070	3.0	"	100	0.246	100	70-130			
Zinc	148	0.27	10	"	100	51.7	96	70-130			

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506021 - EPA 200 Series											
Batch 2506039 - EPA 7470A											
Blank (2506039-BLK1)					Prepared: 07/18/25 Analyzed: 07/21/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2506039-BS1)					Prepared: 07/18/25 Analyzed: 07/21/25						
Mercury	5.09	0.15	0.20	µg/L	5.00		102	85-115			
Matrix Spike (2506039-MS1)			**Source: 25G1031-01**		Prepared: 07/18/25 Analyzed: 07/21/25						
Mercury	4.90	0.15	0.20	µg/L	5.00	ND	98	70-130			
Matrix Spike (2506039-MS2)			**Source: 25G1061-04**		Prepared: 07/18/25 Analyzed: 07/21/25						
Mercury	4.39	0.15	0.20	µg/L	5.00	ND	88	70-130			
Matrix Spike Dup (2506039-MSD1)			**Source: 25G1031-01**		Prepared: 07/18/25 Analyzed: 07/21/25						
Mercury	5.10	0.15	0.20	µg/L	5.00	ND	102	70-130	4	25	

07/24/25 12:54

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25G0950**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 2560950 (__ of __)

Report To:

Company: Stillwater Sciences

Address: 279 Cousteau Pl #400
Davis, CA 95618

Project Manager: Christina Buck, Elliott Allen

Email: cbuck@stillwatersci.com, eallen@stillwatersci.com

Project Name: Lundy WQ-1, 1017.00

Sampled By: Michael Schweiker

Job Description:

Site Location:

Client Job Number

Destination Laboratory

CALIFORNIA LABORATORY SERVICES
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□ CLS (916) 638-7301
3249 Fitzgerald Road
Roncho Cordova, CA 95742
www.californialab.com

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #: _____

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID: _____

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Chlorophyll-a	[redacted]	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
7/15/25	17:00	Field Blank		Water	13		125	X	X	X	X	X	X	X					X	Metals: Sb, As, Ba,
"	17:20	~~MCBR-2~~ WQ-MCBR-5		"	13		"	"	"	"	"	"	"	"					"	Be, Cd, Cr, Co, Cu,
"	17:30	WQ-MCBR-5-DUP		"	13		"	"	"	"	"	"	"	"					"	Pb, Hg, Mo, Ni, Se,
"	18:30	WQ-MCRD-6		"	13		"	"	"	"	"	"	"	"					"	Ag, Tl, V, Zn, Ca,
"	18:45	WQ-~~MC~~LMC-7		"	13		"	"	"	"	"	"	"	"					"	Mg, K, Na
																				INVOICE TO:
																				PO#
																				QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	Michael Schweiker/SWS	7/16/25 13:06		

RECEIVED AT LAB BY: [signature] DATE/TIME: 7/16/25 1326 CONDITIONS/COMMENTS: 1.4/2.0

SHIPPED BY: □ FED EX □ UPS □ OTHER _____ AIR BILL # _____

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2507A34

Report Created for: CLS Labs

3249 Fitzgerald Road
Rancho Cordova, CA 95742

Project Contact: CLS Sub email
Project P.O.:
Project: 25G0950

Project Location:
Project Received: 07/17/2025

Analytical Report reviewed & approved for release on 07/24/2025 by:

Yen Cao

Yen Cao
Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2507A34

Project: 25G0950

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2507A34

Project: 25G0950

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	CLS Labs	**WorkOrder:**	2507A34
Date Received:	07/17/2025 13:20	**Extraction Method:**	SM10200 Part 4
Date Prepared:	07/17/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25G0950	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Field Blank	2507A34-001A	Water	07/15/2025 17:00	HPLC5 072125000006.D	321651

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	07/22/2025 00:44

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5	2507A34-002A	Water	07/15/2025 17:20	HPLC5 072125000007.D	321651

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	07/22/2025 01:46

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5-DUP	2507A34-003A	Water	07/15/2025 17:30	HPLC5 072125000008.D	321651

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	07/22/2025 02:47

Analyst(s): HAD

(Cont.)

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Analytical Report

Client:	CLS Labs	**WorkOrder:**	2507A34
Date Received:	07/17/2025 13:20	**Extraction Method:**	SM10200 Part 4
Date Prepared:	07/17/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25G0950	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCRD-6	2507A34-004A	Water	07/15/2025 18:30	HPLC5 072125000010.D	321651

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	07/22/2025 04:50

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-7	2507A34-005A	Water	07/15/2025 18:45	HPLC5 072125000011.D	321651

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	07/22/2025 05:51

Analyst(s): HAD

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Quality Control Report

Client:	CLS Labs	**WorkOrder:**	2507A34
Date Prepared:	07/17/2025	**BatchID:**	321651
Date Analyzed:	07/21/2025 - 07/22/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	25G0950	**Sample ID:**	MB/LCS/LCSD-321651 2507A34-003A

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	65	64	50	130	127	70-130	1.90	20

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
Chlorophyll a	ND	ND	N/A	-

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2507A34 **ClientCode: CLSR** **QuoteID: 252687**

☐ WaterTrax ☐ CLIP ☐ EDF ☒ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☒ Detection Summary ☐ Excel

Report to:
CLS Sub email
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
916-638-7301 FAX: (916) 638-4510

Email: sub@californialab.com
cc/3rd Party:
PO:
Project: 25G0950

Bill to:
Accounts Payable
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Requested TAT: **5 days;**

Date Received: **07/17/2025**
Date Logged: **07/17/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2507A34-001	Field Blank	Water	7/15/2025 17:00	☐	A	A										
2507A34-002	WQ-MCBR-5	Water	7/15/2025 17:20	☐	A	A										
2507A34-003	WQ-MCBR-5-DUP	Water	7/15/2025 17:30	☐	A	A										
2507A34-004	WQ-MCRD-6	Water	7/15/2025 18:30	☐	A	A										
2507A34-005	WQ-LMC-7	Water	7/15/2025 18:45	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Yen Cao

Prepared by: Valerie Alfaro

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25G0950

Comments MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2507A34
QC Level: LEVEL 2
Date Logged: 7/17/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ■ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ■ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Field Blank	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	7/15/2025 17:00	5 days	7/24/2025	None	☐	☐
002A	WQ-MCBR-5	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	7/15/2025 17:20	5 days	7/24/2025		☐	☐
003A	MCBR-5-DUP	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	7/15/2025 17:30	5 days	7/24/2025		☐	☐
004A	WQ-MCRD-6	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	7/15/2025 18:30	5 days	7/24/2025		☐	☐
005A	WQ-LMC-7	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	7/15/2025 18:45	5 days	7/24/2025		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

2507A34

SUBCONTRACT ORDER

25G0950

Quote ID 252687

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Client Services
Project: Lundy WQ-1, 1017.00

RECEIVING LABORATORY:

McCampbell Analytical Inc.
1534 Willow Pass Road
Pittsburg, CA 94565-1701
Phone :(925) 252-9262
Fax: (925) 252-9269

Short hold.

CC: callen@stillwaterset.com

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	10	07/31/25 15:00	07/17/25 17:00	25G0950-01	07/15/25 17:00	07/16/25 13:06	Water

Client sample ID: Field Blank **Sampler:**
Laboratory sample ID: 25G0950-01
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	10	07/31/25 15:00	07/17/25 17:20	25G0950-02	07/15/25 17:20	07/16/25 13:06	Water

Client sample ID: WQ - MCBR - 5 **Sampler:**
Laboratory sample ID: 25G0950-02
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	10	07/31/25 15:00	07/17/25 17:30	25G0950-03	07/15/25 17:30	07/16/25 13:06	Water

Client sample ID: WQ - MCBR - 5 - DUP **Sampler:**
Laboratory sample ID: 25G0950-03
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

[signature]	07/17/25	[signature]	7/17/25	1000
Relinquished By	Date	Received By	Date	
[signature]	7/17/25	1320	[signature]	7/17/25 1320
Relinquished By	Date		Received By	Date
URS				
Shipped By	Airbill Number			

Page 1 of 2

0.5°C wet ice

2507A34

SUBCONTRACT ORDER

25G0950

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	10	07/31/25 15:00	07/17/25 18:30	25G0950-04	07/15/25 18:30	07/16/25 13:06	Water

Client sample ID: WQ - MCRD - 6 **Sampler:**
Laboratory sample ID: 25G0950-04
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	10	07/31/25 15:00	07/17/25 18:45	25G0950-05	07/15/25 18:45	07/16/25 13:06	Water

Client sample ID: WQ - LMC - 7 **Sampler:**
Laboratory sample ID: 25G0950-05
Please use client sample ID on all reports

Containers Supplied:
1L Amber- Unpres. (D)

[signature]	07/17/25	PP	7/17/25 1000
Relinquished By	Date	Received By	Date
PP	7/17/25 1320	[signature]	7/17/25 1320
Relinquished By	Date	Received By	Date
UPS			
Shipped By	Airbill Number		**Page 2 of 2**

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Sample Receipt Checklist

Client Name: CLS Labs
Project: 25G0950

Date and Time Received: 7/17/2025 13:20
Date Logged: 7/17/2025
Received by: Valerie Alfaro
Logged by: Valerie Alfaro

WorkOrder №: 2507A34 Matrix: Water
Carrier: Patrick Johnson (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☑	No ☐	NA ☐
COC quote NOT expired?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
(Ice Type: WET ICE)			
Sample/Temp Blank temperature	Temp: 0.5°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2)?	Yes ☐	No ☐	NA ☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☑

Comments:

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

August 26, 2025

CLS Work Order #: 25H0964
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 13:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

08/26/25 13:59

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H0964
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3-eDNA (25H0964-01) Water	**Sampled: 08/18/25 18:00**		**Received: 08/19/25 13:35**							
Bicarbonate as CaCO3	**17**	0.50	5.0	mg/L	1	2506995	08/20/25	08/20/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**17**	1.0	5.0	"	"	"	"	"	"	
WT-LL-12-eDNA (25H0964-02) Water	**Sampled: 08/18/25 19:40**		**Received: 08/19/25 13:35**							
Bicarbonate as CaCO3	**15**	0.50	5.0	mg/L	1	2506995	08/20/25	08/20/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**15**	1.0	5.0	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES
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08/26/25 13:59

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0964**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3-eDNA (25H0964-01) Water	**Sampled: 08/18/25 18:00**		**Received: 08/19/25 13:35**							
Calcium	**9.7**	0.014	1.0	mg/L	1	2506987	08/20/25	08/20/25	EPA 200.7	
WT-LL-12-eDNA (25H0964-02) Water	**Sampled: 08/18/25 19:40**		**Received: 08/19/25 13:35**							
Calcium	**10**	0.014	1.0	mg/L	1	2506987	08/20/25	08/20/25	EPA 200.7	

08/26/25 13:59

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0964**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506995 - General Preparation											
Blank (2506995-BLK1)					Prepared & Analyzed: 08/20/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2506995-DUP1)					**Source: 25H0903-01** Prepared & Analyzed: 08/20/25						
Total Alkalinity	15.6	1.0	5.0	mg/L		16.2			4	20	
Bicarbonate as CaCO3	15.6	0.50	5.0	"		16.2			4	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	

08/26/25 13:59

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0964**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506987 - EPA 200 Series											
Blank (2506987-BLK1)					Prepared & Analyzed: 08/20/25						
Calcium	ND	0.014	1.0	mg/L							
LCS (2506987-BS1)					Prepared & Analyzed: 08/20/25						
Calcium	5.19	0.014	1.0	mg/L	5.00		104	85-115			
Matrix Spike (2506987-MS1)			**Source: 25H0905-01**		Prepared & Analyzed: 08/20/25						
Calcium	14.6	0.014	1.0	mg/L	5.00	9.09	111	70-130			
Matrix Spike (2506987-MS2)			**Source: 25H0993-01**		Prepared & Analyzed: 08/20/25						
Calcium	39.9	0.014	1.0	mg/L	5.00	35.9	81	70-130			

08/26/25 13:59

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0964**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 25H0964 (of)

Report To:	Client Job Number	ANALYSIS REQUESTED	STATE UPLOAD ☐ YES ☐ NO
Company: Stillwater Sciences			STATE SYSTEM #:
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory		GEOTRACKER EDF REPORT ☐ YES ☐ NO
Project Manager: Christina Buck, Elliott Allen			GLOBAL ID:
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible.		FIELD CONDITIONS:
Project Name: Lundy WQ-1, 1017.00	☐ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com		
Sampled By: Michael Schweiker			
Job Description:			
Site Location:			

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID:	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives →	Calcium	Alkalinity	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
8118	18:00	WQ-LL-3-eDNA		Water	2			X	X				X	
8118	19:40	WT-LL-12-eDNA		Water	2			X	X				X	
														INVOICE TO:
														PO#
														QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Stillwater Sciences	8/19/25 1335		

RECEIVED AT LAB BY: DATE/TIME: 08/19/25 1335 CONDITIONS/COMMENTS: 4.6 / 5.2 to 6

SHIPPED BY: ☐ FED EX ☐ UPS ☐ OTHER AIR BILL #

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

August 27, 2025

CLS Work Order #: 25H0987
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 13:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

08/27/25 16:10

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H0987
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (25H0987-01) Water	**Sampled: 08/18/25 16:30**		**Received: 08/19/25 13:35**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**3.4**	0.50	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	J
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.33**	0.026	0.50	"	"	2506984	08/20/25	08/20/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Nitrate as N	**0.056**	0.053	0.40	"	"	2506984	08/20/25	08/20/25	EPA 300.0	J
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2506982	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	ND	0.038	0.50	"	"	2506984	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**3.4**	1.0	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	J
Total Dissolved Solids	**20**	5.0	10	"	"	2507000	08/20/25	08/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.085**	0.040	0.20	"	"	2507030	08/20/25	08/20/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2506985	08/20/25	08/20/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507053	08/21/25	08/25/25	SM2540D	
WQ-LL-3-Surf. (25H0987-02) Water	**Sampled: 08/18/25 16:45**		**Received: 08/19/25 13:35**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.40**	0.026	0.50	"	"	2506984	08/20/25	08/20/25	EPA 300.0	J
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	"	"	2507102	08/22/25	08/25/25	EPA 1664B	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2506984	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2506982	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**13**	0.038	0.50	"	"	2506984	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**17**	1.0	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Total Dissolved Solids	**51**	5.0	10	"	"	2507000	08/20/25	08/22/25	SM2540C	

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3-Surf. (25H0987-02) Water	**Sampled: 08/18/25 16:45**		**Received: 08/19/25 13:35**							
Total Kjeldahl Nitrogen	**0.15**	0.040	0.20	mg/L	1	2507030	08/20/25	08/20/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2506985	08/20/25	08/20/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507053	08/21/25	08/25/25	SM2540D	
WQ-LL-3-Bot (25H0987-03) Water	**Sampled: 08/18/25 17:00**		**Received: 08/19/25 13:35**							
Ammonia as N	**0.045**	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**16**	0.50	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.42**	0.026	0.50	"	"	2506984	08/20/25	08/20/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Nitrate as N	**0.063**	0.053	0.40	"	"	2506984	08/20/25	08/20/25	EPA 300.0	J
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2506982	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**11**	0.038	0.50	"	"	2506984	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**16**	1.0	5.0	"	"	2506995	08/20/25	08/20/25	SM2320B	
Total Dissolved Solids	**49**	5.0	10	"	"	2507000	08/20/25	08/22/25	SM2540C	
Total Kjeldahl Nitrogen	**0.092**	0.040	0.20	"	"	2507030	08/20/25	08/20/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2506985	08/20/25	08/20/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507053	08/21/25	08/25/25	SM2540D	

08/27/25 16:10

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H0987
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (25H0987-01) Water	**Sampled: 08/18/25 16:30**		**Received: 08/19/25 13:35**							
Antimony	ND	0.34	6.0	µg/L	1	2506989	08/20/25	08/21/25	EPA 200.8	
Arsenic	ND	0.45	2.0	"	"	"	"	"	"	
Barium	ND	1.6	20	"	"	2506987	08/20/25	08/20/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2506989	08/20/25	08/21/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	ND	0.044	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Chromium	**0.97**	0.14	1.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	ND	0.043	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2506990	08/20/25	08/21/25	EPA 245.1	
Molybdenum	ND	0.11	2.0	"	"	2506989	08/20/25	08/21/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	ND	0.029	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.67**	0.27	10	"	"	"	"	"	"	J
WQ-LL-3-Surf. (25H0987-02) Water	**Sampled: 08/18/25 16:45**		**Received: 08/19/25 13:35**							
Antimony	ND	0.34	6.0	µg/L	1	2506989	08/20/25	08/21/25	EPA 200.8	
Arsenic	**5.0**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.7**	1.6	20	"	"	2506987	08/20/25	08/20/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2506989	08/20/25	08/21/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Chromium	**6.3**	0.14	1.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3-Surf. (25H0987-02) Water	**Sampled: 08/18/25 16:45**		**Received: 08/19/25 13:35**							
Copper	**0.39**	0.090	2.0	µg/L	1	2506989	"	08/21/25	EPA 200.8	J
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.43**	0.043	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2506990	08/20/25	08/21/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2506989	08/20/25	08/21/25	EPA 200.8	
Nickel	**2.2**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.78**	0.13	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	J
Selenium	ND	0.75	5.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.5**	0.029	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**2.6**	0.27	10	"	"	"	"	"	"	J
WQ-LL-3-Bot (25H0987-03) Water	**Sampled: 08/18/25 17:00**		**Received: 08/19/25 13:35**							
Antimony	**0.67**	0.34	6.0	µg/L	1	2506989	08/20/25	08/21/25	EPA 200.8	J
Arsenic	**3.6**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.2**	1.6	20	"	"	2506987	08/20/25	08/20/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2506989	08/20/25	08/21/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.7**	0.044	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Chromium	**1.2**	0.14	1.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Cobalt	**0.11**	0.060	2.0	"	"	"	"	"	"	J
Copper	**0.49**	0.090	2.0	"	"	"	"	"	"	J
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.40**	0.043	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2506990	08/20/25	08/21/25	EPA 245.1	
Molybdenum	**1.0**	0.11	2.0	"	"	2506989	08/20/25	08/21/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.75**	0.13	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	J
Selenium	ND	0.75	5.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3-Bot (25H0987-03) Water	**Sampled: 08/18/25 17:00**		**Received: 08/19/25 13:35**							
Silver	ND	0.070	0.50	µg/L	1	2506989	"	08/21/25	EPA 200.8	
Sodium	**1.3**	0.029	1.0	mg/L	"	2506987	08/20/25	08/20/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2506989	08/20/25	08/21/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**3.8**	0.27	10	"	"	"	"	"	"	J

08/27/25 16:10

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H0987
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506982 - General Preparation											
Blank (2506982-BLK1)					Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							
LCS (2506982-BS1)					Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	0.898	0.0051	0.15	mg/L	0.918		98	80-120			
LCS Dup (2506982-BSD1)					Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	0.890	0.0051	0.15	mg/L	0.918		97	80-120	1	20	
Matrix Spike (2506982-MS1)			**Source: 25H0984-01**		Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	1.81	0.0051	0.15	mg/L	0.918	0.929	96	75-125			
Matrix Spike Dup (2506982-MSD1)			**Source: 25H0984-01**		Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	1.80	0.0051	0.15	mg/L	0.918	0.929	95	75-125	0.5	25	
Batch 2506984 - General Prep											
Blank (2506984-BLK1)					Prepared & Analyzed: 08/20/25						
Sulfate as SO4	ND	0.038	0.50	mg/L							
Chloride	ND	0.026	0.50	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2506984-BS1)					Prepared & Analyzed: 08/20/25						
Sulfate as SO4	4.97	0.038	0.50	mg/L	5.00		99	80-120			
Chloride	4.80	0.026	0.50	"	5.00		96	80-120			
Nitrate as N	1.92	0.053	0.40	"	2.00		96	80-120			
LCS Dup (2506984-BSD1)					Prepared & Analyzed: 08/20/25						
Sulfate as SO4	4.99	0.038	0.50	mg/L	5.00		100	80-120	0.3	20	
Chloride	4.81	0.026	0.50	"	5.00		96	80-120	0.1	20	
Nitrate as N	1.93	0.053	0.40	"	2.00		96	80-120	0.3	20	

08/27/25 16:10

Stillwater Sciences
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Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H0987
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506984 - General Prep											
Matrix Spike (2506984-MS1)			**Source: 25H0998-03**		Prepared & Analyzed: 08/20/25						
Sulfate as SO4	22.1	0.038	0.50	mg/L	5.00	17.4	94	80-120			
Chloride	44.2	0.026	0.50	"	5.00	41.4	57	80-120			QM-7
Nitrate as N	3.72	0.053	0.40	"	2.00	1.79	97	80-120			
Matrix Spike Dup (2506984-MSD1)			**Source: 25H0998-03**		Prepared & Analyzed: 08/20/25						
Sulfate as SO4	22.2	0.038	0.50	mg/L	5.00	17.4	96	80-120	0.4	20	
Chloride	44.3	0.026	0.50	"	5.00	41.4	59	80-120	0.2	20	QM-7
Nitrate as N	3.76	0.053	0.40	"	2.00	1.79	98	80-120	0.9	20	
Batch 2506985 - General Preparation											
Blank (2506985-BLK1)					Prepared & Analyzed: 08/20/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							
LCS (2506985-BS1)					Prepared & Analyzed: 08/20/25						
Total Organic Carbon	9.27	0.54	1.0	mg/L	10.0		93	75-125			
Total Organic Carbon, Dissolved	9.27	0.54	1.0	"	10.0		93	75-125			
LCS Dup (2506985-BSD1)					Prepared & Analyzed: 08/20/25						
Total Organic Carbon	8.98	0.54	1.0	mg/L	10.0		90	75-125	3	25	
Total Organic Carbon, Dissolved	8.98	0.54	1.0	"	10.0		90	75-125	3	25	
Matrix Spike (2506985-MS1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/20/25						
Total Organic Carbon	9.16	0.54	1.0	mg/L	10.0	ND	92	75-125			
Total Organic Carbon, Dissolved	9.16	0.54	1.0	"	10.0	ND	92	75-125			

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506985 - General Preparation											
Matrix Spike Dup (2506985-MSD1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/20/25						
Total Organic Carbon	9.87	0.54	1.0	mg/L	10.0	ND	99	75-125	7	25	
Total Organic Carbon, Dissolved	9.87	0.54	1.0	"	10.0	ND	99	75-125	7	30	
Batch 2506995 - General Preparation											
Blank (2506995-BLK1)					Prepared & Analyzed: 08/20/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2506995-DUP1)			**Source: 25H0903-01**		Prepared & Analyzed: 08/20/25						
Total Alkalinity	15.6	1.0	5.0	mg/L		16.2			4	20	
Bicarbonate as CaCO3	15.6	0.50	5.0	"		16.2			4	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Batch 2507000 - General Preparation											
Blank (2507000-BLK1)					Prepared: 08/20/25 Analyzed: 08/22/25						
Total Dissolved Solids	ND	5.0	10	mg/L							
LCS (2507000-BS1)					Prepared: 08/20/25 Analyzed: 08/22/25						
Total Dissolved Solids	48.0	5.0	10	mg/L	50.0		96	80-120			
LCS Dup (2507000-BSD1)					Prepared: 08/20/25 Analyzed: 08/22/25						
Total Dissolved Solids	49.0	5.0	10	mg/L	50.0		98	80-120	2	200	

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507000 - General Preparation											
Duplicate (2507000-DUP1)			**Source: 25H0947-02**		Prepared: 08/20/25 Analyzed: 08/22/25						
Total Dissolved Solids	261	5.0	10	mg/L		259			0.8	20	
Batch 2507030 - General Preparation											
Blank (2507030-BLK1)					Prepared & Analyzed: 08/20/25						
Total Kjeldahl Nitrogen	ND	0.040	0.20	mg/L							
LCS (2507030-BS1)					Prepared & Analyzed: 08/20/25						
Total Kjeldahl Nitrogen	0.435	0.040	0.20	mg/L	0.500		87	80-120			
LCS Dup (2507030-BSD1)					Prepared & Analyzed: 08/20/25						
Total Kjeldahl Nitrogen	0.468	0.040	0.20	mg/L	0.500		94	80-120	7	20	
Matrix Spike (2507030-MS1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/20/25						
Total Kjeldahl Nitrogen	0.274	0.040	0.20	mg/L	0.500	0.0850	38	75-125			QM-7
Matrix Spike Dup (2507030-MSD1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/20/25						
Total Kjeldahl Nitrogen	0.249	0.040	0.20	mg/L	0.500	0.0850	33	75-125	10	25	QM-7
Batch 2507035 - General Preparation											
Blank (2507035-BLK1)					Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2507035-BS1)					Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.317	0.023	0.050	mg/L	0.300		106	80-120			

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507035 - General Preparation											
LCS Dup (2507035-BSD1)					Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.304	0.023	0.050	mg/L	0.300		101	80-120	4	25	
Matrix Spike (2507035-MS1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.325	0.023	0.050	mg/L	0.300	ND	108	75-125			
Matrix Spike Dup (2507035-MSD1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.322	0.023	0.050	mg/L	0.300	ND	107	75-125	1	30	
Batch 2507053 - General Preparation											
Blank (2507053-BLK1)					Prepared: 08/21/25 Analyzed: 08/25/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							
LCS (2507053-BS1)					Prepared: 08/21/25 Analyzed: 08/25/25						
Total Suspended Solids	100	2.5	2.5	mg/L	100		100	80-120			
LCS Dup (2507053-BSD1)					Prepared: 08/21/25 Analyzed: 08/25/25						
Total Suspended Solids	97.3	2.5	2.5	mg/L	100		97	80-120	3	200	
Duplicate (2507053-DUP1)			**Source: 25H0917-01**		Prepared: 08/21/25 Analyzed: 08/25/25						
Total Suspended Solids	378	42	42	mg/L		372			2	20	
Batch 2507102 - Solvent Extract											
Blank (2507102-BLK1)					Prepared: 08/22/25 Analyzed: 08/25/25						
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	mg/L							

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507102 - Solvent Extract											
LCS (2507102-BS1)					Prepared: 08/22/25 Analyzed: 08/25/25						
Hexane Extractable Material (HEM, Oil & Grease)	42.2	1.0	5.0	mg/L	40.0		106	78-114			
LCS Dup (2507102-BSD1)					Prepared: 08/22/25 Analyzed: 08/25/25						
Hexane Extractable Material (HEM, Oil & Grease)	43.0	1.0	5.0	mg/L	40.0		108	78-114	2	18	
Batch 2507116 - General Preparation											
Blank (2507116-BLK1)					Prepared & Analyzed: 08/22/25						
Ammonia as N	ND	0.025	0.10	mg/L							
LCS (2507116-BS1)					Prepared & Analyzed: 08/22/25						
Ammonia as N	0.470	0.025	0.10	mg/L	0.500		94	80-120			
LCS Dup (2507116-BSD1)					Prepared & Analyzed: 08/22/25						
Ammonia as N	0.473	0.025	0.10	mg/L	0.500		95	80-120	0.6	25	
Matrix Spike (2507116-MS1)			**Source: 25H1059-09**		Prepared & Analyzed: 08/22/25						
Ammonia as N	0.383	0.025	0.10	mg/L	0.500	0.0250	72	75-125			QM-7
Matrix Spike Dup (2507116-MSD1)			**Source: 25H1059-09**		Prepared & Analyzed: 08/22/25						
Ammonia as N	0.380	0.025	0.10	mg/L	0.500	0.0250	71	75-125	0.8	25	QM-7

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506987 - EPA 200 Series											
Blank (2506987-BLK1)					Prepared & Analyzed: 08/20/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	ND	0.043	1.0	"							
Barium	ND	1.6	20	µg/L							
Potassium	ND	0.13	1.0	mg/L							
Sodium	ND	0.029	1.0	"							
LCS (2506987-BS1)					Prepared & Analyzed: 08/20/25						
Calcium	5.19	0.044	1.0	mg/L	5.00		104	85-115			
Barium	516	1.6	20	µg/L	500		103	85-115			
Magnesium	5.23	0.043	1.0	mg/L	5.00		105	85-115			
Potassium	5.17	0.13	1.0	"	5.00		103	85-115			
Sodium	5.26	0.029	1.0	"	5.00		105	85-115			
Matrix Spike (2506987-MS1)			**Source: 25H0905-01**		Prepared & Analyzed: 08/20/25						
Calcium	14.6	0.044	1.0	mg/L	5.00	9.09	111	70-130			
Barium	531	1.6	20	µg/L	500	21.0	102	70-130			
Magnesium	9.63	0.043	1.0	mg/L	5.00	4.20	109	70-130			
Potassium	6.45	0.13	1.0	"	5.00	1.16	106	70-130			
Sodium	11.9	0.029	1.0	"	5.00	6.48	108	70-130			
Matrix Spike (2506987-MS2)			**Source: 25H0993-01**		Prepared & Analyzed: 08/20/25						
Calcium	39.9	0.044	1.0	mg/L	5.00	35.9	81	70-130			
Magnesium	21.4	0.043	1.0	"	5.00	17.0	89	70-130			
Barium	531	1.6	20	µg/L	500	22.4	102	70-130			
Potassium	6.11	0.13	1.0	mg/L	5.00	0.905	104	70-130			
Sodium	29.5	0.029	1.0	"	5.00	24.6	99	70-130			

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506989 - EPA 200 Series											
Blank (2506989-BLK1)					Prepared: 08/20/25 Analyzed: 08/21/25						
Antimony	ND	0.34	6.0	µg/L							
Arsenic	ND	0.45	2.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	ND	0.14	1.0	"							
Cobalt	ND	0.060	2.0	"							
Copper	ND	0.090	2.0	"							
Lead	ND	0.020	5.0	"							
Molybdenum	0.548	0.11	2.0	"							J
Nickel	ND	0.13	2.0	"							
Selenium	ND	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	ND	0.030	1.0	"							
Vanadium	ND	0.070	3.0	"							
Zinc	ND	0.27	10	"							
LCS (2506989-BS1)					Prepared: 08/20/25 Analyzed: 08/21/25						
Antimony	105	0.34	6.0	µg/L	100		105	85-115			
Arsenic	99.5	0.45	2.0	"	100		99	85-115			
Beryllium	100	0.31	1.0	"	100		100	85-115			
Cadmium	101	0.17	0.50	"	100		101	85-115			
Chromium	99.3	0.14	1.0	"	100		99	85-115			
Cobalt	98.8	0.060	2.0	"	100		99	85-115			
Copper	103	0.090	2.0	"	100		103	85-115			
Lead	101	0.020	5.0	"	100		101	85-115			
Molybdenum	101	0.11	2.0	"	100		101	85-115			
Nickel	102	0.13	2.0	"	100		102	85-115			
Selenium	103	0.75	5.0	"	100		103	85-115			
Silver	102	0.070	0.50	"	100		102	85-115			
Thallium	102	0.030	1.0	"	100		102	85-115			
Vanadium	100	0.070	3.0	"	100		100	85-115			
Zinc	102	0.27	10	"	100		102	85-115			

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506989 - EPA 200 Series											
Matrix Spike (2506989-MS1)			**Source: 25H0950-01**	Prepared: 08/20/25 Analyzed: 08/21/25							
Antimony	106	0.34	6.0	µg/L	100	ND	106	70-130			
Arsenic	99.8	0.45	2.0	"	100	1.87	98	70-130			
Beryllium	107	0.31	1.0	"	100	ND	107	70-130			
Cadmium	104	0.17	0.50	"	100	ND	104	70-130			
Chromium	103	0.14	1.0	"	100	5.10	98	70-130			
Cobalt	95.8	0.060	2.0	"	100	ND	96	70-130			
Copper	161	0.090	2.0	"	100	58.9	103	70-130			
Lead	103	0.020	5.0	"	100	ND	103	70-130			
Molybdenum	101	0.11	2.0	"	100	0.600	101	70-130			
Nickel	101	0.13	2.0	"	100	0.376	100	70-130			
Selenium	103	0.75	5.0	"	100	ND	103	70-130			
Silver	103	0.070	0.50	"	100	ND	103	70-130			
Thallium	103	0.030	1.0	"	100	0.0300	103	70-130			
Vanadium	112	0.070	3.0	"	100	11.6	100	70-130			
Zinc	247	0.27	10	"	100	142	105	70-130			
Matrix Spike (2506989-MS2)			**Source: 25H0967-01**	Prepared: 08/20/25 Analyzed: 08/21/25							
Antimony	109	0.34	6.0	µg/L	100	ND	109	70-130			
Arsenic	98.2	0.45	2.0	"	100	3.17	95	70-130			
Beryllium	96.8	0.31	1.0	"	100	ND	97	70-130			
Cadmium	102	0.17	0.50	"	100	ND	102	70-130			
Chromium	129	0.14	1.0	"	100	35.8	93	70-130			
Cobalt	92.4	0.060	2.0	"	100	0.538	92	70-130			
Copper	111	0.090	2.0	"	100	18.4	93	70-130			
Lead	102	0.020	5.0	"	100	ND	102	70-130			
Molybdenum	239	0.11	2.0	"	100	138	101	70-130			
Nickel	119	0.13	2.0	"	100	25.0	94	70-130			
Selenium	95.3	0.75	5.0	"	100	0.753	95	70-130			
Silver	97.4	0.070	0.50	"	100	ND	97	70-130			
Thallium	101	0.030	1.0	"	100	0.117	101	70-130			
Vanadium	108	0.070	3.0	"	100	10.2	98	70-130			
Zinc	116	0.27	10	"	100	18.4	98	70-130			

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2506989 - EPA 200 Series											
Batch 2506990 - EPA 7470A											
Blank (2506990-BLK1)					Prepared: 08/20/25 Analyzed: 08/21/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2506990-BS1)					Prepared: 08/20/25 Analyzed: 08/21/25						
Mercury	5.03	0.15	0.20	µg/L	5.00		101	85-115			
Matrix Spike (2506990-MS1)			**Source: 25H0955-01**		Prepared: 08/20/25 Analyzed: 08/21/25						
Mercury	4.54	0.15	0.20	µg/L	5.00	ND	91	70-130			

08/27/25 16:10

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H0987**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 257|0987 (of)

Report To:	Client Job Number	ANALYSIS REQUESTED	STATE UPLOAD ☐ YES ☐ NO
Company: Stillwater Sciences			STATE SYSTEM #:
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory		GEOTRACKER EDF REPORT ☐ YES ☐ NO
Project Manager: Christina Buck, Elliott Allen			GLOBAL ID:
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible		FIELD CONDITIONS:
Project Name: Lundy WQ-1, 1017.00			
Sampled By: Michael Schweiker	☐ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com		
Job Description:			
Site Location:			

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Chlorophyll-a	Oil & Grease	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
8/18	1630	Equipment Blank		Water	9		1,7,5	X	X	X	X	X	X	X					X	Metals: Sb, As, Ba,
8/18	1645	WQ-LL-3-Surf.			4	1 Pint 1 Glass	4	✓	✓	✓	✓	✓	✓	✓	X				X	Be, Cd, Cr, Co, Cu,
8/18	1700	WQ-LL-3-Bot			4		4	✓	✓	✓	✓	✓	✓	✓					X	Pb, Hg, Mo, Ni, Se,
																				Ag, Tl, V, Zn, Ca,
																				Mg, K, Na
																				INVOICE TO:
																				PO#
																				QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6)= $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
Cameron	Stillwater Sciences	8/19/25 1335		

RECEIVED AT LAB: DATE/TIME: 08/19/25-1335 CONDITIONS/COMMENTS: -4.6/5.2 +0.6

SHIPPED BY: ☐ FED EX ☐ UPS ☐ OTHER AIR BILL #

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2508D56

Report Created for: CLS Labs

3249 Fitzgerald Road
Rancho Cordova, CA 95742

Project Contact: CLS Sub email
Project P.O.:
Project: 25H0987

Project Location:
Project Received: 08/20/2025

Analytical Report reviewed & approved for release on 08/27/2025 by:



Ana Venegas
Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2508D56

Project: 25H0987

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2508D56

Project: 25H0987

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

H	Sample was analyzed out of hold time

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2508D56
Date Received:	08/20/2025 11:50	**Extraction Method:**	SM10200 Part 4
Date Prepared:	08/21/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25H0987	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Equipment Blank	2508D56-001A	Water	08/18/2025 16:30	HPLC5 082625000006.D	324095

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/26/2025 18:46

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LL-3-Surf	2508D56-002A	Water	08/18/2025 16:45	HPLC5 082625000008.D	324095

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/26/2025 20:49

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LL-3-Bot	2508D56-003A	Water	08/18/2025 17:00	HPLC5 082625000009.D	324095

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	**7.6**	H	5.0	1	08/26/2025 21:50

Analyst(s): JS

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	CLS Labs	**WorkOrder:**	2508D56
Date Prepared:	08/21/2025	**BatchID:**	324095
Date Analyzed:	08/26/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	25H0987	**Sample ID:**	MB/LCS/LCSD-324095

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	43	44	50	87	88	70-130	1.03	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2508D56 **ClientCode: CLSR** **QuoteID: 252687**

☐ WaterTrax ☐ CLIP ☐ EDF ☒ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☒ Detection Summary ☐ Excel

Report to:
CLS Sub email
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
916-638-7301 FAX: (916) 638-4510

Email: sub@californialab.com
cc/3rd Party:
PO:
Project: 25H0987

Bill to:
Accounts Payable
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Requested TAT: **5 days;**

Date Received: **08/20/2025**
Date Logged: **08/20/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2508D56-001	Equipment Blank	Water	8/18/2025 16:30	☐	A	A										
2508D56-002	WQ-LL-3-Surf	Water	8/18/2025 16:45	☐	A	A										
2508D56-003	WQ-LL-3-Bot	Water	8/18/2025 17:00	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Yen Cao

Prepared by: Valerie Alfaro

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25H0987
Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2508D56
QC Level: LEVEL 2
Date Logged: 8/20/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Equipment Blank	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	8/18/2025 16:30	5 days	8/27/2025	None	☐	☐
002A	WQ-LL-3-Surf	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	8/18/2025 16:45	5 days	8/27/2025	Trace	☐	☐
003A	WQ-LL-3-Bot	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	8/18/2025 17:00	5 days	8/27/2025	Trace	☐	☐

NOTES: *** STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

LSU8056

SUBCONTRACT ORDER

25H0987

Q. 254226

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Client Services
[redacted]
[redacted]

RECEIVING LABORATORY:

McCampbell Analytical Inc.
1534 Willow Pass Road
Pittsburg, CA 94565-1701
Phone :(925) 252-9262
Fax: (925) 252-9269

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	08/27/25 15:00	08/20/25 16:30	25H0987-01	08/18/25 16:30	08/19/25 13:35	Water

Client sample ID: Equipment Blank
Laboratory sample ID: 25H0987-01
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/27/25 15:00	08/20/25 16:45	25H0987-02	08/18/25 16:45	08/19/25 13:35	Water

Client sample ID: WQ-LL-3-Surf.
Laboratory sample ID: 25H0987-02
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/27/25 15:00	08/20/25 17:00	25H0987-03	08/18/25 17:00	08/19/25 13:35	Water

Client sample ID: WQ-LL-3-Bot
Laboratory sample ID: 25H0987-03
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Relinquished By	Date 8/20/25 0855	Received By	Date 82025 855
Relinquished By	Date 82025 1150	Received By	Date 8/20/25 1150
Shipped By	Airbill Number		

Page 1 of 1

2.0 wet IR41

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	CLS Labs	Date and Time Received:	8/20/2025 11:50
Project:	25H0987	Date Logged:	8/20/2025
		Received by:	Valerie Alfaro
WorkOrder №:	2508D56 Matrix: Water	Logged by:	Valerie Alfaro
Carrier:	Patrick Johnson (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☑	No	☐	NA	☐
COC quote NOT expired?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 2°C				NA	☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2)?	Yes	☐	No	☐	NA	☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA	☑

Comments:

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

August 29, 2025

CLS Work Order #: 25H1059
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 08/20/25 13:09. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 8 (25H1059-01) Water	**Sampled: 08/19/25 09:30**		**Received: 08/20/25 13:09**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**22**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.42**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	**0.055**	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**11**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**22**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**53**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.093**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
WQ - LMC - 7 (25H1059-02) Water	**Sampled: 08/19/25 13:45**		**Received: 08/20/25 13:09**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**20**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.42**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**20**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**53**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.12**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 7 (25H1059-02) Water	**Sampled: 08/19/25 13:45**		**Received: 08/20/25 13:09**							
Total Organic Carbon, Dissolved	ND	0.54	1.0	mg/L	1	2507034	"	08/21/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	**12**	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
WQ - LPH - 9 (25H1059-03) Water	**Sampled: 08/19/25 14:00**		**Received: 08/20/25 13:09**							
Ammonia as N	**0.097**	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.39**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	**0.078**	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**13**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**17**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**45**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.19**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
WQ - MCRD - 6 (25H1059-04) Water	**Sampled: 08/19/25 13:30**		**Received: 08/20/25 13:09**							
Ammonia as N	**0.52**	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.39**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**13**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCRD - 6 (25H1059-04) Water	**Sampled: 08/19/25 13:30**		**Received: 08/20/25 13:09**							
Total Alkalinity	**17**	1.0	5.0	mg/L	1	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**46**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.51**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
WQ - MCBR - 4 (25H1059-05) Water	**Sampled: 08/19/25 12:00**		**Received: 08/20/25 13:09**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.41**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	**0.097**	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**12**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**18**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**47**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.074**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - UMC - 1 (25H1059-06) Water	**Sampled: 08/19/25 11:00**		**Received: 08/20/25 13:09**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.37**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	**0.16**	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**17**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**17**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**51**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.077**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	"	SM 5310B	
Total Phosphorus as P	**0.086**	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	**4.5**	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
WQ - UMC - 2 (25H1059-07) Water	**Sampled: 08/19/25 11:30**		**Received: 08/20/25 13:09**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**20**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.38**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	**0.090**	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	**0.012**	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**15**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**20**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**54**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.12**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - UMC - 2 (25H1059-07) Water Sampled: 08/19/25 11:30 Received: 08/20/25 13:09										
Total Organic Carbon, Dissolved	ND	0.54	1.0	mg/L	1	2507034	"	08/21/25	SM 5310B	
Total Phosphorus as P	**0.074**	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	**3.9**	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
WQ - MCBR - 5 (25H1059-08) Water Sampled: 08/19/25 12:30 Received: 08/20/25 13:09										
Ammonia as N	ND	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**26**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.47**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	**0.054**	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	**0.021**	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	**10**	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Total Alkalinity	**26**	1.0	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	**59**	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.097**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	08/21/25	SM 5310B	
Total Phosphorus as P	**0.023**	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	**2.6**	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	
field blank (25H1059-09) Water Sampled: 08/19/25 09:00 Received: 08/20/25 13:09										
Ammonia as N	**0.025**	0.025	0.10	mg/L	1	2507116	08/22/25	08/22/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**2.6**	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.32**	0.026	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2507072	08/21/25	08/21/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2507016	08/20/25	08/20/25	EPA 300.0	
Orthophosphate as PO4	ND	0.0051	0.15	"	"	2507020	08/20/25	08/20/25	SM4500-P E	
Sulfate as SO4	ND	0.038	0.50	"	"	2507016	08/20/25	08/20/25	EPA 300.0	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
field blank (25H1059-09) Water	**Sampled: 08/19/25 09:00**		**Received: 08/20/25 13:09**							
Total Alkalinity	**2.6**	1.0	5.0	mg/L	1	2507072	08/21/25	08/21/25	SM2320B	
Total Dissolved Solids	ND	5.0	10	"	"	2507060	08/21/25	08/26/25	SM2540C	
Total Kjeldahl Nitrogen	**0.068**	0.040	0.20	"	"	2507117	08/22/25	08/22/25	SM4500-NH3F-2011	
Total Organic Carbon	**0.56**	0.54	1.0	"	"	2507034	08/21/25	08/21/25	SM5310B	
Total Organic Carbon, Dissolved	**0.54**	0.54	1.0	"	"	"	"	08/21/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2507035	08/21/25	08/21/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2507105	08/22/25	08/26/25	SM2540D	

08/29/25 09:52

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Project: Lundy WQ-1, 1017.00
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CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 8 (25H1059-01) Water	**Sampled: 08/19/25 09:30**		**Received: 08/20/25 13:09**							
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**3.3**	0.45	2.0	"	"	"	"	"	"	
Barium	**16**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.7**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.29**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	**0.33**	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.66**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**2.2**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.15**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.88**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**1.9**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.0**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	**0.11**	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.2**	0.27	10	"	"	"	"	"	"	
WQ - LMC - 7 (25H1059-02) Water	**Sampled: 08/19/25 13:45**		**Received: 08/20/25 13:09**							
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**3.8**	0.45	2.0	"	"	"	"	"	"	
Barium	**14**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.45**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LMC - 7 (25H1059-02) Water	**Sampled: 08/19/25 13:45**		**Received: 08/20/25 13:09**							
Copper	**0.30**	0.090	2.0	µg/L	1	2507093	"	08/22/25	EPA 200.8	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.66**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**1.7**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.21**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.91**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**1.3**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**2.1**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.71**	0.27	10	"	"	"	"	"	"	
WQ - LPH - 9 (25H1059-03) Water	**Sampled: 08/19/25 14:00**		**Received: 08/20/25 13:09**							
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**4.2**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.3**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.4**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.36**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	**0.30**	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.41**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**1.4**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.19**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.80**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	

08/29/25 09:52

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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - LPH - 9 (25H1059-03) Water Sampled: 08/19/25 14:00 Received: 08/20/25 13:09										
Silver	ND	0.070	0.50	µg/L	1	2507093	"	08/22/25	EPA 200.8	
Sodium	**1.4**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.65**	0.27	10	"	"	"	"	"	"	
WQ - MCRD - 6 (25H1059-04) Water Sampled: 08/19/25 13:30 Received: 08/20/25 13:09										
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**4.7**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.2**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.6**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.29**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	**0.27**	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.41**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**1.3**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.16**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.83**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**1.3**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.4**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.62**	0.27	10	"	"	"	"	"	"	

08/29/25 09:52

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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

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COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - MCBR - 4 (25H1059-05) Water	**Sampled: 08/19/25 12:00**		**Received: 08/20/25 13:09**							
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**4.2**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.7**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.6**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.48**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	**0.23**	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.45**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**1.5**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.16**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.83**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.7**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.66**	0.27	10	"	"	"	"	"	"	
WQ - UMC - 1 (25H1059-06) Water	**Sampled: 08/19/25 11:00**		**Received: 08/20/25 13:09**							
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**3.0**	0.45	2.0	"	"	"	"	"	"	
Barium	**12**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.83**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	**0.25**	0.060	2.0	"	"	"	"	08/22/25	"	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - UMC - 1 (25H1059-06) Water	**Sampled: 08/19/25 11:00**		**Received: 08/20/25 13:09**							
Copper	**1.3**	0.090	2.0	µg/L	1	2507093	"	08/22/25	EPA 200.8	
Lead	**0.60**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.57**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**1.1**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.46**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.97**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**3.3**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.4**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**2.8**	0.27	10	"	"	"	"	"	"	
WQ - UMC - 2 (25H1059-07) Water	**Sampled: 08/19/25 11:30**		**Received: 08/20/25 13:09**							
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**8.5**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.9**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.64**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	**0.13**	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	**0.60**	0.090	2.0	"	"	"	"	"	"	
Lead	**0.30**	0.020	5.0	"	"	"	"	"	"	
Magnesium	**0.49**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**1.4**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	**0.19**	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.92**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**1.0**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ - UMC - 2 (25H1059-07) Water Sampled: 08/19/25 11:30 Received: 08/20/25 13:09										
Silver	ND	0.070	0.50	µg/L	1	2507093	"	08/22/25	EPA 200.8	
Sodium	**1.4**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.9**	0.27	10	"	"	"	"	"	"	
WQ - MCBR - 5 (25H1059-08) Water Sampled: 08/19/25 12:30 Received: 08/20/25 13:09										
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	**2.4**	0.45	2.0	"	"	"	"	"	"	
Barium	**27**	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.55**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	**0.20**	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	**1.0**	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.93**	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**1.3**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**3.2**	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.0**	0.27	10	"	"	"	"	"	"	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
field blank (25H1059-09) Water Sampled: 08/19/25 09:00 Received: 08/20/25 13:09										
Antimony	ND	0.34	6.0	µg/L	1	2507093	08/22/25	08/22/25	EPA 200.8	
Arsenic	ND	0.45	2.0	"	"	"	"	"	"	
Barium	ND	1.6	20	"	"	2507089	08/22/25	08/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	ND	0.044	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Chromium	**0.52**	0.14	1.0	µg/L	"	2507093	08/22/25	08/25/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	08/22/25	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	ND	0.043	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2507050	08/21/25	08/22/25	EPA 245.1	
Molybdenum	ND	0.11	2.0	"	"	2507093	08/22/25	08/22/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Selenium	**2.2**	0.75	5.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	ND	0.029	1.0	mg/L	"	2507089	08/22/25	08/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2507093	08/22/25	08/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**1.6**	0.27	10	"	"	"	"	"	"	

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507016 - General Prep											
Blank (2507016-BLK1)					Prepared & Analyzed: 08/20/25						
Chloride	ND	0.026	0.50	mg/L							
Sulfate as SO4	ND	0.038	0.50	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2507016-BS1)					Prepared & Analyzed: 08/20/25						
Sulfate as SO4	4.96	0.038	0.50	mg/L	5.00		99	80-120			
Chloride	4.81	0.026	0.50	"	5.00		96	80-120			
Nitrate as N	1.95	0.053	0.40	"	2.00		97	80-120			
LCS Dup (2507016-BSD1)					Prepared & Analyzed: 08/20/25						
Chloride	4.83	0.026	0.50	mg/L	5.00		97	80-120	0.4	20	
Sulfate as SO4	5.01	0.038	0.50	"	5.00		100	80-120	1	20	
Nitrate as N	1.93	0.053	0.40	"	2.00		97	80-120	0.8	20	
Matrix Spike (2507016-MS1)			**Source: 25H1057-01**		Prepared & Analyzed: 08/20/25						
Sulfate as SO4	8.13	0.038	0.50	mg/L	5.00	3.07	101	80-120			
Chloride	27.3	0.026	0.50	"	5.00	23.7	71	80-120			QM-7
Nitrate as N	4.35	0.053	0.40	"	2.00	2.90	72	80-120			QM-7
Matrix Spike Dup (2507016-MSD1)			**Source: 25H1057-01**		Prepared & Analyzed: 08/20/25						
Sulfate as SO4	8.19	0.038	0.50	mg/L	5.00	3.07	102	80-120	0.7	20	
Chloride	27.4	0.026	0.50	"	5.00	23.7	73	80-120	0.2	20	QM-7
Nitrate as N	4.38	0.053	0.40	"	2.00	2.90	74	80-120	0.5	20	QM-7
Batch 2507020 - General Preparation											
Blank (2507020-BLK1)					Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507020 - General Preparation											
LCS (2507020-BS1)					Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	0.907	0.0051	0.15	mg/L	0.918		99	80-120			
LCS Dup (2507020-BSD1)					Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	0.872	0.0051	0.15	mg/L	0.918		95	80-120	4	20	
Matrix Spike (2507020-MS1)			**Source: 25H1041-01**		Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	11.7	0.10	3.0	mg/L	0.918	7.71	436	75-125			QM-7
Matrix Spike Dup (2507020-MSD1)			**Source: 25H1041-01**		Prepared & Analyzed: 08/20/25						
Orthophosphate as PO4	12.1	0.10	3.0	mg/L	0.918	7.71	473	75-125	3	25	QM-7
Batch 2507034 - General Preparation											
Blank (2507034-BLK1)					Prepared & Analyzed: 08/21/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							
LCS (2507034-BS1)					Prepared & Analyzed: 08/21/25						
Total Organic Carbon	9.11	0.54	1.0	mg/L	10.0		91	75-125			
Total Organic Carbon, Dissolved	9.11	0.54	1.0	"	10.0		91	75-125			
LCS Dup (2507034-BSD1)					Prepared & Analyzed: 08/21/25						
Total Organic Carbon	9.22	0.54	1.0	mg/L	10.0		92	75-125	1	25	
Total Organic Carbon, Dissolved	9.22	0.54	1.0	"	10.0		92	75-125	1	25	
Matrix Spike (2507034-MS1)			**Source: 25H1059-01**		Prepared & Analyzed: 08/21/25						
Total Organic Carbon	9.35	0.54	1.0	mg/L	10.0	ND	94	75-125			
Total Organic Carbon, Dissolved	9.35	0.54	1.0	"	10.0	ND	94	75-125			

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507034 - General Preparation											
Matrix Spike Dup (2507034-MSD1)			**Source: 25H1059-01**		Prepared & Analyzed: 08/21/25						
Total Organic Carbon	10.2	0.54	1.0	mg/L	10.0	ND	102	75-125	8	25	
Total Organic Carbon, Dissolved	10.2	0.54	1.0	"	10.0	ND	102	75-125	8	30	
Batch 2507035 - General Preparation											
Blank (2507035-BLK1)					Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2507035-BS1)					Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.317	0.023	0.050	mg/L	0.300		106	80-120			
LCS Dup (2507035-BSD1)					Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.304	0.023	0.050	mg/L	0.300		101	80-120	4	25	
Matrix Spike (2507035-MS1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.325	0.023	0.050	mg/L	0.300	ND	108	75-125			
Matrix Spike Dup (2507035-MSD1)			**Source: 25H0987-01**		Prepared & Analyzed: 08/21/25						
Total Phosphorus as P	0.322	0.023	0.050	mg/L	0.300	ND	107	75-125	1	30	
Batch 2507060 - General Preparation											
Blank (2507060-BLK1)					Prepared: 08/21/25 Analyzed: 08/26/25						
Total Dissolved Solids	ND	5.0	10	mg/L							
LCS (2507060-BS1)					Prepared: 08/21/25 Analyzed: 08/26/25						
Total Dissolved Solids	48.0	5.0	10	mg/L	50.0		96	80-120			

08/29/25 09:52

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H1059**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507060 - General Preparation											
LCS Dup (2507060-BSD1)					Prepared: 08/21/25 Analyzed: 08/26/25						
Total Dissolved Solids	49.0	5.0	10	mg/L	50.0		98	80-120	2	200	
Duplicate (2507060-DUP1)			**Source: 25H1038-01**		Prepared: 08/21/25 Analyzed: 08/26/25						
Total Dissolved Solids	535	5.0	10	mg/L		525			2	20	
Batch 2507072 - General Preparation											
Blank (2507072-BLK1)					Prepared & Analyzed: 08/21/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2507072-DUP1)			**Source: 25H1098-02**		Prepared & Analyzed: 08/21/25						
Total Alkalinity	2.20	1.0	5.0	mg/L		2.20			0	20	
Bicarbonate as CaCO3	2.20	0.50	5.0	"		2.20			0	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Batch 2507105 - General Preparation											
Blank (2507105-BLK1)					Prepared: 08/22/25 Analyzed: 08/26/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							
LCS (2507105-BS1)					Prepared: 08/22/25 Analyzed: 08/26/25						
Total Suspended Solids	96.3	2.5	2.5	mg/L	100		96	80-120			

08/29/25 09:52

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H1059**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507105 - General Preparation											
LCS Dup (2507105-BSD1)					Prepared: 08/22/25 Analyzed: 08/26/25						
Total Suspended Solids	99.9	2.5	2.5	mg/L	100		100	80-120	4	200	
Duplicate (2507105-DUP1)			**Source: 25H1061-01**		Prepared: 08/22/25 Analyzed: 08/26/25						
Total Suspended Solids	80.0	2.5	2.5	mg/L		78.0			3	20	
Batch 2507116 - General Preparation											
Blank (2507116-BLK1)					Prepared & Analyzed: 08/22/25						
Ammonia as N	ND	0.025	0.10	mg/L							
LCS (2507116-BS1)					Prepared & Analyzed: 08/22/25						
Ammonia as N	0.470	0.025	0.10	mg/L	0.500		94	80-120			
LCS Dup (2507116-BSD1)					Prepared & Analyzed: 08/22/25						
Ammonia as N	0.473	0.025	0.10	mg/L	0.500		95	80-120	0.6	25	
Matrix Spike (2507116-MS1)			**Source: 25H1059-09**		Prepared & Analyzed: 08/22/25						
Ammonia as N	0.383	0.025	0.10	mg/L	0.500	0.0250	72	75-125			QM-7
Matrix Spike Dup (2507116-MSD1)			**Source: 25H1059-09**		Prepared & Analyzed: 08/22/25						
Ammonia as N	0.380	0.025	0.10	mg/L	0.500	0.0250	71	75-125	0.8	25	QM-7
Batch 2507117 - General Preparation											
Blank (2507117-BLK1)					Prepared & Analyzed: 08/22/25						
Total Kjeldahl Nitrogen	ND	0.040	0.20	mg/L							

08/29/25 09:52

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H1059**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507117 - General Preparation											
LCS (2507117-BS1)					Prepared & Analyzed: 08/22/25						
Total Kjeldahl Nitrogen	0.493	0.040	0.20	mg/L	0.500		99	80-120			
LCS Dup (2507117-BSD1)					Prepared & Analyzed: 08/22/25						
Total Kjeldahl Nitrogen	0.491	0.040	0.20	mg/L	0.500		98	80-120	0.4	20	
Matrix Spike (2507117-MS1)			**Source: 25H1056-01**		Prepared & Analyzed: 08/22/25						
Total Kjeldahl Nitrogen	0.456	0.040	0.20	mg/L	0.500	0.412	9	75-125			QM-7
Matrix Spike Dup (2507117-MSD1)			**Source: 25H1056-01**		Prepared & Analyzed: 08/22/25						
Total Kjeldahl Nitrogen	0.435	0.040	0.20	mg/L	0.500	0.412	5	75-125	5	25	QM-7

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507050 - EPA 7470A											
Blank (2507050-BLK1)					Prepared: 08/21/25 Analyzed: 08/22/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2507050-BS1)					Prepared: 08/21/25 Analyzed: 08/22/25						
Mercury	4.84	0.15	0.20	µg/L	5.00		97	85-115			
Matrix Spike (2507050-MS1)			**Source: 25H1050-01**		Prepared: 08/21/25 Analyzed: 08/22/25						
Mercury	4.61	0.15	0.20	µg/L	5.00	ND	92	70-130			
Matrix Spike (2507050-MS2)			**Source: 25H1066-01**		Prepared: 08/21/25 Analyzed: 08/22/25						
Mercury	4.86	0.15	0.20	µg/L	5.00	ND	97	70-130			
Batch 2507089 - EPA 200 Series											
Blank (2507089-BLK1)					Prepared & Analyzed: 08/22/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	ND	0.043	1.0	"							
Barium	ND	1.6	20	µg/L							
Potassium	ND	0.13	1.0	mg/L							
Sodium	ND	0.029	1.0	"							
LCS (2507089-BS1)					Prepared & Analyzed: 08/22/25						
Calcium	5.08	0.044	1.0	mg/L	5.00		102	85-115			
Magnesium	5.09	0.043	1.0	"	5.00		102	85-115			
Barium	505	1.6	20	µg/L	500		101	85-115			
Potassium	5.35	0.13	1.0	mg/L	5.00		107	85-115			
Sodium	5.19	0.029	1.0	"	5.00		104	85-115			

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507089 - EPA 200 Series											
Matrix Spike (2507089-MS1)			**Source: 25H1102-01**		Prepared & Analyzed: 08/22/25						
Calcium	13.3	0.044	1.0	mg/L	5.00	8.35	99	70-130			
Barium	515	1.6	20	µg/L	500	21.5	99	70-130			
Magnesium	9.13	0.043	1.0	mg/L	5.00	4.09	101	70-130			
Potassium	12.0	0.13	1.0	"	5.00	6.80	105	70-130			
Sodium	48.7	0.029	1.0	"	5.00	44.2	90	70-130			
Matrix Spike (2507089-MS2)			**Source: 25H1163-01**		Prepared & Analyzed: 08/22/25						
Calcium	6.60	0.044	1.0	mg/L	5.00	1.49	102	70-130			
Magnesium	5.19	0.043	1.0	"	5.00	0.119	101	70-130			
Barium	518	1.6	20	µg/L	500	2.78	103	70-130			
Potassium	5.59	0.13	1.0	mg/L	5.00	0.249	107	70-130			
Sodium	5.67	0.029	1.0	"	5.00	0.573	102	70-130			
Batch 2507093 - EPA 200 Series											
Blank (2507093-BLK1)					Prepared & Analyzed: 08/22/25						
Aluminum	1.73	1.6	20	µg/L							
Antimony	ND	0.34	6.0	"							
Arsenic	ND	0.45	2.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	ND	0.14	1.0	"							
Cobalt	ND	0.060	2.0	"							
Copper	ND	0.090	2.0	"							
Lead	ND	0.020	5.0	"							
Molybdenum	ND	0.11	2.0	"							
Nickel	ND	0.13	2.0	"							
Selenium	ND	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	ND	0.030	1.0	"							
Vanadium	ND	0.070	3.0	"							
Zinc	0.311	0.27	10	"							

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507093 - EPA 200 Series											
LCS (2507093-BS1)					Prepared & Analyzed: 08/22/25						
Aluminum	521	1.6	20	µg/L	500		104	85-115			
Antimony	106	0.34	6.0	"	100		106	85-115			
Arsenic	100	0.45	2.0	"	100		100	85-115			
Beryllium	104	0.31	1.0	"	100		104	85-115			
Cadmium	103	0.17	0.50	"	100		103	85-115			
Chromium	96.8	0.14	1.0	"	100		97	85-115			
Cobalt	98.3	0.060	2.0	"	100		98	85-115			
Copper	100	0.090	2.0	"	100		100	85-115			
Lead	102	0.020	5.0	"	100		102	85-115			
Molybdenum	98.9	0.11	2.0	"	100		99	85-115			
Nickel	100	0.13	2.0	"	100		100	85-115			
Selenium	106	0.75	5.0	"	100		106	85-115			
Silver	102	0.070	0.50	"	100		102	85-115			
Thallium	101	0.030	1.0	"	100		101	85-115			
Vanadium	96.4	0.070	3.0	"	100		96	85-115			
Zinc	102	0.27	10	"	100		102	85-115			
Matrix Spike (2507093-MS1)				**Source: 25H1165-02**	Prepared & Analyzed: 08/22/25						
Aluminum	539	1.6	20	µg/L	500	5.21	107	70-130			
Antimony	107	0.34	6.0	"	100	ND	107	70-130			
Arsenic	99.8	0.45	2.0	"	100	ND	100	70-130			
Beryllium	105	0.31	1.0	"	100	ND	105	70-130			
Cadmium	102	0.17	0.50	"	100	ND	102	70-130			
Chromium	99.1	0.14	1.0	"	100	3.76	95	70-130			
Cobalt	97.2	0.060	2.0	"	100	ND	97	70-130			
Copper	112	0.090	2.0	"	100	13.4	99	70-130			
Lead	103	0.020	5.0	"	100	0.0690	103	70-130			
Molybdenum	98.4	0.11	2.0	"	100	ND	98	70-130			
Nickel	100	0.13	2.0	"	100	1.05	99	70-130			
Selenium	99.3	0.75	5.0	"	100	1.16	98	70-130			
Silver	102	0.070	0.50	"	100	ND	102	70-130			
Thallium	103	0.030	1.0	"	100	ND	103	70-130			

08/29/25 09:52

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25H1059
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507093 - EPA 200 Series											
Matrix Spike (2507093-MS1)			**Source: 25H1165-02**		Prepared & Analyzed: 08/22/25						
Vanadium	96.0	0.070	3.0	µg/L	100	ND	96	70-130			
Zinc	119	0.27	10	"	100	19.1	100	70-130			
Matrix Spike (2507093-MS2)			**Source: 25H1178-01**		Prepared & Analyzed: 08/22/25						
Aluminum	583	1.6	20	µg/L	500	58.4	105	70-130			
Antimony	106	0.34	6.0	"	100	ND	106	70-130			
Arsenic	101	0.45	2.0	"	100	1.06	100	70-130			
Beryllium	107	0.31	1.0	"	100	ND	107	70-130			
Cadmium	103	0.17	0.50	"	100	ND	103	70-130			
Chromium	98.0	0.14	1.0	"	100	1.41	97	70-130			
Cobalt	95.1	0.060	2.0	"	100	0.0720	95	70-130			
Copper	98.8	0.090	2.0	"	100	1.50	97	70-130			
Lead	102	0.020	5.0	"	100	ND	102	70-130			
Molybdenum	100	0.11	2.0	"	100	0.255	100	70-130			
Nickel	99.8	0.13	2.0	"	100	2.88	97	70-130			
Selenium	101	0.75	5.0	"	100	1.22	100	70-130			
Silver	103	0.070	0.50	"	100	ND	103	70-130			
Thallium	103	0.030	1.0	"	100	ND	103	70-130			
Vanadium	98.5	0.070	3.0	"	100	1.46	97	70-130			
Zinc	102	0.27	10	"	100	4.26	98	70-130			

08/29/25 09:52

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25H1059**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

25H1059

CHAIN OF CUSTODY CLS ID. NO. _____ (__ of __)

Report To:	Client Job Number
Company: Stillwater Sciences	
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory
Project Manager: Christina Buck, Elliott Allen	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible. □ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	
Project Name: Lundy WQ-1, 1017.00	
Sampled By: Michael Schweiker	
Job Description:	
Site Location:	

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #: _____

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID: _____

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Chlorophyll-a	Oil & Grease	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
8/19/25	9:30	WQ-LMC-8		Water	9		125	x	x	x	x	x	x	x					x	Metals: Sb, As, Ba,
	1345	WQ-LMC-7																		Be, Cd, Cr, Co, Cu,
	1400	WQ-LPH-9																		Pb, Hg, Mo, Ni, Se,
	1330	WQ-MCRD-6																		Ag, Tl, V, Zn, Ca,
	1200	WQ-MCBR-4																		Mg, K, Na
	1100	WQ-UMC-1																		
	1130	WQ-UMC-2																		
	1230	WQ-MCBR-5																		INVOICE TO:
	900	Field blanks																		
																				PO#
																				QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6)= $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
EK	Elliott Allen/SWS	8/20/25 1309		

RECEIVED AT LAB BY: A.N **DATE/TIME:** 08/20/25 1309 **CONDITIONS/COMMENTS:** 10.9/11.5

SHIPPED BY: □ FED EX □ UPS □ OTHER _____ **AIR BILL #** _____

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2508F91

Report Created for: CLS Labs

3249 Fitzgerald Road
Rancho Cordova, CA 95742

Project Contact: CLS Sub email
Project P.O.:
Project: 25H1059

Project Location:
Project Received: 08/21/2025

Analytical Report reviewed & approved for release on 08/28/2025 by:

Jena Alfaro
Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2508F91

Project: 25H1059

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CLS Labs **WorkOrder:** 2508F91

Project: 25H1059

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

H	Sample was analyzed out of hold time

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"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2508F91
Date Received:	08/21/2025 15:50	**Extraction Method:**	SM10200 Part 4
Date Prepared:	08/25/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25H1059	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-8	2508F91-001A	Water	08/19/2025 09:30	HPLC5 082625000014.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 02:58
Chlorophyll b	ND	H	5.0	1	08/27/2025 02:58

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-7	2508F91-002A	Water	08/19/2025 13:45	HPLC5 082625000016.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 05:00
Chlorophyll b	ND	H	5.0	1	08/27/2025 05:00

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LPH-9	2508F91-003A	Water	08/19/2025 14:00	HPLC5 082625000017.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 06:02
Chlorophyll b	ND	H	5.0	1	08/27/2025 06:02

Analyst(s): JS

(Cont.)

McCampbell Analytical, Inc.
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2508F91
Date Received:	08/21/2025 15:50	**Extraction Method:**	SM10200 Part 4
Date Prepared:	08/25/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25H1059	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCRD-6	2508F91-004A	Water	08/19/2025 13:30	HPLC5 082625000018.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 07:03
Chlorophyll b	ND	H	5.0	1	08/27/2025 07:03

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-4	2508F91-005A	Water	08/19/2025 12:00	HPLC5 082625000020.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 09:06
Chlorophyll b	ND	H	5.0	1	08/27/2025 09:06

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-1	2508F91-006A	Water	08/19/2025 11:00	HPLC5 082625000021.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 10:08
Chlorophyll b	ND	H	5.0	1	08/27/2025 10:08

Analyst(s): JS

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	CLS Labs	**WorkOrder:**	2508F91
Date Received:	08/21/2025 15:50	**Extraction Method:**	SM10200 Part 4
Date Prepared:	08/25/2025	**Analytical Method:**	SM10200 H Part 4
Project:	25H1059	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-2	2508F91-007A	Water	08/19/2025 11:30	HPLC5 082625000022.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 11:09
Chlorophyll b	ND	H	5.0	1	08/27/2025 11:09

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5	2508F91-008A	Water	08/19/2025 12:30	HPLC5 082625000023.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 12:10
Chlorophyll b	ND	H	5.0	1	08/27/2025 12:10

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
field blank	2508F91-009A	Water	08/19/2025 09:00	HPLC5 082625000024.D	324297

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Chlorophyll a	ND	H	5.0	1	08/27/2025 13:12
Chlorophyll b	ND	H	5.0	1	08/27/2025 13:12

Analyst(s): JS

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	CLS Labs	**WorkOrder:**	2508F91
Date Prepared:	08/25/2025	**BatchID:**	324297
Date Analyzed:	08/26/2025 - 08/27/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	25H1059	**Sample ID:**	MB/LCSD-324297 2508F91-001A

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-
Chlorophyll b	ND	5.0	5.0	-	-	-

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
Chlorophyll a	ND	ND	N/A	-
Chlorophyll b	ND	ND	N/A	-

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2508F91 **ClientCode: CLSR** **QuoteID: 252687**

☐ WaterTrax ☐ CLIP ☐ EDF ☑ EQuIS ☑ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag
☑ Detection Summary ☐ Excel

Report to:
CLS Sub email
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
916-638-7301 FAX: (916) 638-4510

Email: sub@californialab.com
cc/3rd Party:
PO:
Project: 25H1059

Bill to:
Accounts Payable
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Requested TAT: **5 days;**

Date Received: **08/21/2025**
Date Logged: **08/22/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2508F91-001	WQ-LMC-8	Water	8/19/2025 09:30	☐	A	A										
2508F91-002	WQ-LMC-7	Water	8/19/2025 13:45	☐	A	A										
2508F91-003	WQ-LPH-9	Water	8/19/2025 14:00	☐	A	A										
2508F91-004	WQ-MCRD-6	Water	8/19/2025 13:30	☐	A	A										
2508F91-005	WQ-MCBR-4	Water	8/19/2025 12:00	☐	A	A										
2508F91-006	WQ-UMC-1	Water	8/19/2025 11:00	☐	A	A										
2508F91-007	WQ-UMC-2	Water	8/19/2025 11:30	☐	A	A										
2508F91-008	WQ-MCBR-5	Water	8/19/2025 12:30	☐	A	A										
2508F91-009	field blank	Water	8/19/2025 09:00	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Yen Cao

Prepared by:

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25H1059

Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2508F91
QC Level: LEVEL 2
Date Logged: 8/22/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	WQ-LMC-8	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 9:30	5 days	8/28/2025	Present	☐	☐
002A	WQ-LMC-7	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 13:45	5 days	8/28/2025		☐	☐
003A	WQ-LPH-9	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 14:00	5 days	8/28/2025		☐	☐
004A	WQ-MCRD-6	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 13:30	5 days	8/28/2025		☐	☐
005A	WQ-MCBR-4	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 12:00	5 days	8/28/2025		☐	☐
006A	WQ-UMC-1	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 11:00	5 days	8/28/2025		☐	☐
007A	WQ-UMC-2	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 11:30	5 days	8/28/2025		☐	☐
008A	WQ-MCBR-5	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 12:30	5 days	8/28/2025		☐	☐
009A	field blank	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA Narrow Mouth, Unpres	☑	☐	☐	8/19/2025 9:00	5 days	8/28/2025		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

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WORK ORDER SUMMARY

Client Name: CLS LABS
Client Contact: CLS Sub email
Contact's Email: sub@californialab.com

Project: 25H1059
Comments: MAI OPB is ok for OPB per MS 5/7/2020.. Do not sent partials, even when TCDD is ordered per email 4/1/22.

Work Order: 2508F91
QC Level: LEVEL 2
Date Logged: 8/22/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ■ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ■ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out

NOTES: *** STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

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U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

SUBCONTRACT ORDER

25H1059

Quote ID 252687

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Client Services
[redacted]

RECEIVING LABORATORY:

McCampbell Analytical Inc.
1534 Willow Pass Road
Pittsburg, CA 94565-1701
Phone :(925) 252-9262
Fax: (925) 252-9269

Short Hold

[redacted]

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 09:30	25H1059-01	08/19/25 09:30	08/20/25 13:09	Water

Client sample ID: WQ - LMC - 8
Laboratory sample ID: 25H1059-01
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 13:45	25H1059-02	08/19/25 13:45	08/20/25 13:09	Water

Client sample ID: WQ - LMC - 7
Laboratory sample ID: 25H1059-02
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 14:00	25H1059-03	08/19/25 14:00	08/20/25 13:09	Water

Client sample ID: WQ - LPH - 9
Laboratory sample ID: 25H1059-03
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

[signature]	08/21/25 1112	[signature]	8/21/25 1112
Relinquished By	Date	Received By	Date
[signature]	8/21/25 1550	[signature]	8/21/25 1550
Relinquished By	Date	Received By	Date
CLS			
Shipped By	Airbill Number		

3.4 Wet Ice
1239

SUBCONTRACT ORDER

25H1059

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 13:30	25H1059-04	08/19/25 13:30	08/20/25 13:09	Water

Client sample ID: WQ - MCRD - 6
Laboratory sample ID: 25H1059-04
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 12:00	25H1059-05	08/19/25 12:00	08/20/25 13:09	Water

Client sample ID: WQ - MCBR - 4
Laboratory sample ID: 25H1059-05
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 11:00	25H1059-06	08/19/25 11:00	08/20/25 13:09	Water

Client sample ID: WQ - UMC - 1
Laboratory sample ID: 25H1059-06
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 11:30	25H1059-07	08/19/25 11:30	08/20/25 13:09	Water

Client sample ID: WQ - UMC - 2
Laboratory sample ID: 25H1059-07
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Relinquished By	Date	Received By	Date
[redacted]	08/21/25 1112	Madyn	8/21/25 1112
Madyn	8/21/25 1650	[redacted]	8/21/25 1650
CLS			

Shipped By | Airbill Number | 3.4 wet ice 11239

SUBCONTRACT ORDER

25H1059

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 12:30	25H1059-08	08/19/25 12:30	08/20/25 13:09	Water

Client sample ID: WQ - MCBR - 5
Laboratory sample ID: 25H1059-08
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Chlorophyl A (SUB)	5	08/28/25 15:00	08/21/25 09:00	25H1059-09	08/19/25 09:00	08/20/25 13:09	Water

Client sample ID: field blank
Laboratory sample ID: 25H1059-09
Please use client sample ID on all reports

[redacted]

Containers Supplied:
1L Amber- Unpres. (D)

[redacted]	08/21/25 1112	Maya	8/21/25 1112
Relinquished By	Date	Received By	Date
Maya	8/21/25 1550	[redacted]	8/21/25 1550
Relinquished By	Date	Received By	Date
CLS			
Shipped By	Airbill Number	3.4 wet ice 1239	**Page 3 of 3**

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Sample Receipt Checklist

Client Name: CLS Labs
Project: 25H1059

Date and Time Received: 8/21/2025 15:50
Date Logged: 8/22/2025
Received by: Chyna Thomas
Logged by:

WorkOrder №: 2508F91 Matrix: Waste Water
Carrier: Oscar Madrigal (MAI contract courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☑	No ☐	NA ☐
COC quote NOT expired?	Yes ☑	No ☐	NA ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
(Ice Type: WET ICE)			
Sample/Temp Blank temperature	Temp: 3.4°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2)?	Yes ☐	No ☐	NA ☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☑

Comments: Method SM10200 H Part 4 (Chlorophyll A & B) was received past its 2-day holding time.

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September 18, 2025

CLS Work Order #: 25I0615
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 09/11/25 13:06. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

09/18/25 15:51

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25I0615
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WT-LL-12 (25I0615-02) Water Sampled: 09/10/25 14:02 Received: 09/11/25 13:06										
Bicarbonate as CaCO3	**20**	0.50	5.0	mg/L	1	2507815	09/16/25	09/16/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**20**	1.0	5.0	"	"	"	"	"	"	
WQ-LL-3 (25I0615-03) Water Sampled: 09/10/25 15:35 Received: 09/11/25 13:06										
Bicarbonate as CaCO3	**20**	0.50	5.0	mg/L	1	2507815	09/16/25	09/16/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**20**	1.0	5.0	"	"	"	"	"	"	
WT-LL-13 (25I0615-04) Water Sampled: 09/10/25 17:55 Received: 09/11/25 13:06										
Bicarbonate as CaCO3	**18**	0.50	5.0	mg/L	1	2507815	09/16/25	09/16/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**18**	1.0	5.0	"	"	"	"	"	"	

09/18/25 15:51

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25I0615
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WT-LL-12 (25I0615-01) Water Sampled: 09/10/25 14:00 Received: 09/11/25 13:06										
Calcium	**9.9**	0.014	1.0	mg/L	1	2507726	09/12/25	09/12/25	EPA 200.7	
WQ-LL-3 (25I0615-03) Water Sampled: 09/10/25 15:35 Received: 09/11/25 13:06										
Calcium	**9.8**	0.014	1.0	mg/L	1	2507726	09/12/25	09/12/25	EPA 200.7	
WT-LL-13 (25I0615-04) Water Sampled: 09/10/25 17:55 Received: 09/11/25 13:06										
Calcium	**9.3**	0.014	1.0	mg/L	1	2507726	09/12/25	09/12/25	EPA 200.7	

09/18/25 15:51

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25I0615**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507815 - General Preparation											
Blank (2507815-BLK1)					Prepared & Analyzed: 09/16/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	ND	0.50	5.0	"							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2507815-DUP1)				**Source: 25I0640-01**	Prepared & Analyzed: 09/16/25						
Total Alkalinity	2.00	1.0	5.0	mg/L		1.80			11	20	J
Bicarbonate as CaCO3	2.00	0.50	5.0	"		1.80			11	20	J
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	

09/18/25 15:51

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25I0615
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2507726 - EPA 200 Series											
Blank (2507726-BLK1)					Prepared & Analyzed: 09/12/25						
Calcium	ND	0.014	1.0	mg/L							
LCS (2507726-BS1)					Prepared & Analyzed: 09/12/25						
Calcium	4.74	0.014	1.0	mg/L	5.00		95	85-115			
Matrix Spike (2507726-MS1)			**Source: 25I0628-03**		Prepared & Analyzed: 09/12/25						
Calcium	13.2	0.014	1.0	mg/L	5.00	8.64	91	70-130			
Matrix Spike (2507726-MS2)			**Source: 25I0633-01**		Prepared & Analyzed: 09/12/25						
Calcium	11.0	0.014	1.0	mg/L	5.00	5.98	100	70-130			

09/18/25 15:51

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25I0615**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 25106l5 (__ of __)

Report To:

Company: Stillwater Sciences

Address: 279 Cousteau Pl #400
Davis, CA 95618

Project Manager: Christina Buck, Elliott Allen

Email: cbuck@stillwatersci.com, eallen@stillwatersci.com

Project Name: Lundy WQ-1, 1017.00

Sampled By: CSM, MEG

Job Description:

Site Location: Lundy Reservoir

Client Job Number:

Destination Laboratory

CALIFORNIA LABORATORY SERVICES
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□ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742
www.californialab.com

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #:

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID:

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Calcium	Alkalinity
9/10/25	14:00	WT-LL-12		Water	1			✓	
9/10/25	14:02	WT-LL-12		↓	↓				✓
9/10/25	15:39	WQ-LL-3						✓	
9/10/25	15:35	WQ-LL-3							✓
9/10/25	17:55	WT-LL-13						✓	
9/10/25	17:55	WT-LL-13							✓

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5

SPECIAL INSTRUCTIONS

INVOICE TO:

PO#

QUOTE #

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	Stillwater Sciences	9/11/25 13:06		

RECEIVED AT LAB BY: [signature] DATE/TIME: 09/11/25-1306 CONDITIONS/COMMENTS: 4.1°C / 3.9°C

SHIPPED BY: □ FED EX □ UPS □ OTHER AIR BILL # -0.2

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder:	2509D83
Report Created for:	Stillwater Sciences 2855 Telegraph Avenue, Suite 400 Berkeley, CA
Project Contact:	Christina Buck
Project P.O.:	
Project:	1017.01; Lundy WQ-1
Project Location:	279 Cousteau Pl Davis, CA 95618
Project Received:	09/19/2025

Analytical Report reviewed & approved for release on 09/26/2025 by:

Tracy Babjar

Project Manager

McCampbell Analytical Inc. is not accredited for all the testing in this report. The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Stillwater Sciences **WorkOrder:** 2509D83

Project: 1017.01; Lundy WQ-1

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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Glossary of Terms & Qualifier Definitions

Client: Stillwater Sciences **WorkOrder:** 2509D83

Project: 1017.01; Lundy WQ-1

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Stillwater Sciences	**WorkOrder:**	2509D83
Date Received:	09/19/2025 14:32	**Extraction Method:**	SM10200 Part 4
Date Prepared:	09/19/2025	**Analytical Method:**	SM10200 H Part 4
Project:	1017.01; Lundy WQ-1	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-4	2509D83-001A	Water	09/18/2025 14:40	HPLC5 092225000006.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	**6.2**	5.0	1	09/22/2025 19:46

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5	2509D83-002A	Water	09/18/2025 15:40	HPLC5 092225000008.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	09/22/2025 21:48

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-8	2509D83-003A	Water	09/18/2025 16:05	HPLC5 092225000009.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	09/22/2025 22:50

Analyst(s): JS

(Cont.)

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Analytical Report

Client:	Stillwater Sciences	**WorkOrder:**	2509D83
Date Received:	09/19/2025 14:32	**Extraction Method:**	SM10200 Part 4
Date Prepared:	09/19/2025	**Analytical Method:**	SM10200 H Part 4
Project:	1017.01; Lundy WQ-1	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-1	2509D83-004A	Water	09/18/2025 16:30	HPLC5 092225000010.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	09/22/2025 23:51

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-2	2509D83-005A	Water	09/18/2025 17:00	HPLC5 092225000011.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	09/23/2025 00:53

Analyst(s): JS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LL-3 (Surface)	2509D83-006A	Water	09/18/2025 13:00	HPLC5 092225000012.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	09/23/2025 01:54

Analyst(s): JS

(Cont.)

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Analytical Report

Client:	Stillwater Sciences	**WorkOrder:**	2509D83
Date Received:	09/19/2025 14:32	**Extraction Method:**	SM10200 Part 4
Date Prepared:	09/19/2025	**Analytical Method:**	SM10200 H Part 4
Project:	1017.01; Lundy WQ-1	**Unit:**	µg/L

Chlorophyll a by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LL-3 (bottom)	2509D83-007A	Water	09/18/2025 13:21	HPLC5 092225000013.D	326170

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	09/23/2025 02:55

Analyst(s): JS

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Quality Control Report

Client:	Stillwater Sciences	**WorkOrder:**	2509D83
Date Prepared:	09/19/2025	**BatchID:**	326170
Date Analyzed:	09/22/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	1017.01; Lundy WQ-1	**Sample ID:**	MB/LCS/LCSD-326170 2509D83-001A

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	42	42	50	83	83	70-130	0.406	20

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
Chlorophyll a	6.2	6.2	0	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2509D83 **ClientCode: SWSBC**

☐ WaterTrax ☐ CLIP ☐ EDF ☑ EQuIS ☑ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☐ Excel

Report to:
Christina Buck
Stillwater Sciences
2855 Telegraph Avenue, Suite 400
Berkeley, CA
510-848-8098 FAX:
Email: cbuck@stillwatersci.com
cc/3rd Party: callen@stillwatersci.com;
PO:
Project: 1017.01; Lundy WQ-1

Bill to:
Shonhreh Rouhani
Stillwater Sciences
2855 Telegraph Avenue, Suite 400
Berkeley, CA 94705
srouhani@stillwatersci.com

Requested TAT: **5 days;**
Date Received: **09/19/2025**
Date Logged: **09/19/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2509D83-001	WQ-MCBR-4	Water	9/18/2025 14:40	☐	A	A										
2509D83-002	WQ-MCBR-5	Water	9/18/2025 15:40	☐	A	A										
2509D83-003	WQ-LMC-8	Water	9/18/2025 16:05	☐	A	A										
2509D83-004	WQ-UMC-1	Water	9/18/2025 16:30	☐	A	A										
2509D83-005	WQ-UMC-2	Water	9/18/2025 17:00	☐	A	A										
2509D83-006	WQ-LL-3 (Surface)	Water	9/18/2025 13:00	☐	A	A										
2509D83-007	WQ-LL-3 (bottom)	Water	9/18/2025 13:21	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Emily Perez

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: STILLWATER SCIENCES **Project:** 1017.01; Lundy WQ-1 **Work Order:** 2509D83
Client Contact: Christina Buck **QC Level:** LEVEL 2
Contact's Email: cbuck@stillwatersci.com **Comments:** **Date Logged:** 9/19/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	WQ-MCBR-4	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 14:40	5 days	9/26/2025	None	☐	☐
002A	WQ-MCBR-5	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 15:40	5 days	9/26/2025	None	☐	☐
003A	WQ-LMC-8	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 16:05	5 days	9/26/2025	None	☐	☐
004A	WQ-UMC-1	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 16:30	5 days	9/26/2025	None	☐	☐
005A	WQ-UMC-2	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 17:00	5 days	9/26/2025	None	☐	☐
006A	WQ-LL-3 (Surface)	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 13:00	5 days	9/26/2025	None	☐	☐
007A	WQ-LL-3 (bottom)	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	9/18/2025 13:21	5 days	9/26/2025	None	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

General COC

MAI Work Order # 2509D83

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush | 2 Day Rush | 3 Day Rush | STD X | Quote #
J-Flag / MDL | ESL | Cleanup Approved | Dry Weight | Bottle Order #
Delivery Format: PDF | GeoTracker EDF | EDD | CLIP EDT (DW) | Detect Summary

Report To: Elliott Allen, Stillwater Sciences Bill To: CLS
Company: Stillwater Sciences 400-638-7301
Email: Cbuck@stillwatersci.com → 415-601-6903
Alt Email: eallen@stillwatersci.com → Tele: 865-308-0821
Project Name: Lundy WQ-1 Project #: 1017.01
Project Location: Lundy Reservoir Address PO # 279 Courthouse Pl
Sampler Signature: Camcannon Davis, CA 95618

Analysis Requested

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Chlorophyll a
WQ-MCBR-4	9/18	14:40	1	DW		✓
WQ-MCBR-5	9/18	15:40	1			
WQ-LMC-8	9/18	16:05	1			
WQ-UMC-1	9/18	16:30	1			
WQ-UMC-2	9/18	17:00	1			
WQ-LL-3 (Surface)	9/18	13:00	1			
WQ-LL-3 (Bottom)	9/18	13:21	1	✓		✓

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions
If requesting Cyanide please indicate sample preservation and any additional sample modifications below. More info: https://rb.gy/n21kzd

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Stillwater Sciences, Camcannon	9/19/25	14:30	NAV -	9/19/25	1432

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 0.1 °C Initials
WAT 1843

Page of

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Sample Receipt Checklist

Client Name:	Stillwater Sciences	Date and Time Received:	9/19/2025 14:32
Project:	1017.01; Lundy WQ-1	Date Logged:	9/19/2025
		Received by:	Agustina Venegas
WorkOrder №:	2509D83 Matrix: Water	Logged by:	Emily Perez
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑
COC quote NOT expired?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 0.1°C				NA	☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2)?	Yes	☐	No	☐	NA	☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA	☑

Comments:

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

October 28, 2025

CLS Work Order #: 25J1134
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 10/21/25 13:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-MCBR-4 (25J1134-01) Water Sampled: 10/20/25 16:30 Received: 10/21/25 13:00										
Ammonia as N	**0.063**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.54**	0.026	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.059**	0.0051	0.15	"	"	2508932	10/21/25	10/21/25	SM4500-P E	J
Sulfate as SO4	**14**	0.038	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Total Alkalinity	**18**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**57**	5.0	10	"	"	2508995	10/23/25	10/24/25	SM2540C	
Total Hardness as CaCO3	**31**	0.19	1.0	"	"	2508942	10/22/25	10/22/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.27**	0.040	0.20	"	"	2508968	10/22/25	10/22/25	SM4500-NH3F-2011	
Total Organic Carbon	**0.79**	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	J
Total Organic Carbon, Dissolved	**0.65**	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	J
Total Phosphorus as P	**0.12**	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508955	10/22/25	10/24/25	SM2540D	
WQ-UMC-1 (25J1134-02) Water Sampled: 10/20/25 16:50 Received: 10/21/25 13:00										
Ammonia as N	**0.037**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**16**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.39**	0.026	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	**0.053**	0.053	0.40	"	"	2508892	10/21/25	10/21/25	EPA 300.0	J
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.017**	0.0051	0.15	"	"	2508932	10/21/25	10/21/25	SM4500-P E	J
Sulfate as SO4	**20**	0.038	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Total Alkalinity	**16**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**64**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-UMC-1 (25J1134-02) Water	**Sampled: 10/20/25 16:50**		**Received: 10/21/25 13:00**							
Total Hardness as CaCO3	**37**	0.19	1.0	mg/L	1	2508942	10/22/25	10/22/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.16**	0.040	0.20	"	"	2508968	10/22/25	10/22/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508955	10/22/25	10/24/25	SM2540D	
WQ-UMC-2 (25J1134-03) Water	**Sampled: 10/20/25 17:15**		**Received: 10/21/25 13:00**							
Ammonia as N	**0.071**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.43**	0.026	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	**0.057**	0.053	0.40	"	"	2508892	10/21/25	10/21/25	EPA 300.0	J
Nitrate/Nitrite as N	**0.057**	0.055	0.40	"	"	"	"	"	"	J
Orthophosphate as PO4	**0.034**	0.0051	0.15	"	"	2508932	10/21/25	10/21/25	SM4500-P E	J
Sulfate as SO4	**18**	0.038	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Total Alkalinity	**18**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**65**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	**32**	0.19	1.0	"	"	2508942	10/22/25	10/22/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.17**	0.040	0.20	"	"	2508968	10/22/25	10/22/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	**2.9**	2.5	2.5	"	"	2508955	10/22/25	10/24/25	SM2540D	

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LMC-8 (25J1134-04) Water Sampled: 10/20/25 14:30 Received: 10/21/25 13:00										
Ammonia as N	**0.094**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**25**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.58**	0.026	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.079**	0.0051	0.15	"	"	2508932	10/21/25	10/21/25	SM4500-P E	J
Sulfate as SO4	**11**	0.038	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Total Alkalinity	**25**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**65**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	**30**	0.19	1.0	"	"	2508942	10/22/25	10/22/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.33**	0.040	0.20	"	"	2508968	10/22/25	10/22/25	SM4500-NH3F-2011	
Total Organic Carbon	**0.94**	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	J
Total Organic Carbon, Dissolved	**0.82**	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	J
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	**2.5**	2.5	2.5	"	"	2508955	10/22/25	10/24/25	SM2540D	
WQ-LPH-9 (25J1134-05) Water Sampled: 10/20/25 15:15 Received: 10/21/25 13:00										
Ammonia as N	**0.077**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**17**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.41**	0.026	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	J
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.038**	0.0051	0.15	"	"	2508932	10/21/25	10/21/25	SM4500-P E	J
Sulfate as SO4	**14**	0.038	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Total Alkalinity	**17**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**57**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	

10/28/25 15:42

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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LPH-9 (25J1134-05) Water Sampled: 10/20/25 15:15 Received: 10/21/25 13:00										
Total Hardness as CaCO3	**31**	0.19	1.0	mg/L	1	2508942	10/22/25	10/22/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.12**	0.040	0.20	"	"	2508968	10/22/25	10/22/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508955	10/22/25	10/24/25	SM2540D	
WQ-MCBR-5 (25J1134-06) Water Sampled: 10/20/25 16:00 Received: 10/21/25 13:00										
Ammonia as N	**0.093**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**41**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.56**	0.026	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.071**	0.0051	0.15	"	"	2508932	10/21/25	10/21/25	SM4500-P E	J
Sulfate as SO4	**11**	0.038	0.50	"	"	2508892	10/21/25	10/21/25	EPA 300.0	
Total Alkalinity	**41**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**64**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	**29**	0.19	1.0	"	"	2508942	10/22/25	10/22/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.14**	0.040	0.20	"	"	2508968	10/22/25	10/22/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508955	10/22/25	10/24/25	SM2540D	

10/28/25 15:42

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COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-MCBR-4 (25J1134-01) Water Sampled: 10/20/25 16:30 Received: 10/21/25 13:00										
Antimony	**0.50**	0.34	6.0	µg/L	1	2508944	10/22/25	10/22/25	EPA 200.8	J
Arsenic	**5.7**	0.45	2.0	"	"	"	"	"	"	
Barium	**8.2**	1.6	20	"	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	**0.061**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.51**	0.043	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2508945	10/22/25	10/22/25	EPA 245.1	
Molybdenum	**2.4**	0.11	2.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.97**	0.13	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Selenium	**2.6**	0.75	5.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.8**	0.029	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Thallium	**0.10**	0.030	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	ND	0.27	10	"	"	"	"	"	"	
WQ-UMC-1 (25J1134-02) Water Sampled: 10/20/25 16:50 Received: 10/21/25 13:00										
Antimony	**0.41**	0.34	6.0	µg/L	1	2508944	10/22/25	10/22/25	EPA 200.8	J
Arsenic	**1.8**	0.45	2.0	"	"	"	"	"	"	J
Barium	**10**	1.6	20	"	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**14**	0.044	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Cobalt	**0.094**	0.060	2.0	"	"	"	"	"	"	J

10/28/25 15:42

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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

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COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-UMC-1 (25J1134-02) Water Sampled: 10/20/25 16:50 Received: 10/21/25 13:00										
Copper	ND	0.090	2.0	µg/L	1	2508944	"	10/22/25	EPA 200.8	
Lead	**0.073**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.55**	0.043	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2508945	10/22/25	10/22/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**1.2**	0.13	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Selenium	**0.97**	0.75	5.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.6**	0.029	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Thallium	**0.11**	0.030	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.71**	0.27	10	"	"	"	"	"	"	J
WQ-UMC-2 (25J1134-03) Water Sampled: 10/20/25 17:15 Received: 10/21/25 13:00										
Antimony	ND	0.34	6.0	µg/L	1	2508944	10/22/25	10/22/25	EPA 200.8	
Arsenic	**8.0**	0.45	2.0	"	"	"	"	"	"	
Barium	**9.2**	1.6	20	"	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Cobalt	**0.087**	0.060	2.0	"	"	"	"	"	"	J
Copper	**0.12**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.47**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.48**	0.043	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2508945	10/22/25	10/22/25	EPA 245.1	
Molybdenum	**2.0**	0.11	2.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.99**	0.13	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Selenium	**0.79**	0.75	5.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J

10/28/25 15:42

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Project: Lundy WQ-1, 1017.00
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COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-UMC-2 (25J1134-03) Water Sampled: 10/20/25 17:15 Received: 10/21/25 13:00										
Silver	ND	0.070	0.50	µg/L	1	2508944	"	10/22/25	EPA 200.8	
Sodium	**1.5**	0.029	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Thallium	**0.035**	0.030	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.72**	0.27	10	"	"	"	"	"	"	J
WQ-LMC-8 (25J1134-04) Water Sampled: 10/20/25 14:30 Received: 10/21/25 13:00										
Antimony	ND	0.34	6.0	µg/L	1	2508944	10/22/25	10/22/25	EPA 200.8	
Arsenic	**2.3**	0.45	2.0	"	"	"	"	"	"	
Barium	**23**	1.6	20	"	"	2508942	10/22/25	10/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Chromium	**0.15**	0.14	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	**0.068**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**1.0**	0.043	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2508945	10/22/25	10/22/25	EPA 245.1	
Molybdenum	**2.3**	0.11	2.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**1.0**	0.13	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Selenium	**1.8**	0.75	5.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**3.1**	0.029	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.67**	0.27	10	"	"	"	"	"	"	J

10/28/25 15:42

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Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LPH-9 (25J1134-05) Water Sampled: 10/20/25 15:15 Received: 10/21/25 13:00										
Antimony	ND	0.34	6.0	µg/L	1	2508944	10/22/25	10/22/25	EPA 200.8	
Arsenic	**5.2**	0.45	2.0	"	"	"	"	"	"	
Barium	**7.9**	1.6	20	"	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**12**	0.044	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	**0.039**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.50**	0.043	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2508945	10/22/25	10/22/25	EPA 245.1	
Molybdenum	**1.7**	0.11	2.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.94**	0.13	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	J
Selenium	**1.2**	0.75	5.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.8**	0.029	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	ND	0.27	10	"	"	"	"	"	"	
WQ-MCBR-5 (25J1134-06) Water Sampled: 10/20/25 16:00 Received: 10/21/25 13:00										
Antimony	ND	0.34	6.0	µg/L	1	2508944	10/22/25	10/22/25	EPA 200.8	
Arsenic	**1.8**	0.45	2.0	"	"	"	"	"	"	J
Barium	**24**	1.6	20	"	"	2508942	10/22/25	10/22/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	QC-2H
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.8**	0.044	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-MCBR-5 (25J1134-06) Water	**Sampled: 10/20/25 16:00**		**Received: 10/21/25 13:00**							
Copper	ND	0.090	2.0	µg/L	1	2508944	"	10/22/25	EPA 200.8	
Lead	**0.060**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**1.0**	0.043	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2508945	10/22/25	10/22/25	EPA 245.1	
Molybdenum	**2.2**	0.11	2.0	"	"	2508944	10/22/25	10/22/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**1.0**	0.13	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Selenium	**0.97**	0.75	5.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**3.0**	0.029	1.0	mg/L	"	2508942	10/22/25	10/22/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2508944	10/22/25	10/22/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**0.65**	0.27	10	"	"	"	"	"	"	J

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508892 - General Prep											
Blank (2508892-BLK1)					Prepared & Analyzed: 10/21/25						
Chloride	ND	0.026	0.50	mg/L							
Sulfate as SO4	ND	0.038	0.50	"							
Nitrate/Nitrite as N	ND	0.055	0.40	"							
Nitrate as N	ND	0.053	0.40	"							
LCS (2508892-BS1)					Prepared & Analyzed: 10/21/25						
Chloride	4.53	0.026	0.50	mg/L	5.00		91	80-120			
Sulfate as SO4	4.57	0.038	0.50	"	5.00		91	80-120			
Nitrate as N	2.05	0.053	0.40	"	2.00		103	80-120			
Nitrate/Nitrite as N	3.90	0.055	0.40	"	4.00		97	80-120			
LCS Dup (2508892-BSD1)					Prepared & Analyzed: 10/21/25						
Chloride	4.83	0.026	0.50	mg/L	5.00		97	80-120	6	20	
Sulfate as SO4	5.00	0.038	0.50	"	5.00		100	80-120	9	20	
Nitrate/Nitrite as N	4.32	0.055	0.40	"	4.00		108	80-120	10	20	
Nitrate as N	2.40	0.053	0.40	"	2.00		120	80-120	16	20	
Matrix Spike (2508892-MS1)			**Source: 25J1016-01**		Prepared & Analyzed: 10/21/25						
Sulfate as SO4	12.4	0.038	0.50	mg/L	5.00	7.80	91	80-120			
Chloride	43.5	0.026	0.50	"	5.00	41.9	32	80-120			QM-7
Nitrate/Nitrite as N	4.64	0.055	0.40	"	4.00	0.981	91	80-120			
Nitrate as N	2.95	0.053	0.40	"	2.00	0.981	98	80-120			
Matrix Spike Dup (2508892-MSD1)			**Source: 25J1016-01**		Prepared & Analyzed: 10/21/25						
Sulfate as SO4	12.4	0.038	0.50	mg/L	5.00	7.80	91	80-120	0.04	20	
Chloride	43.6	0.026	0.50	"	5.00	41.9	33	80-120	0.09	20	QM-7
Nitrate as N	2.94	0.053	0.40	"	2.00	0.981	98	80-120	0.4	20	
Nitrate/Nitrite as N	4.62	0.055	0.40	"	4.00	0.981	91	80-120	0.4	20	

10/28/25 15:42

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1134**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508932 - General Preparation											
Blank (2508932-BLK1)					Prepared & Analyzed: 10/21/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							
LCS (2508932-BS1)					Prepared & Analyzed: 10/21/25						
Orthophosphate as PO4	0.895	0.0051	0.15	mg/L	0.918		97	80-120			
LCS Dup (2508932-BSD1)					Prepared & Analyzed: 10/21/25						
Orthophosphate as PO4	0.870	0.0051	0.15	mg/L	0.918		95	80-120	3	20	
Matrix Spike (2508932-MS1)			**Source: 25J1109-01**		Prepared & Analyzed: 10/21/25						
Orthophosphate as PO4	1.99	0.010	0.30	mg/L	0.918	1.01	106	75-125			
Matrix Spike Dup (2508932-MSD1)			**Source: 25J1109-01**		Prepared & Analyzed: 10/21/25						
Orthophosphate as PO4	2.01	0.010	0.30	mg/L	0.918	1.01	109	75-125	1	25	
Batch 2508942 - EPA 200 Series											
Blank (2508942-BLK1)					Prepared & Analyzed: 10/22/25						
Total Hardness as CaCO3	ND	0.19	1.0	mg/L							
LCS (2508942-BS1)					Prepared & Analyzed: 10/22/25						
Total Hardness as CaCO3	34.5	0.19	1.0	mg/L	33.1		104	85-115			
Matrix Spike (2508942-MS1)			**Source: 25J1134-02**		Prepared & Analyzed: 10/22/25						
Total Hardness as CaCO3	65.7	0.19	1.0	mg/L	33.1	37.5	85	70-130			
Batch 2508955 - General Preparation											
Blank (2508955-BLK1)					Prepared: 10/22/25 Analyzed: 10/24/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							

10/28/25 15:42

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1134**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508955 - General Preparation											
LCS (2508955-BS1)					Prepared: 10/22/25 Analyzed: 10/24/25						
Total Suspended Solids	95.3	2.5	2.5	mg/L	100		95	80-120			
LCS Dup (2508955-BSD1)					Prepared: 10/22/25 Analyzed: 10/24/25						
Total Suspended Solids	91.7	2.5	2.5	mg/L	100		92	80-120	4	200	
Duplicate (2508955-DUP1)			**Source: 25J1071-01**		Prepared: 10/22/25 Analyzed: 10/24/25						
Total Suspended Solids	410	42	42	mg/L		403			2	20	
Batch 2508968 - General Preparation											
Blank (2508968-BLK1)					Prepared & Analyzed: 10/22/25						
Total Kjeldahl Nitrogen	0.0490	0.040	0.20	mg/L							J
LCS (2508968-BS1)					Prepared & Analyzed: 10/22/25						
Total Kjeldahl Nitrogen	0.441	0.040	0.20	mg/L	0.500		88	80-120			
LCS Dup (2508968-BSD1)					Prepared & Analyzed: 10/22/25						
Total Kjeldahl Nitrogen	0.445	0.040	0.20	mg/L	0.500		89	80-120	0.9	20	
Matrix Spike (2508968-MS1)			**Source: 25J1012-01**		Prepared & Analyzed: 10/22/25						
Total Kjeldahl Nitrogen	0.647	0.040	0.20	mg/L	0.500	0.256	78	75-125			
Matrix Spike Dup (2508968-MSD1)			**Source: 25J1012-01**		Prepared & Analyzed: 10/22/25						
Total Kjeldahl Nitrogen	0.685	0.040	0.20	mg/L	0.500	0.256	86	75-125	6	25	
Batch 2508995 - General Preparation											
Blank (2508995-BLK1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	ND	5.0	10	mg/L							

10/28/25 15:42

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1134**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508995 - General Preparation											
LCS (2508995-BS1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120			
LCS Dup (2508995-BSD1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120	0	200	
Duplicate (2508995-DUP1)			**Source: 25J1134-01**		Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	57.0	5.0	10	mg/L		57.0			0	20	
Batch 2509019 - General Preparation											
Blank (2509019-BLK1)					Prepared & Analyzed: 10/24/25						
Ammonia as N	ND	0.025	0.10	mg/L							
LCS (2509019-BS1)					Prepared & Analyzed: 10/24/25						
Ammonia as N	0.481	0.025	0.10	mg/L	0.500		96	80-120			
LCS Dup (2509019-BSD1)					Prepared & Analyzed: 10/24/25						
Ammonia as N	0.469	0.025	0.10	mg/L	0.500		94	80-120	3	25	
Matrix Spike (2509019-MS1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Ammonia as N	0.493	0.025	0.10	mg/L	0.500	0.0630	86	75-125			
Matrix Spike Dup (2509019-MSD1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Ammonia as N	0.529	0.025	0.10	mg/L	0.500	0.0630	93	75-125	7	25	
Batch 2509049 - General Preparation											
Blank (2509049-BLK1)					Prepared & Analyzed: 10/24/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509049 - General Preparation											
LCS (2509049-BS1)					Prepared & Analyzed: 10/24/25						
Total Organic Carbon	9.98	0.54	1.0	mg/L	10.0		100	75-125			
Total Organic Carbon, Dissolved	9.98	0.54	1.0	"	10.0		100	75-125			
LCS Dup (2509049-BSD1)					Prepared & Analyzed: 10/24/25						
Total Organic Carbon	10.6	0.54	1.0	mg/L	10.0		106	75-125	6	25	
Total Organic Carbon, Dissolved	10.6	0.54	1.0	"	10.0		106	75-125	6	25	
Matrix Spike (2509049-MS1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Total Organic Carbon	13.2	0.54	1.0	mg/L	10.0	0.786	124	75-125			
Total Organic Carbon, Dissolved	13.2	0.54	1.0	"	10.0	0.652	126	75-125			QM-7
Matrix Spike Dup (2509049-MSD1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Total Organic Carbon	12.5	0.54	1.0	mg/L	10.0	0.786	117	75-125	6	25	
Total Organic Carbon, Dissolved	12.5	0.54	1.0	"	10.0	0.652	118	75-125	6	30	
Batch 2509100 - General Preparation											
Blank (2509100-BLK1)					Prepared & Analyzed: 10/27/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	0.800	0.50	5.0	"							J
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2509100-DUP1)			**Source: 25J1109-01**		Prepared & Analyzed: 10/27/25						
Total Alkalinity	12.8	1.0	5.0	mg/L		13.0			2	20	
Bicarbonate as CaCO3	12.8	0.50	5.0	"		13.0			2	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	

10/28/25 15:42

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1134**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509112 - General Preparation											
Blank (2509112-BLK1)					Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2509112-BS1)					Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.322	0.023	0.050	mg/L	0.300		107	80-120			
LCS Dup (2509112-BSD1)					Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.315	0.023	0.050	mg/L	0.300		105	80-120	2	25	
Matrix Spike (2509112-MS1)			**Source: 25J1134-06**		Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.292	0.023	0.050	mg/L	0.300	ND	97	75-125			
Matrix Spike Dup (2509112-MSD1)			**Source: 25J1134-06**		Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.297	0.023	0.050	mg/L	0.300	ND	99	75-125	2	30	

10/28/25 15:42

Stillwater Sciences
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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508942 - EPA 200 Series											
Blank (2508942-BLK1)					Prepared & Analyzed: 10/22/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	ND	0.043	1.0	"							
Barium	ND	1.6	20	µg/L							
Potassium	ND	0.13	1.0	mg/L							
Sodium	ND	0.029	1.0	"							
LCS (2508942-BS1)					Prepared & Analyzed: 10/22/25						
Calcium	5.10	0.044	1.0	mg/L	5.00		102	85-115			
Magnesium	5.27	0.043	1.0	"	5.00		105	85-115			
Barium	494	1.6	20	µg/L	500		99	85-115			
Potassium	5.00	0.13	1.0	mg/L	5.00		100	85-115			
Sodium	5.21	0.029	1.0	"	5.00		104	85-115			
Matrix Spike (2508942-MS1)			**Source: 25J1134-02**		Prepared & Analyzed: 10/22/25						
Calcium	17.1	0.044	1.0	mg/L	5.00	14.1	60	70-130			QM-7
Magnesium	5.59	0.043	1.0	"	5.00	0.555	101	70-130			
Barium	492	1.6	20	µg/L	500	10.5	96	70-130			
Potassium	5.83	0.13	1.0	mg/L	5.00	1.15	94	70-130			
Sodium	6.40	0.029	1.0	"	5.00	1.56	97	70-130			
Batch 2508944 - EPA 200 Series											
Blank (2508944-BLK1)					Prepared & Analyzed: 10/22/25						
Aluminum	ND	1.6	20	µg/L							
Antimony	0.566	0.34	6.0	"							J
Arsenic	ND	0.45	2.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	0.233	0.14	1.0	"							J
Cobalt	ND	0.060	2.0	"							
Copper	ND	0.090	2.0	"							
Lead	ND	0.020	5.0	"							
Manganese	0.0840	0.050	2.0	"							J

10/28/25 15:42

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1134**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508944 - EPA 200 Series											
Blank (2508944-BLK1)					Prepared & Analyzed: 10/22/25						
Molybdenum	0.274	0.11	2.0	µg/L							J
Nickel	ND	0.13	2.0	"							
Selenium	ND	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	ND	0.030	1.0	"							
Vanadium	ND	0.070	3.0	"							
Zinc	ND	0.27	10	"							
LCS (2508944-BS1)					Prepared & Analyzed: 10/22/25						
Aluminum	558	1.6	20	µg/L	500		112	85-115			
Antimony	111	0.34	6.0	"	100		111	85-115			
Arsenic	99.9	0.45	2.0	"	100		100	85-115			
Beryllium	113	0.31	1.0	"	100		113	85-115			
Cadmium	105	0.17	0.50	"	100		105	85-115			
Chromium	100	0.14	1.0	"	100		100	85-115			
Cobalt	100	0.060	2.0	"	100		100	85-115			
Copper	104	0.090	2.0	"	100		104	85-115			
Lead	105	0.020	5.0	"	100		105	85-115			
Manganese	104	0.050	2.0	"	100		104	85-115			
Molybdenum	101	0.11	2.0	"	100		101	85-115			
Nickel	104	0.13	2.0	"	100		104	85-115			
Selenium	103	0.75	5.0	"	100		103	85-115			
Silver	103	0.070	0.50	"	100		103	85-115			
Thallium	104	0.030	1.0	"	100		104	85-115			
Vanadium	99.1	0.070	3.0	"	100		99	85-115			
Zinc	103	0.27	10	"	100		103	85-115			
Matrix Spike (2508944-MS1)				**Source: 25J1134-01**	Prepared & Analyzed: 10/22/25						
Aluminum	533	1.6	20	µg/L	500	4.58	106	70-130			
Antimony	106	0.34	6.0	"	100	0.499	106	70-130			
Arsenic	102	0.45	2.0	"	100	5.65	96	70-130			
Beryllium	107	0.31	1.0	"	100	ND	107	70-130			

10/28/25 15:42

Stillwater Sciences
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Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508944 - EPA 200 Series											
Matrix Spike (2508944-MS1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/22/25						
Cadmium	101	0.17	0.50	µg/L	100	ND	101	70-130			
Chromium	96.4	0.14	1.0	"	100	ND	96	70-130			
Cobalt	95.6	0.060	2.0	"	100	ND	96	70-130			
Copper	98.5	0.090	2.0	"	100	ND	98	70-130			
Lead	100	0.020	5.0	"	100	0.0610	100	70-130			
Manganese	107	0.050	2.0	"	100	7.83	100	70-130			
Molybdenum	98.3	0.11	2.0	"	100	2.38	96	70-130			
Nickel	99.3	0.13	2.0	"	100	ND	99	70-130			
Selenium	97.2	0.75	5.0	"	100	2.65	95	70-130			
Silver	99.5	0.070	0.50	"	100	ND	99	70-130			
Thallium	101	0.030	1.0	"	100	0.102	101	70-130			
Vanadium	96.5	0.070	3.0	"	100	ND	97	70-130			
Zinc	99.1	0.27	10	"	100	ND	99	70-130			
Matrix Spike (2508944-MS2)			**Source: 25J1174-01**		Prepared & Analyzed: 10/22/25						
Aluminum	674	1.6	20	µg/L	500	115	112	70-130			
Antimony	111	0.34	6.0	"	100	1.07	110	70-130			
Arsenic	98.0	0.45	2.0	"	100	1.20	97	70-130			
Beryllium	109	0.31	1.0	"	100	ND	109	70-130			
Cadmium	102	0.17	0.50	"	100	ND	102	70-130			
Chromium	97.6	0.14	1.0	"	100	1.48	96	70-130			
Cobalt	97.8	0.060	2.0	"	100	0.824	97	70-130			
Copper	136	0.090	2.0	"	100	33.9	102	70-130			
Lead	117	0.020	5.0	"	100	13.6	104	70-130			
Manganese	255	0.050	2.0	"	100	147	108	70-130			
Molybdenum	102	0.11	2.0	"	100	4.76	97	70-130			
Nickel	108	0.13	2.0	"	100	6.69	101	70-130			
Selenium	104	0.75	5.0	"	100	4.63	99	70-130			
Silver	101	0.070	0.50	"	100	ND	101	70-130			
Thallium	104	0.030	1.0	"	100	0.0390	104	70-130			
Vanadium	98.1	0.070	3.0	"	100	0.816	97	70-130			
Zinc	451	0.27	10	"	100	351	100	70-130			

10/28/25 15:42

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1134
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508944 - EPA 200 Series											
Batch 2508945 - EPA 7470A											
Blank (2508945-BLK1)					Prepared & Analyzed: 10/22/25						
Mercury	ND	0.15	0.20	µg/L							
LCS (2508945-BS1)					Prepared & Analyzed: 10/22/25						
Mercury	4.88	0.15	0.20	µg/L	5.00		98	85-115			
Matrix Spike (2508945-MS1)			**Source: 25J1134-06**		Prepared & Analyzed: 10/22/25						
Mercury	4.68	0.15	0.20	µg/L	5.00	ND	94	70-130			
Matrix Spike (2508945-MS2)			**Source: 25J1147-01**		Prepared & Analyzed: 10/22/25						
Mercury	4.24	0.15	0.20	µg/L	5.00	ND	85	70-130			

10/28/25 15:42

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1134**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 25J1134 (of)

Report To:	Client Job Number
Company: Stillwater Sciences	
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory
Project Manager: Christina Buck, Elliott Allen	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible.
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	□ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com
Project Name: Lundy WQ-1, 1017.00	
Sampled By: Elliott Allen	
Job Description:	
Site Location:	

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #:

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID:

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Nitrate+Nitrite, hardness as CaCO3	Oil & Grease
10/20	1630	WQ-MCBR-4		Water	9		1,5	X	X	X	X	X	X	X	
	1650	WQ-UMC-1													
	1715	WQ-UMC-2													
	1430	WQ-LMC-8													
	1515	WQ-LPM-9													
	1600	WQ-MCBR-5													

TURNAROUND TIME IN DAYS				SPECIAL INSTRUCTIONS
1	2	3	5	
				Metals: Sb, As, Ba,
				Be, Cd, Cr, Co, Cu,
				Pb, Hg, Mo, Ni, Se,
				Ag, Tl, V, Zn, Ca,
				Mg, K, Na
				Please j-flag data
				INVOICE TO:
				PO#
				QUOTE#

SUSPECTED CONSTITUENTS: Please see email communications from Elliott Allen to Scott Furnas for full analyte list

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Cameron McLaughlin/Stillwater Sci	10/21/15 13:00		

RECEIVED AT LAB BY: DATE/TIME: 10/21/15 1300 CONDITIONS/COMMENTS: 11.9 / 13.6

SHIPPED BY: □ FED EX □ UPS □ OTHER AIR BILL #

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2510G75

Report Created for: Stillwater Sciences

2855 Telegraph Avenue, Suite 400
Berkeley, CA

Project Contact: Christina Buck
Project P.O.:
Project: Lundy Way, 1017.01

Project Location: Lundy Reservoir
Project Received: 10/21/2025

Analytical Report reviewed & approved for release on 10/28/2025 by:

Ana Venegas
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: Stillwater Sciences **WorkOrder:** 2510G75

Project: Lundy Way, 1017.01

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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Glossary of Terms & Qualifier Definitions

Client: Stillwater Sciences **WorkOrder:** 2510G75

Project: Lundy Way, 1017.01

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Stillwater Sciences	**WorkOrder:**	2510G75
Date Received:	10/21/2025 11:12	**Extraction Method:**	SM10200 Part 4
Date Prepared:	10/22/2025	**Analytical Method:**	SM10200 H Part 4
Project:	Lundy Way, 1017.01	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-4	2510G75-001A	Water	10/20/2025 16:30	HPLC5 102225000011.D	328382

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	10/22/2025 20:07
Chlorophyll b	ND	5.0	1	10/22/2025 20:07

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-1	2510G75-002A	Water	10/20/2025 16:50	HPLC5 102225000012.D	328382

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	10/22/2025 21:08
Chlorophyll b	ND	5.0	1	10/22/2025 21:08

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-UMC-2	2510G75-003A	Water	10/20/2025 17:15	HPLC5 102225000014.D	328382

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	10/22/2025 23:11
Chlorophyll b	ND	5.0	1	10/22/2025 23:11

Analyst(s): HAD

(Cont.)

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Analytical Report

Client:	Stillwater Sciences	**WorkOrder:**	2510G75
Date Received:	10/21/2025 11:12	**Extraction Method:**	SM10200 Part 4
Date Prepared:	10/22/2025	**Analytical Method:**	SM10200 H Part 4
Project:	Lundy Way, 1017.01	**Unit:**	µg/L

Chlorophyll a & b by HPLC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LMC-8	2510G75-004A	Water	10/20/2025 14:30	HPLC5 102225000015.D	328382

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	10/23/2025 00:12
Chlorophyll b	ND	5.0	1	10/23/2025 00:12

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-LPH-9	2510G75-005A	Water	10/20/2025 15:15	HPLC5 102225000016.D	328382

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	10/23/2025 01:14
Chlorophyll b	ND	5.0	1	10/23/2025 01:14

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WQ-MCBR-5	2510G75-006A	Water	10/20/2025 16:00	HPLC5 102225000017.D	328382

Analytes	Result	RL	DF	Date Analyzed
Chlorophyll a	ND	5.0	1	10/23/2025 02:15
Chlorophyll b	ND	5.0	1	10/23/2025 02:15

Analyst(s): HAD

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Quality Control Report

Client:	Stillwater Sciences	**WorkOrder:**	2510G75
Date Prepared:	10/22/2025	**BatchID:**	328382
Date Analyzed:	10/22/2025	**Extraction Method:**	SM10200 Part 4
Instrument:	HPLC5	**Analytical Method:**	SM10200 H Part 4
Matrix:	Water	**Unit:**	µg/L
Project:	Lundy Way, 1017.01	**Sample ID:**	MB/LCS/LCSD-328382

QC Summary Report for SM10200 H Part 4

Analyte	MB Result	MDL	RL			
Chlorophyll a	ND	5.0	5.0	-	-	-
Chlorophyll b	ND	5.0	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorophyll a	51	51	50	101	101	70-130	0.454	20
Chlorophyll b	50	49	50	101	98	70-130	2.49	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2510G75 **ClientCode: SWSBC**

☐ WaterTrax ☐ CLIP ☐ EDF ☑ EQuIS ☑ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☐ Excel

Report to:
Christina Buck
Stillwater Sciences
2855 Telegraph Avenue, Suite 400
Berkeley, CA
510-848-8098 FAX:

Email: cbuck@stillwatersci.com
cc/3rd Party: maia@stillwatersci.com;
PO:
Project: Lundy Way, 1017.01

Bill to:
Shonhreh Rouhani
Stillwater Sciences
2855 Telegraph Avenue, Suite 400
Berkeley, CA 94705
srouhani@stillwatersci.com

Requested TAT: **5 days;**

Date Received: **10/21/2025**
Date Logged: **10/21/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2510G75-001	WQ-MCBR-4	Water	10/20/2025 16:30	☐	A	A										
2510G75-002	WQ-UMC-1	Water	10/20/2025 16:50	☐	A	A										
2510G75-003	WQ-UMC-2	Water	10/20/2025 17:15	☐	A	A										
2510G75-004	WQ-LMC-8	Water	10/20/2025 14:30	☐	A	A										
2510G75-005	WQ-LPH-9	Water	10/20/2025 15:15	☐	A	A										
2510G75-006	WQ-MCBR-5	Water	10/20/2025 16:00	☐	A	A										

Test Legend:

1	CHLOROPHYLL_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Gemma Gomez

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: STILLWATER SCIENCES **Project:** Lundy Way, 1017.01 **Work Order:** 2510G75
Client Contact: Christina Buck **QC Level:** LEVEL 2
Contact's Email: cbuck@stillwatersci.com **Comments:** **Date Logged:** 10/21/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	WQ-MCBR-4	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	10/20/2025 16:30	5 days	10/28/2025	None	☐	☐
002A	WQ-UMC-1	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	10/20/2025 16:50	5 days	10/28/2025	None	☐	☐
003A	WQ-UMC-2	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	10/20/2025 17:15	5 days	10/28/2025	None	☐	☐
004A	WQ-LMC-8	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	10/20/2025 14:30	5 days	10/28/2025	None	☐	☐
005A	WQ-LPH-9	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	10/20/2025 15:15	5 days	10/28/2025	None	☐	☐
006A	WQ-MCBR-5	Water	SM10200 H Part 4 (Chlorophyll A & B)	1	1LA, Unpres	☑	☐	☐	10/20/2025 16:00	5 days	10/28/2025	None	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

General COC

MAI Work Order # 2510G75

McCAMPBELL ANALYTICAL, INC.

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Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time:	1 Day Rush		2 Day Rush		3 Day Rush		STD	✓	Quote #										
J-Flag / MDL		ESL		Cleanup Approved		Dry Weight		Bottle Order #											
Delivery Format:	PDF		GeoTracker EDF		EDD		CLIP EDT (DW)		Detect Summary										

Report To: Stillwater Sciences	Bill To: CLS Ramona Cortova
Company: Stillwater Sciences	916-638-7301
Email: Chuck@stillwatersci.com	
Alt Email: Ramen@stillwatersci.com	Tele:
Project Name: Lundy WQ, 1017.01	Project #:
Project Location: Lundy Reservoir	PO #
Sampler Signature: Cameron	

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Analysis Requested: Cr6/OPHX11-A
				~~W~~		
WQ - MCBR-4	10/1/25	1630	1	DW		✓
WQ-UMC-1	"	1650	"	"		✓
~~WQ-UMC-2~~ WQ-UMC-2	"	1715	"	"		✓
WQ-LMC-8	"	1430	"	"		✓
WQ-LPH-9	"	1515	"	"		✓
WQ - MCBR-5	"	1600	"	"		✓

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions
If requesting Cyanide please indicate sample preservation and any additional sample modifications below. More info: https://rb.gy/o21kzd

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Stillwater Sciences Cameron	10/1/25	11:12am			
Cameron McLaughlin			Carlyle	10/2/25	11:12

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

~~98.1~~ wet IR41

Page ___ of ___

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Sample Receipt Checklist

Client Name:	Stillwater Sciences	Date and Time Received:	10/21/2025 11:12
Project:	Lundy Way, 1017.01	Date Logged:	10/21/2025
		Received by:	Carolina Garcia
WorkOrder №:	2510G75 Matrix: Water	Logged by:	Gemma Gomez
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑
COC quote NOT expired?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 8.1°C				NA	☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2)?	Yes	☐	No	☐	NA	☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA	☑

Comments:

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

October 29, 2025

CLS Work Order #: 25J1214
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 10/22/25 10:46. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

10/29/25 14:04

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1214
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GM-LL-1 (25J1214-01) Water Sampled: 10/21/25 12:15 Received: 10/22/25 10:46										
Bicarbonate as CaCO3	**21**	0.50	5.0	mg/L	1	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**21**	1.0	5.0	"	"	"	"	"	"	
GM-LL-2 (25J1214-02) Water Sampled: 10/21/25 10:00 Received: 10/22/25 10:46										
Bicarbonate as CaCO3	**19**	0.50	5.0	mg/L	1	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Total Alkalinity	**19**	1.0	5.0	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

10/29/25 14:04

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1214**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GM-LL-1 (25J1214-01) Water Sampled: 10/21/25 12:15 Received: 10/22/25 10:46										
Calcium	**11**	0.014	1.0	mg/L	1	2508981	10/23/25	10/23/25	EPA 200.7	
GM-LL-2 (25J1214-02) Water Sampled: 10/21/25 10:00 Received: 10/22/25 10:46										
Calcium	**11**	0.014	1.0	mg/L	1	2508981	10/23/25	10/23/25	EPA 200.7	

10/29/25 14:04

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1214**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509100 - General Preparation											
Blank (2509100-BLK1)					Prepared & Analyzed: 10/27/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	0.800	0.50	5.0	"							J
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2509100-DUP1)				**Source: 25J1109-01**	Prepared & Analyzed: 10/27/25						
Total Alkalinity	12.8	1.0	5.0	mg/L		13.0			2	20	
Bicarbonate as CaCO3	12.8	0.50	5.0	"		13.0			2	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	

10/29/25 14:04

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1214
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508981 - EPA 200 Series											
Blank (2508981-BLK1)					Prepared & Analyzed: 10/23/25						
Calcium	ND	0.014	1.0	mg/L							
LCS (2508981-BS1)					Prepared & Analyzed: 10/23/25						
Calcium	5.16	0.014	1.0	mg/L	5.00		103	85-115			
Matrix Spike (2508981-MS1)			**Source: 25J1214-01**		Prepared & Analyzed: 10/23/25						
Calcium	16.4	0.014	1.0	mg/L	5.00	11.3	102	70-130			
Matrix Spike (2508981-MS2)			**Source: 25J1246-02**		Prepared & Analyzed: 10/23/25						
Calcium	5.11	0.014	1.0	mg/L	5.00	0.0152	102	70-130			

10/29/25 14:04

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1214**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 251214 (__ of __)

Report To:	Client Job Number
Company: Stillwater Sciences	
Address: 279 Cousteau Pl #400 Davis, CA 95618	Destination Laboratory
Project Manager: Christina Buck, Elliott Allen	
Email: cbuck@stillwatersci.com, eallen@stillwatersci.com	CALIFORNIA LABORATORY SERVICES Committed. Responsive. Flexible.
Project Name: Lundy WQ-1, 1017.00	
Sampled By: Elliott Allen	□ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com
Job Description:	
Site Location:	

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #: _____

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID: _____

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Calcium + Alkalinity (calc.)	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	BOC	FOC	Nitrate+Nitrite, hardness as CaCO3	Oil & Grease
10/21	1215	GM-LL-1		Water	1			X								
10/21	1000	GM-LL-2		"	1			X								

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5

SPECIAL INSTRUCTIONS:

Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Mg, K, Na

Please j-flag data

INVOICE TO:

PO#

QUOTE#

SUSPECTED CONSTITUENTS:

PRESERVATION: (1) = HCL (2) = HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Elliott Allen/SWS	10/22/25 1046		

RECEIVED AT LAB BY: [signature] DATE/TIME: 10/22/25 1046 CONDITIONS/COMMENTS: 7.8/7.6

SHIPPED BY: □ FED EX □ UPS □ OTHER _____ AIR BILL # _____

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

October 29, 2025

CLS Work Order #: 25J1216
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy WQ-1, 1017.00

Enclosed are the results of analyses for samples received by the laboratory on 10/22/25 10:46. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 bot (25J1216-01) Water	**Sampled: 10/21/25 14:00**		**Received: 10/22/25 10:46**							
Ammonia as N	ND	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	**16**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**1.4**	0.026	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.079**	0.0051	0.15	"	"	2508971	10/22/25	10/23/25	SM4500-P E	J
Sulfate as SO4	**15**	0.038	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Total Alkalinity	**16**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**55**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	**26**	0.19	1.0	"	"	2508981	10/23/25	10/23/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.32**	0.040	0.20	"	"	2509134	10/28/25	10/28/25	SM4500-NH3F-2011	
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/24/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508989	10/23/25	10/27/25	SM2540D	
WQ-LL-3 surf (25J1216-02) Water	**Sampled: 10/21/25 13:30**		**Received: 10/22/25 10:46**							
Ammonia as N	**0.099**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.45**	0.026	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	J
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	"	"	2509086	10/27/25	10/27/25	EPA 1664B	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.071**	0.0051	0.15	"	"	2508971	10/22/25	10/23/25	SM4500-P E	J
Sulfate as SO4	**15**	0.038	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 surf (25J1216-02) Water Sampled: 10/21/25 13:30 Received: 10/22/25 10:46										
Total Alkalinity	**18**	1.0	5.0	mg/L	1	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**56**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	**28**	0.19	1.0	"	"	2508981	10/23/25	10/23/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.18**	0.040	0.20	"	"	2509134	10/28/25	10/28/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/24/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/25/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508989	10/23/25	10/27/25	SM2540D	
Duplicate (25J1216-03) Water Sampled: 10/21/25 13:30 Received: 10/22/25 10:46										
Ammonia as N	**0.087**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**18**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**0.44**	0.026	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	J
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	"	"	2509086	10/27/25	10/27/25	EPA 1664B	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.083**	0.0051	0.15	"	"	2508971	10/22/25	10/23/25	SM4500-P E	J
Sulfate as SO4	**15**	0.038	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Total Alkalinity	**18**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	**56**	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	**28**	0.19	1.0	"	"	2508981	10/23/25	10/23/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.17**	0.040	0.20	"	"	2509134	10/28/25	10/28/25	SM4500-NH3F-2011	J
Total Organic Carbon	**1.0**	0.54	1.0	"	"	2509049	10/24/25	10/27/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/27/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508989	10/23/25	10/27/25	SM2540D	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
field Blank (25J1216-04) Water Sampled: 10/21/25 12:00 Received: 10/22/25 10:46										
Ammonia as N	**0.070**	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	J
Bicarbonate as CaCO3	**1.6**	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	J
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	ND	0.026	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.083**	0.0051	0.15	"	"	2508971	10/22/25	10/23/25	SM4500-P E	J
Sulfate as SO4	ND	0.038	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	QC-2H
Total Alkalinity	**1.6**	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	J
Total Dissolved Solids	ND	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	
Total Hardness as CaCO3	ND	0.19	1.0	"	"	2508981	10/23/25	10/23/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.13**	0.040	0.20	"	"	2509134	10/28/25	10/28/25	SM4500-NH3F-2011	J
Total Organic Carbon	ND	0.54	1.0	"	"	2509049	10/24/25	10/27/25	SM5310B	
Total Organic Carbon, Dissolved	ND	0.54	1.0	"	"	"	"	10/27/25	SM 5310B	
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508989	10/23/25	10/27/25	SM2540D	
Equipment Blank (25J1216-05) Water Sampled: 10/21/25 12:30 Received: 10/22/25 10:46										
Ammonia as N	ND	0.025	0.10	mg/L	1	2509019	10/24/25	10/24/25	SM4500-NH3F-2011	
Bicarbonate as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Carbonate as CaCO3	ND	0.50	5.0	"	"	"	"	"	"	
Chloride	**31**	0.026	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Hydroxide as CaCO3	ND	0.50	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Nitrate as N	ND	0.053	0.40	"	"	2508939	10/22/25	10/22/25	EPA 300.0	
Nitrate/Nitrite as N	ND	0.055	0.40	"	"	"	"	"	"	
Orthophosphate as PO4	**0.071**	0.0051	0.15	"	"	2508971	10/22/25	10/23/25	SM4500-P E	J
Sulfate as SO4	**0.13**	0.038	0.50	"	"	2508939	10/22/25	10/22/25	EPA 300.0	QC-2H, J
Total Alkalinity	ND	1.0	5.0	"	"	2509100	10/27/25	10/28/25	SM2320B	
Total Dissolved Solids	ND	5.0	10	"	"	2508995	10/23/25	10/27/25	SM2540C	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (25J1216-05) Water	**Sampled: 10/21/25 12:30**		**Received: 10/22/25 10:46**							
Total Hardness as CaCO3	ND	0.19	1.0	mg/L	1	2508981	10/23/25	10/23/25	EPA 200.7	
Total Kjeldahl Nitrogen	**0.20**	0.040	0.20	"	"	2509134	10/28/25	10/28/25	SM4500-NH3F-2011	J
Total Organic Carbon	**0.87**	0.54	1.0	"	"	2509049	10/24/25	10/27/25	SM5310B	J
Total Organic Carbon, Dissolved	**0.80**	0.54	1.0	"	"	"	"	10/27/25	SM 5310B	J
Total Phosphorus as P	ND	0.023	0.050	"	"	2509112	10/28/25	10/28/25	SM4500-P E	
Total Suspended Solids	ND	2.5	2.5	"	"	2508989	10/23/25	10/27/25	SM2540D	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 bot (25J1216-01) Water Sampled: 10/21/25 14:00 Received: 10/22/25 10:46										
Antimony	ND	0.34	6.0	µg/L	1	2508978	10/23/25	10/24/25	EPA 200.8	
Arsenic	**4.6**	0.45	2.0	"	"	"	"	10/23/25	"	
Barium	**7.1**	1.6	20	"	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**9.9**	0.044	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.16**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.12**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.42**	0.043	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2509090	10/27/25	10/29/25	EPA 245.1	QC-2H
Molybdenum	**1.9**	0.11	2.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.86**	0.13	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Selenium	ND	0.75	5.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.6**	0.029	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**4.8**	0.27	10	"	"	"	"	"	"	J
WQ-LL-3 surf (25J1216-02) Water Sampled: 10/21/25 13:30 Received: 10/22/25 10:46										
Antimony	ND	0.34	6.0	µg/L	1	2508978	10/23/25	10/24/25	EPA 200.8	
Arsenic	**5.3**	0.45	2.0	"	"	"	"	10/23/25	"	
Barium	**7.3**	1.6	20	"	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WQ-LL-3 surf (25J1216-02) Water Sampled: 10/21/25 13:30 Received: 10/22/25 10:46										
Copper	**0.12**	0.090	2.0	µg/L	1	2508978	"	10/23/25	EPA 200.8	J
Lead	**0.037**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.44**	0.043	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2509090	10/27/25	10/29/25	EPA 245.1	QC-2H
Molybdenum	**2.4**	0.11	2.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.88**	0.13	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Selenium	**1.1**	0.75	5.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	**1.7**	0.029	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Thallium	**0.12**	0.030	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	ND	0.27	10	"	"	"	"	"	"	
Duplicate (25J1216-03) Water Sampled: 10/21/25 13:30 Received: 10/22/25 10:46										
Antimony	ND	0.34	6.0	µg/L	1	2508978	10/23/25	10/24/25	EPA 200.8	
Arsenic	**5.1**	0.45	2.0	"	"	"	"	10/23/25	"	
Barium	**9.0**	1.6	20	"	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Beryllium	ND	0.31	1.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	**10**	0.044	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Chromium	ND	0.14	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	**0.12**	0.090	2.0	"	"	"	"	"	"	J
Lead	**0.025**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	**0.52**	0.043	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Mercury	ND	0.15	0.20	µg/L	"	2509090	10/27/25	10/29/25	EPA 245.1	QC-2H
Molybdenum	**2.0**	0.11	2.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	**0.86**	0.13	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	J
Selenium	ND	0.75	5.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Duplicate (25J1216-03) Water Sampled: 10/21/25 13:30 Received: 10/22/25 10:46										
Silver	ND	0.070	0.50	µg/L	1	2508978	"	10/23/25	EPA 200.8	
Sodium	**1.8**	0.029	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Thallium	**0.035**	0.030	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	ND	0.27	10	"	"	"	"	"	"	
field Blank (25J1216-04) Water Sampled: 10/21/25 12:00 Received: 10/22/25 10:46										
Antimony	ND	0.34	6.0	µg/L	1	2508978	10/23/25	10/24/25	EPA 200.8	
Arsenic	ND	0.45	2.0	"	"	"	"	10/23/25	"	
Barium	ND	1.6	20	"	"	2508981	10/23/25	10/23/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	ND	0.044	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Chromium	**0.24**	0.14	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	ND	0.020	5.0	"	"	"	"	"	"	
Magnesium	ND	0.043	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Mercury	ND	0.15	0.20	µg/L	"	2509090	10/27/25	10/29/25	EPA 245.1	QC-2H
Molybdenum	**0.16**	0.11	2.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	ND	0.029	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	ND	0.27	10	"	"	"	"	"	"	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (25J1216-05) Water	**Sampled: 10/21/25 12:30**		**Received: 10/22/25 10:46**							
Antimony	ND	0.34	6.0	µg/L	1	2508978	10/23/25	10/24/25	EPA 200.8	
Arsenic	ND	0.45	2.0	"	"	"	"	10/23/25	"	
Barium	ND	1.6	20	"	"	2508981	10/23/25	10/23/25	EPA 200.7	
Beryllium	ND	0.31	1.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Cadmium	ND	0.17	0.50	"	"	"	"	"	"	
Calcium	ND	0.044	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Chromium	**0.27**	0.14	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	J
Cobalt	ND	0.060	2.0	"	"	"	"	"	"	
Copper	ND	0.090	2.0	"	"	"	"	"	"	
Lead	**0.087**	0.020	5.0	"	"	"	"	"	"	J
Magnesium	ND	0.043	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Mercury	**0.15**	0.15	0.20	µg/L	"	2509090	10/27/25	10/29/25	EPA 245.1	QC-2H, J
Molybdenum	ND	0.11	2.0	"	"	2508978	10/23/25	10/23/25	EPA 200.8	
Nickel	ND	0.13	2.0	"	"	"	"	"	"	
Potassium	ND	0.13	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Selenium	ND	0.75	5.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Silver	ND	0.070	0.50	"	"	"	"	"	"	
Sodium	ND	0.029	1.0	mg/L	"	2508981	10/23/25	10/23/25	EPA 200.7	
Thallium	ND	0.030	1.0	µg/L	"	2508978	10/23/25	10/23/25	EPA 200.8	
Vanadium	ND	0.070	3.0	"	"	"	"	"	"	
Zinc	**8.8**	0.27	10	"	"	"	"	"	"	J

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508939 - General Prep											
Blank (2508939-BLK1)					Prepared & Analyzed: 10/22/25						
Sulfate as SO4	0.123	0.038	0.50	mg/L							J
Chloride	0.250	0.026	0.50	"							J
Nitrate as N	ND	0.053	0.40	"							
Nitrate/Nitrite as N	ND	0.055	0.40	"							
LCS (2508939-BS1)					Prepared & Analyzed: 10/22/25						
Chloride	4.58	0.026	0.50	mg/L	5.00		92	80-120			
Sulfate as SO4	4.65	0.038	0.50	"	5.00		93	80-120			
Nitrate/Nitrite as N	3.94	0.055	0.40	"	4.00		99	80-120			
Nitrate as N	2.08	0.053	0.40	"	2.00		104	80-120			
LCS Dup (2508939-BSD1)					Prepared & Analyzed: 10/22/25						
Sulfate as SO4	4.75	0.038	0.50	mg/L	5.00		95	80-120	2	20	
Chloride	4.66	0.026	0.50	"	5.00		93	80-120	2	20	
Nitrate/Nitrite as N	4.02	0.055	0.40	"	4.00		101	80-120	2	20	
Nitrate as N	2.13	0.053	0.40	"	2.00		106	80-120	2	20	
Matrix Spike (2508939-MS1)			**Source: 25J1175-01**		Prepared & Analyzed: 10/22/25						
Chloride	11.5	0.026	0.50	mg/L	5.00	7.46	81	80-120			
Sulfate as SO4	14.3	0.038	0.50	"	5.00	9.98	86	80-120			
Nitrate as N	4.89	0.053	0.40	"	2.00	2.91	99	80-120			
Nitrate/Nitrite as N	6.71	0.055	0.40	"	4.00	2.91	95	80-120			
Matrix Spike Dup (2508939-MSD1)			**Source: 25J1175-01**		Prepared & Analyzed: 10/22/25						
Chloride	11.6	0.026	0.50	mg/L	5.00	7.46	83	80-120	0.9	20	
Sulfate as SO4	14.4	0.038	0.50	"	5.00	9.98	88	80-120	0.6	20	
Nitrate as N	4.94	0.053	0.40	"	2.00	2.91	101	80-120	0.9	20	
Nitrate/Nitrite as N	6.80	0.055	0.40	"	4.00	2.91	97	80-120	1	20	

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508971 - General Preparation											
Blank (2508971-BLK1)					Prepared: 10/22/25 Analyzed: 10/23/25						
Orthophosphate as PO4	ND	0.0051	0.15	mg/L							
LCS (2508971-BS1)					Prepared: 10/22/25 Analyzed: 10/23/25						
Orthophosphate as PO4	0.903	0.0051	0.15	mg/L	0.918		98	80-120			
LCS Dup (2508971-BSD1)					Prepared: 10/22/25 Analyzed: 10/23/25						
Orthophosphate as PO4	0.858	0.0051	0.15	mg/L	0.918		93	80-120	5	20	
Matrix Spike (2508971-MS1)			**Source: 25J1181-01**		Prepared: 10/22/25 Analyzed: 10/23/25						
Orthophosphate as PO4	1.81	0.010	0.30	mg/L	0.918	0.916	98	75-125			
Matrix Spike Dup (2508971-MSD1)			**Source: 25J1181-01**		Prepared: 10/22/25 Analyzed: 10/23/25						
Orthophosphate as PO4	1.81	0.010	0.30	mg/L	0.918	0.916	97	75-125	0.5	25	
Batch 2508981 - EPA 200 Series											
Blank (2508981-BLK1)					Prepared & Analyzed: 10/23/25						
Total Hardness as CaCO3	ND	0.19	1.0	mg/L							
LCS (2508981-BS1)					Prepared & Analyzed: 10/23/25						
Total Hardness as CaCO3	34.2	0.19	1.0	mg/L	33.1		103	85-115			
Matrix Spike (2508981-MS1)			**Source: 25J1214-01**		Prepared & Analyzed: 10/23/25						
Total Hardness as CaCO3	65.2	0.19	1.0	mg/L	33.1	31.2	103	70-130			
Matrix Spike (2508981-MS2)			**Source: 25J1246-02**		Prepared & Analyzed: 10/23/25						
Total Hardness as CaCO3	34.1	0.19	1.0	mg/L	33.1	ND	103	70-130			

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508989 - General Preparation											
Blank (2508989-BLK1)					Prepared: 10/23/25 Analyzed: 10/27/25						
Total Suspended Solids	ND	2.5	2.5	mg/L							
LCS (2508989-BS1)					Prepared: 10/23/25 Analyzed: 10/27/25						
Total Suspended Solids	89.3	2.5	2.5	mg/L	100		89	80-120			
LCS Dup (2508989-BSD1)					Prepared: 10/23/25 Analyzed: 10/27/25						
Total Suspended Solids	88.4	2.5	2.5	mg/L	100		88	80-120	1	200	
Duplicate (2508989-DUP1)			**Source: 25J1139-01**		Prepared: 10/23/25 Analyzed: 10/27/25						
Total Suspended Solids	317	36	36	mg/L		314			1	20	
Batch 2508995 - General Preparation											
Blank (2508995-BLK1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	ND	5.0	10	mg/L							
LCS (2508995-BS1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120			
LCS Dup (2508995-BSD1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	47.0	5.0	10	mg/L	50.0		94	80-120	0	200	
Duplicate (2508995-DUP1)			**Source: 25J1134-01**		Prepared: 10/23/25 Analyzed: 10/24/25						
Total Dissolved Solids	57.0	5.0	10	mg/L		57.0			0	20	
Batch 2509019 - General Preparation											
Blank (2509019-BLK1)					Prepared & Analyzed: 10/24/25						
Ammonia as N	ND	0.025	0.10	mg/L							

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509019 - General Preparation											
LCS (2509019-BS1)					Prepared & Analyzed: 10/24/25						
Ammonia as N	0.481	0.025	0.10	mg/L	0.500		96	80-120			
LCS Dup (2509019-BSD1)					Prepared & Analyzed: 10/24/25						
Ammonia as N	0.469	0.025	0.10	mg/L	0.500		94	80-120	3	25	
Matrix Spike (2509019-MS1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Ammonia as N	0.493	0.025	0.10	mg/L	0.500	0.0630	86	75-125			
Matrix Spike Dup (2509019-MSD1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Ammonia as N	0.529	0.025	0.10	mg/L	0.500	0.0630	93	75-125	7	25	
Batch 2509049 - General Preparation											
Blank (2509049-BLK1)					Prepared & Analyzed: 10/24/25						
Total Organic Carbon	ND	0.54	1.0	mg/L							
Total Organic Carbon, Dissolved	ND	0.54	1.0	"							
LCS (2509049-BS1)					Prepared & Analyzed: 10/24/25						
Total Organic Carbon	9.98	0.54	1.0	mg/L	10.0		100	75-125			
Total Organic Carbon, Dissolved	9.98	0.54	1.0	"	10.0		100	75-125			
LCS Dup (2509049-BSD1)					Prepared & Analyzed: 10/24/25						
Total Organic Carbon	10.6	0.54	1.0	mg/L	10.0		106	75-125	6	25	
Total Organic Carbon, Dissolved	10.6	0.54	1.0	"	10.0		106	75-125	6	25	
Matrix Spike (2509049-MS1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Total Organic Carbon	13.2	0.54	1.0	mg/L	10.0	0.786	124	75-125			
Total Organic Carbon, Dissolved	13.2	0.54	1.0	"	10.0	0.652	126	75-125			QM-7

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509049 - General Preparation											
Matrix Spike Dup (2509049-MSD1)			**Source: 25J1134-01**		Prepared & Analyzed: 10/24/25						
Total Organic Carbon	12.5	0.54	1.0	mg/L	10.0	0.786	117	75-125	6	25	
Total Organic Carbon, Dissolved	12.5	0.54	1.0	"	10.0	0.652	118	75-125	6	30	
Batch 2509086 - Solvent Extract											
Blank (2509086-BLK1)					Prepared & Analyzed: 10/27/25						
Hexane Extractable Material (HEM, Oil & Grease)	ND	1.0	5.0	mg/L							
LCS (2509086-BS1)					Prepared & Analyzed: 10/27/25						
Hexane Extractable Material (HEM, Oil & Grease)	38.8	1.0	5.0	mg/L	40.0		97	78-114			
LCS Dup (2509086-BSD1)					Prepared & Analyzed: 10/27/25						
Hexane Extractable Material (HEM, Oil & Grease)	37.8	1.0	5.0	mg/L	40.0		95	78-114	3	18	
Batch 2509100 - General Preparation											
Blank (2509100-BLK1)					Prepared & Analyzed: 10/27/25						
Total Alkalinity	ND	1.0	5.0	mg/L							
Bicarbonate as CaCO3	0.800	0.50	5.0	"							J
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Duplicate (2509100-DUP1)			**Source: 25J1109-01**		Prepared & Analyzed: 10/27/25						
Total Alkalinity	12.8	1.0	5.0	mg/L		13.0			2	20	
Bicarbonate as CaCO3	12.8	0.50	5.0	"		13.0			2	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509112 - General Preparation											
Blank (2509112-BLK1)					Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	ND	0.023	0.050	mg/L							
LCS (2509112-BS1)					Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.322	0.023	0.050	mg/L	0.300		107	80-120			
LCS Dup (2509112-BSD1)					Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.315	0.023	0.050	mg/L	0.300		105	80-120	2	25	
Matrix Spike (2509112-MS1)			**Source: 25J1134-06**		Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.292	0.023	0.050	mg/L	0.300	ND	97	75-125			
Matrix Spike Dup (2509112-MSD1)			**Source: 25J1134-06**		Prepared & Analyzed: 10/28/25						
Total Phosphorus as P	0.297	0.023	0.050	mg/L	0.300	ND	99	75-125	2	30	
Batch 2509134 - General Preparation											
Blank (2509134-BLK1)					Prepared & Analyzed: 10/28/25						
Total Kjeldahl Nitrogen	0.0650	0.040	0.20	mg/L							J
LCS (2509134-BS1)					Prepared & Analyzed: 10/28/25						
Total Kjeldahl Nitrogen	0.523	0.040	0.20	mg/L	0.500		105	80-120			
LCS Dup (2509134-BSD1)					Prepared & Analyzed: 10/28/25						
Total Kjeldahl Nitrogen	0.495	0.040	0.20	mg/L	0.500		99	80-120	6	20	
Matrix Spike (2509134-MS1)			**Source: 25J1216-05**		Prepared & Analyzed: 10/28/25						
Total Kjeldahl Nitrogen	0.575	0.040	0.20	mg/L	0.500	0.195	76	75-125			

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509134 - General Preparation											
Matrix Spike Dup (2509134-MSD1)			**Source: 25J1216-05**		Prepared & Analyzed: 10/28/25						
Total Kjeldahl Nitrogen	0.566	0.040	0.20	mg/L	0.500	0.195	74	75-125	2	25	QM-7

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508978 - EPA 200 Series											
Blank (2508978-BLK1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Antimony	ND	0.34	6.0	µg/L							
Arsenic	ND	0.45	2.0	"							
Beryllium	ND	0.31	1.0	"							
Cadmium	ND	0.17	0.50	"							
Chromium	0.480	0.14	1.0	"							J
Cobalt	ND	0.060	2.0	"							
Copper	ND	0.090	2.0	"							
Lead	ND	0.020	5.0	"							
Molybdenum	0.228	0.11	2.0	"							J
Nickel	ND	0.13	2.0	"							
Selenium	ND	0.75	5.0	"							
Silver	ND	0.070	0.50	"							
Thallium	ND	0.030	1.0	"							
Vanadium	ND	0.070	3.0	"							
Zinc	ND	0.27	10	"							
LCS (2508978-BS1)					Prepared: 10/23/25 Analyzed: 10/24/25						
Antimony	109	0.34	6.0	µg/L	100		109	85-115			
Arsenic	93.7	0.45	2.0	"	100		94	85-115			
Beryllium	104	0.31	1.0	"	100		104	85-115			
Cadmium	98.5	0.17	0.50	"	100		99	85-115			
Chromium	93.7	0.14	1.0	"	100		94	85-115			
Cobalt	95.8	0.060	2.0	"	100		96	85-115			
Copper	98.9	0.090	2.0	"	100		99	85-115			
Lead	95.0	0.020	5.0	"	100		95	85-115			
Molybdenum	96.6	0.11	2.0	"	100		97	85-115			
Nickel	99.4	0.13	2.0	"	100		99	85-115			
Selenium	94.3	0.75	5.0	"	100		94	85-115			
Silver	96.1	0.070	0.50	"	100		96	85-115			
Thallium	93.5	0.030	1.0	"	100		93	85-115			
Vanadium	93.8	0.070	3.0	"	100		94	85-115			
Zinc	94.8	0.27	10	"	100		95	85-115			

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508978 - EPA 200 Series											
Matrix Spike (2508978-MS1)			**Source: 25J1210-03**		Prepared: 10/23/25 Analyzed: 10/24/25						
Antimony	112	0.34	6.0	µg/L	100	ND	112	70-130			
Arsenic	96.1	0.45	2.0	"	100	ND	96	70-130			
Beryllium	107	0.31	1.0	"	100	ND	107	70-130			
Cadmium	99.8	0.17	0.50	"	100	ND	100	70-130			
Chromium	96.5	0.14	1.0	"	100	0.843	96	70-130			
Cobalt	95.6	0.060	2.0	"	100	ND	96	70-130			
Copper	937	0.090	2.0	"	100	842	95	70-130			
Lead	98.8	0.020	5.0	"	100	0.192	99	70-130			
Molybdenum	100	0.11	2.0	"	100	0.268	100	70-130			
Nickel	102	0.13	2.0	"	100	2.52	100	70-130			
Selenium	98.9	0.75	5.0	"	100	ND	99	70-130			
Silver	156	0.070	0.50	"	100	59.3	97	70-130			
Thallium	96.9	0.030	1.0	"	100	ND	97	70-130			
Vanadium	95.8	0.070	3.0	"	100	ND	96	70-130			
Zinc	517	0.27	10	"	100	421	96	70-130			
Matrix Spike (2508978-MS2)			**Source: 25J1216-01**		Prepared: 10/23/25 Analyzed: 10/24/25						
Antimony	106	0.34	6.0	µg/L	100	ND	106	70-130			
Arsenic	98.1	0.45	2.0	"	100	4.62	94	70-130			
Beryllium	100	0.31	1.0	"	100	ND	100	70-130			
Cadmium	94.7	0.17	0.50	"	100	ND	95	70-130			
Chromium	91.7	0.14	1.0	"	100	ND	92	70-130			
Cobalt	93.0	0.060	2.0	"	100	ND	93	70-130			
Copper	97.3	0.090	2.0	"	100	0.164	97	70-130			
Lead	94.2	0.020	5.0	"	100	0.115	94	70-130			
Molybdenum	96.2	0.11	2.0	"	100	1.93	94	70-130			
Nickel	96.4	0.13	2.0	"	100	ND	96	70-130			
Selenium	92.8	0.75	5.0	"	100	ND	93	70-130			
Silver	93.5	0.070	0.50	"	100	ND	93	70-130			
Thallium	93.5	0.030	1.0	"	100	ND	94	70-130			
Vanadium	92.2	0.070	3.0	"	100	ND	92	70-130			
Zinc	99.0	0.27	10	"	100	4.81	94	70-130			

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2508978 - EPA 200 Series											
Batch 2508981 - EPA 200 Series											
Blank (2508981-BLK1)					Prepared & Analyzed: 10/23/25						
Calcium	ND	0.044	1.0	mg/L							
Magnesium	ND	0.043	1.0	"							
Barium	ND	1.6	20	µg/L							
Potassium	ND	0.13	1.0	mg/L							
Sodium	ND	0.029	1.0	"							
LCS (2508981-BS1)					Prepared & Analyzed: 10/23/25						
Calcium	5.16	0.044	1.0	mg/L	5.00		103	85-115			
Magnesium	5.17	0.043	1.0	"	5.00		103	85-115			
Barium	511	1.6	20	µg/L	500		102	85-115			
Potassium	5.13	0.13	1.0	mg/L	5.00		103	85-115			
Sodium	5.32	0.029	1.0	"	5.00		106	85-115			
Matrix Spike (2508981-MS1)			**Source: 25J1214-01**		Prepared & Analyzed: 10/23/25						
Calcium	16.4	0.044	1.0	mg/L	5.00	11.3	102	70-130			
Magnesium	5.85	0.043	1.0	"	5.00	0.684	103	70-130			
Barium	526	1.6	20	µg/L	500	12.5	103	70-130			
Potassium	6.29	0.13	1.0	mg/L	5.00	1.22	101	70-130			
Sodium	7.70	0.029	1.0	"	5.00	2.43	105	70-130			
Matrix Spike (2508981-MS2)			**Source: 25J1246-02**		Prepared & Analyzed: 10/23/25						
Calcium	5.11	0.044	1.0	mg/L	5.00	ND	102	70-130			
Magnesium	5.18	0.043	1.0	"	5.00	ND	104	70-130			
Barium	508	1.6	20	µg/L	500	ND	102	70-130			
Potassium	5.06	0.13	1.0	mg/L	5.00	ND	101	70-130			
Sodium	5.28	0.029	1.0	"	5.00	0.0554	104	70-130			

10/29/25 14:05

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy WQ-1, 1017.00
Project Number: [none]
Project Manager: Christina Buck

CLS Work Order #: 25J1216
COC #:

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2509090 - EPA 7470A											
Blank (2509090-BLK1)					Prepared: 10/27/25 Analyzed: 10/29/25						
Mercury	0.172	0.15	0.20	µg/L							J
LCS (2509090-BS1)					Prepared: 10/27/25 Analyzed: 10/29/25						
Mercury	5.38	0.15	0.20	µg/L	5.00		108	85-115			
Matrix Spike (2509090-MS1)			**Source: 25J1216-05**		Prepared: 10/27/25 Analyzed: 10/29/25						
Mercury	5.35	0.15	0.20	µg/L	5.00	0.155	104	70-130			
Matrix Spike (2509090-MS2)			**Source: 25J1344-01**		Prepared: 10/27/25 Analyzed: 10/29/25						
Mercury	5.30	0.15	0.20	µg/L	5.00	ND	106	70-130			
Matrix Spike Dup (2509090-MSD1)			**Source: 25J1216-05**		Prepared: 10/27/25 Analyzed: 10/29/25						
Mercury	5.21	0.15	0.20	µg/L	5.00	0.155	101	70-130	3	25	

10/29/25 14:05

Stillwater Sciences	Project: Lundy WQ-1, 1017.00	
2855 Telegraph Ave., Suite 400	Project Number: [none]	**CLS Work Order #: 25J1216**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a "MDL Report", thus if the report denotes an "ND" for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CHAIN OF CUSTODY CLS ID. NO. 251216 | of |

Report To:

Company: Stillwater Sciences

Address: 279 Cousteau Pl #400
Davis, CA 95618

Project Manager: Christina Buck, Elliott Allen

Email: cbuck@stillwatersci.com, eallen@stillwatersci.com

Project Name: Lundy WQ-1, 1017.00

Sampled By: Elliott Allen

Job Description:

Site Location:

Client Job Number:

Destination Laboratory

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

□ CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742
www.californialab.com

ANALYSIS REQUESTED

STATE UPLOAD □ YES □ NO

STATE SYSTEM #:

GEOTRACKER EDF REPORT □ YES □ NO

GLOBAL ID:

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Preservatives ↓	Metals	Cl, SO4, Alkalinity, TDS, NO3	Ammonia, TKN, Ortho-P, Total P	TSS	DOC	TOC	Nitrate+Nitrite, hardness as CaCO3	Oil & Grease
10/21	1400	WQ-LL-3 bot		Water	9			X	X	X	X	X	X	X	
	1330	WQ-LL-3 surf			10										X
		Duplicate			10										X
	1200	Field Blank			9										
	1230	Equipment Blank			9										

TURNAROUND TIME IN DAYS				SPECIAL INSTRUCTIONS
1	2	3	5	
				Metals: Sb, As, Ba,
				Be, Cd, Cr, Co, Cu,
				Pb, Hg, Mo, Ni, Se,
				Ag, Tl, V, Zn, Ca,
				Mg, K, Na
				Please j-flag data
				INVOICE TO:
				PO#
				QUOTE#

SUSPECTED CONSTITUENTS: See email comb between Elliott Allen + Scott Furnas for full analyte list

PRESERVATION: [1] = HCL [2] = HNO_3 [3] = COLD [4] = NaOH [5] = H_2SO_4 [6] = $Na_2S_2O_3$ [7] = Other

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Elliott Allen/SWS	10/22/25 1046		

RECEIVED AT LAB BY: DATE/TIME: 10/22/25 1046

CONDITIONS/COMMENTS: 5.8/5.6

SHIPPED BY: □ FED EX □ UPS □ OTHER AIR BILL #

APPENDIX D
IN SITU CALIBRATION LOGS

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Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s

Sampling Event Date(s): 4/29/25 - 5/1/2025

PRE-SAMPLING CALIBRATION

Date and time 4/28/25 18:00 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	18.7	1001	1000	
	1,413	18.9	--	1416	
DO (%)	79.7	12.6	79.9	79.7	**Baro=** 605.4mmHg @ WQ-LMC-8
DO (mg/L)*	8.44	12.6	--	8.45	*Check solubility table**
pH	pH4	19.3	4.03	4.00	
	pH 7	19.3	7.01	7.00	
	pH 10	18.8	10.02	10.00	
Turbidity	0.2	17.4	0.24	0.20	
	12.4	19.1	12.3	12.40	

POST-SAMPLING CALIBRATION CHECK

Date and time 4/29/25 14:00 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	14.9	1004	No	--	A	
	1,413	15.0	1419	No	--	A	
DO (%)	75.7	11.1	75.9	No	--	A	**Baro=** 575.2 mmHG
*DO (mg/L)	8.34	11.2	8.34	No	--	A	*Check solubility table**
pH	pH 4	15.2	4.05	No	--	A	
	pH 7	14.7	7.03	No	--	A	
	pH 10	13.9	10.06	No	--	A	
Turbidity	0.2	15.2	0.34	No	--	A	
	12.40	15.3	12.48	No	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

**DO Recalibration Completed at WQ-MCBR-4

576.7 mmHg, 8.7^o C, Pre-77.7%; Post-75.9%; mg/L check-8.82mg/L

Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s (23H105737)

Sampling Event Date(s): 4/29/25 - 5/1/2025

PRE-SAMPLING CALIBRATION

Date and time 4/28/25 15:00 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	14.6	1003	1000	
	1,413	15.4	--	1416	
DO (%)	75	18.3	75.0	75.5	**Baro=** 573.9 mmHg
DO (mg/L)*	--	--	--	--	*Check solubility table**
pH	pH4	15.2	4.05	4.00	
	pH 7	14.7	7.03	7.00	
	pH 10	13.9	10.06	10.00	
Turbidity	0.2	15.2	0.34	0.20	
	12.4	15.3	12.48	12.40	

POST-SAMPLING CALIBRATION CHECK

Date and time 4/30/25 14:00 Name EFA

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	16.115	999	No	--	A	
	1,413	16.245	1414	No	--	A	
DO (%)	75	16.930	74.5	No	--	A	**Baro=** 571.6 mmHg
*DO (mg/L)	--	--	7.21	--	--	--	*Check solubility table**
pH	pH 4	15.969	4.07	No	--	A	
	pH 7	15.796	7.00	No	--	A	
	pH 10	15.985	10.01	No	--	A	
Turbidity	0.2	15.710	0.47	No	--	A	
	12.40	15.941	12.66	No	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

Stillwater Sciences

Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s

Sampling Event Date(s): 6/9/25

PRE-SAMPLING CALIBRATION

Date and time 6/9/25 14:00 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	22.65	1001	1000	
	1,413	22.73	--	1417	
DO (%)	78.3	24.0	78.1	78.3	**Baro=** 595.0 mmHg
DO (mg/L)*	6.58	24.0	--	6.58	*Check solubility table**
pH	pH4	22.6	4.14	4.00	
	pH 7	22.5	7.08	7.00	
	pH 10	21.9	10.07	10.00	
Turbidity	0.2	24.2	0.09	0.20	
	12.4	22.5	13.10	12.40	

POST-SAMPLING CALIBRATION CHECK

Date and time 6/9/25 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	21.8	1000	No	--	A	
	1,413	22.0	1415	No	--	A	
DO (%)	77.1	24.0	76.5	No	--	A	**Baro=** 585.9 mmHg
*DO (mg/L)	6.38	24.2	6.38	No	--	A	*Check solubility table**
pH	pH 4	22.9	4.10	No	--	A	
	pH 7	22.9	7.02	No	--	A	
	pH 10	22.4	9.99	No	--	A	
Turbidity	0.2	24.0	0.17	No	--	A	
	12.40	22.1	12.87	No	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

Stillwater Sciences

Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s

Sampling Event Date(s): 7/15/25

PRE-SAMPLING CALIBRATION

Date and time 7/14/25 21:30 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	25.6	1005	1000	
	1,413	25.7	--	1419	
DO (%)	75.7	22.4	73.8	75.7	**Baro= 575.5 mmHG**
DO (mg/L)*	6.50	22.5	--	6.57	*Check solubility table**
pH	pH4	26.2	4.04	4.00	
	pH 7	26.2	6.99	7.00	
	pH 10	26.1	9.99	10.00	
Turbidity	0.2	21.4	0.54	0.20	
	12.4	26.6	12.21	12.40	

POST-SAMPLING CALIBRATION CHECK

Date and time 7/15/25 22:00 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	26.4	1007	No	--	A	
	1,413	26.6	1420	No	--	A	
DO (%)	78.0	21.9	78.5	No	--	A	**Baro=** 590.5 mmHg
*DO (mg/L)	6.76	21.9	6.78	No	--	A	*Check solubility table**
pH	pH 4	25.7	4.05	No	--	A	
	pH 7	25.4	7.01	No	--	A	
	pH 10	25.4	9.98	No	--	A	
Turbidity	0.2	20.9	0.32	No	--	A	
	12.40	26.1	12.51	No	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

Stillwater Sciences

Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s

Sampling Event Date(s): 8/18/25

PRE-SAMPLING CALIBRATION

Date and time 8/18/25 09:30 Name MTS

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	20.7	998	1000	
	1,413	20.8	--	1410	
DO (%)	75.7	25.5	75.1	75.7	**Baro= 575.6 mmHg**
DO (mg/L)*	6.2	25.5	--	6.18	*Check solubility table**
pH	pH 4	23.2	4.41	4.00	
	pH 7	23.5	7.38	7.00	
	pH 10	23.3	10.37	10.00	
Turbidity	0.2	21.5	0.55	0.20	
	12.4	20.6	12.75	12.40	

POST-SAMPLING CALIBRATION CHECK

Date and time 8/19/25 07:00 Name EFA

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	25.574	1002	No	--	A	
	1,413	25.561	1414	No	--	A	
DO (%)	75.9	19.8	76.2	No	--	A	
*DO (mg/L)	6.92	19.8	6.91	No	--	A	*Check solubility table**
pH	pH 4	20.1	4.19	No	--	A	
	pH 7	20.3	7.37	No	--	Q	
	pH 10	20.3	10.34	No	--	Q	
Turbidity	0.2	20.9	0.24	No	--	A	
	12.40	19.5	12.29	No	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

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Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s

Sampling Event Date(s): 8/19/25

PRE-SAMPLING CALIBRATION

Date and time 8/19/25 07:00 Name EFA

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	20.589	1001	1000	
	1,413	19.354	1412	1413	
DO (%)	75.9	19.8	76.2	75.9	**Baro= 576.6 mmHg**
DO (mg/L)*	6.92	19.8	6.91	6.92	*Check solubility table**
pH	pH 4	20.1	4.19	4.00	
	pH 7	20.3	7.37	7.00	
	pH 10	20.3	10.34	10.00	
Turbidity	0.2	20.9	0.24	0.2	
	12.4	19.5	12.29	12.4	

POST-SAMPLING CALIBRATION CHECK

Date and time 8/19/25 16:00 Name EFA

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	23.908	1005	No	--	A	
	1,413	28.808	1415	No	--	A	
DO (%)	75.8	27.3	76.1	No	--	A	
*DO (mg/L)	6.04	27.3	6.04	No	--	A	*Check solubility table**
pH	pH 4	25.205	4.39	No	--	Q	
	pH 7	23.936	7.07	No	--	A	
	pH 10	24.891	9.88	No	--	A	
Turbidity	0.2	16.978	0.19	No	--	A	
	12.40	24.068	12.32	No	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

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Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: Exo 2s

Sampling Event Date(s): 8/25/25

PRE-SAMPLING CALIBRATION

Date and time 8/25/25 15:45 Name _____

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	25.6	976	1000	
	1,413	22.6	1386	--	
DO (%)	76	19.9	102.1	75.9	**Baro=** 577.0 mmHg
DO (mg/L)*	6.83	19.9	--	6.87	*Check solubility table**
pH	pH4	22.9	4.22	4.00	
	pH 7	22.6	7.21	7.01	
	pH 10	20.8	10.30	10.05	
Turbidity	0.2	--	--	--	
	12.4	--	--	--	

POST-SAMPLING CALIBRATION CHECK

Date and time 8/26/25 10:15 Name_____

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	15.2	1026	No	--	A	
	1 ,413	15.1	1428	No	--	A	
DO (%)	79	16.47	80.3	No	--	A	**Baro=** 598.00 mmHg
*DO (mg/L)	7.67	16.47	7.83	No	--	A	*Check solubility table**
pH	pH 4	15.5	4.17	No	--	A	
	pH 7	15.3	7.13	No	--	A	
	pH 10	15.8	10.19	No	--	A	
Turbidity	0.2	--	-	---	--	--	
	12.40	--	--	--	--	--	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

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Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: YSI EXO 2

Sampling Event Date(s): 9/10/25

PRE-SAMPLING CALIBRATION

Date and time 9/9/25 15:00 Name EFA

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	23.217	984	1000	
	1,413	23.211	--	1411	
DO (%)	75.1	20.1	76.7	75.1	**Baro= 570.8 mmHg**
DO (mg/L)*	6.77	20.1	6.62	--	*Check solubility table**
pH	pH4	23.1	3.97	4.00	
	pH 7	23.0	6.98	7.00	
	pH 10	23.0	10.07	10.00	
Turbidity	0.3	23.4	0.00	0.30	
	12.4	22.6	12.57	12.40	

POST-SAMPLING CALIBRATION CHECK

Date and time 9/10/25 Name CSM

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	18.654	998	N	--	A	
	1,413	18.809	1407	N	--	A	
DO (%)	77.9	15.8	77.0	N	--	A	**Baro=** 592.2 mmHg
*DO (mg/L)	7.8	15.705	7.64	N	--	A	*Check solubility table**
pH	pH 4	18.747	4.18	N	--	A	
	pH 7	18.892	7.11	N	--	A	
	pH 10	18.788	10.15	N	--	A	
Turbidity	0.3	18.465	0.55	N	--	A	
	12.40	19.432	12.23	N	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

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Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: EXO 2

Sampling Event Date(s): 9/18/25

PRE-SAMPLING CALIBRATION

Date and time 9/17/25 14:42 Name CSM

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	23.619	997	1000	
	1,413	23.748	1415	--	
DO (%)	75.5	24.8	75.3	75.5	
DO (mg/L)*	--	--	--	--	*Check solubility table**
pH	pH4	23.4	3.99	4.00	
	pH 7	23.5	7.05	7.00	
	pH 10	23.5	10.16	10.00	
Turbidity	0.3	22.9	0.48	0.3	
	12.4	22.3	12.31	12.4	

POST-SAMPLING CALIBRATION CHECK

Date and time 9/18/25 18:42 Name CSM

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	21.515	996	N	--	A	
	1,413	21.670	1400	N	--	A	
DO (%)	78.3	15.7	77.8	N	--	A	**Baro=** 595.0 mmHg
*DO (mg/L)	--	--	--	N	--	A	*Check solubility table**
pH	pH 4	21.695	4.08	N	--	A	
	pH 7	22.000	6.99	N	--	A	
	pH 10	21.202	9.96	N	--	A	
Turbidity	0.3	22.532	0.65	N	--	A	
	12.40	21.857	12.25	N	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

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Water Quality EXO Sonde Calibration Log

Project: 1017 Lundy WQ-1

Unit ID: YSI Exo 2s

Sampling Event Date(s): 10/20/25

PRE-SAMPLING CALIBRATION

Date and time 10/20/25 07:15 Name EFA

Parameter	Std. Value	Std. Temp (^{0}C)	Pre-Cal Value	Post-Cal Value	Notes
Conductivity (uS/cm @ 25°C)	1,000	20.2	1027	1000	
	1,413	20.3	1377	--	
DO (%)	80	23.3	84.5	79.7	**Baro= 605.9 mmHg**
DO (mg/L)*	6.7	--	--	6.79	*Check solubility table**
pH	pH4	20.2	3.95	4.00	
	pH 7	20.2	6.86	7.02	
	pH 10	20.2	9.87	10.06	
Turbidity	0.3	21.0	0.93	0.3	
	12.4	20.7	12.64	12.4	

POST-SAMPLING CALIBRATION CHECK

Date and time 10/20/25 019:50 Name CSM

Parameter	Std. Value	Std. Temp (^{0}C)	Post-Sampling Value	Re-Cal Yes or No?	Post-Cal Value	MQO Code[1]	Notes
Conductivity (uS/cm @ 25°C)	1,000	17.262	1017	N	--	A	
	1,413	17.561	1388	N	--	A	
DO (%)	78.9	16.2	78.4	N	--	A	**Baro=** 599.7 mmHg
*DO (mg/L)	7.7	16.2	7.71	N	--	A	*Check solubility table**
pH	pH 4	17.757	4.00	N	--	A	
	pH 7	17.492	7.05	N	--	A	
	pH 10	17.685	10.19	N	--	A	
Turbidity	0.3	13.420	0.81	N	--	A	
	12.40	13.520	12.67	N	--	A	

[1] See Table 1

Table 1: Measurement Quality Objectives – comparisons are between Post-sampling Value and Post-calibration Value

Parameter	Units	Accept	Qualify	Reject
Dissolved oxygen	% saturation	≤ 5%	> 5% and ≤ 10%	> 10%
Conductivity	uS/cm	≤ 5%	> 5% and ≤ 15%	> 15%
pH	s.u.	≤ 0.2	> 0.2 and ≤ 0.5	> 0.5
Turbidity	NTU	≤ 5%	> 5% and ≤ 10%	> 10%

APPENDIX E
ANALYTICAL SAMPLING
QUALITY ASSURANCE/QUALITY CONTROL RESULTS

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Table E-1. Field Blank and Equipment Blank Laboratory Analytical Results, 2025 (analyte concentrations detected in blanks are bold)

Sample		Field Blank					Equipment Blank		
Date (2025)		4/29	6/9	7/15	8/19	10/21	4/30	8/18	10/21
General Chemistry and Minerals	Calcium (mg/L)	<0.044	<0.044	**0.42^{J}**	<0.044	<0.044	0.14^{J}	<0.044	<0.044
	Chloride (mg/L)	**0.29**	**0.35**	**0.35^{J}**	**0.32**	<0.026	**20**	**31**	**31**
	Magnesium (mg/L)	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
	Sulfate as SO_4 (mg/L)	<0.038	**0.25**	**0.13^{J}**	<0.038	<0.038^{Q} C-2H	**0.17^{J}**	**0.13$^{QC-2H,J}$**	**0.13$^{QC-2H,J}$**
	Total organic carbon, dissolved (mg/L)	<0.54	<0.54	<0.54	**0.54**	<0.54	<0.54	**0.80^{J}**	**0.80^{J}**
	Total organic carbon (mg/L)	<0.54	<0.54	<0.54	**0.56**	<0.54	<0.54	**0.87^{J}**	**0.87^{J}**
	Potassium (mg/L)	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
	Sodium (mg/L)	<0.029	**0.44**	**0.31^{J}**	<0.029	<0.029	**0.39^{J}**	<0.029	<0.029
	Hardness (mg/L)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
	Total alkalinity (mg/L)	3.0	3.8	5.2	2.6	1.6^{J}	<1.0	<1.0	<1.0
	Bicarbonate as $CaCO_3$ (mg/L)	3.0	3.8	5.2	2.6	1.6^{J}	<0.50	<0.50	<0.50
	Carbonate as $CaCO_3$ (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Hydroxide as $CaCO_3$ (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Total dissolved solids (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Total suspended solids (mg/L)	**6.2**	<3.1^{QRL-2}	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Nutrients and Productivity	Ammonia as N (mg/L)	**0.027**	**0.089**	**0.094^{J}**	**0.025**	**0.070^{J}**	<0.025	<0.025	<0.025
	Nitrate+nitrite as N (mg/L)	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055
	Total Kjeldahl nitrogen (mg/L)	**0.12**	**0.089**	**0.15^{J}**	**0.068**	**0.13^{J}**	**0.14^{J}**	**0.20^{J}**	**0.20^{J}**
	Orthophosphate as PO_4 (mg/L)	<0.0051	<0.0051	**0.064^{J}**	<0.0051	**0.083^{J}**	<0.0051	<0.0051	**0.071^{J}**

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Sample		Field Blank					Equipment Blank		
Date (2025)		4/29	6/9	7/15	8/19	10/21	4/30	8/18	10/21
	Total phosphorus as P (mg/L)	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	Chlorophyll-*a* (µg/L)	<5.0[H]	<5.0	<5.0	<5.0[H]	<5.0	<5.0[H]	<5.0	<5.0
Metals	Antimony (µg/L)	<0.34	<0.34	**0.36[J]**	<0.34	<0.34	<0.34	<0.34	<0.34
	Arsenic (µg/L)	**0.53**	<0.45	<0.45	<0.45	<0.45	**0.52[J]**	<0.45	<0.45
	Barium (µg/L)	<1.6	<1.6	**2.1[J]**	<1.6	<1.6	<1.6	<1.6	<1.6
	Beryllium (µg/L)	<0.31[QC-2H]	<0.31	<0.31	<0.31[QC-2H]	<0.31	<0.31	<0.31[QC-2H]	<0.31
Metals	Cadmium (µg/L)	<0.17	<0.17	**0.19[J]**	<0.17	<0.17	**0.19[J]**	<0.17	<0.17
	Chromium (µg/L)	<0.14	**0.47**	**0.55[J]**	**0.52**	**0.24[J]**	**0.44[J]**	**0.97[J]**	**0.27[J]**
	Cobalt (µg/L)	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
	Copper (µg/L)	<0.090	**0.090**	**0.41[J]**	<0.090	<0.090	**0.20[J]**	<0.090	<0.090
	Lead (µg/L)	<0.020	<0.020	**0.054[J]**	<0.020	<0.020	**0.15[J]**	<0.020	**0.087[J]**
	Mercury (µg/L)	<0.15	<0.15	<0.15	<0.15	<0.15[QC-2H]	<0.15	<0.15	0.15[QC-2H,J]
	Molybdenum (µg/L)	**0.27**	**0.21**	**1.0[J]**	<0.11	**0.16[J]**	**0.38[J]**	<0.11	<0.11
	Nickel (µg/L)	<0.13	**0.19**	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
	Selenium (µg/L)	<0.75	<0.75	<0.75	**2.2**	<0.75	<0.75	<0.75	<0.75
	Silver (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
	Thallium (µg/L)	**0.054**	**0.050**	**0.21[J]**	<0.030	<0.030	**0.10[J]**	<0.030	<0.030
	Vanadium (µg/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
	Zinc (µg/L)	<0.27	**1.3**	**3.5[J]**	**1.6**	<0.27	**2.1[J]**	**0.67[J]**	**8.8[J]**

µg/L = micrograms per liter; < indicates results were less than the method detection limit (i.e., results were reported as non-detect in laboratory reports); mg/L = milligrams per liter

Notes:

[J] Detected, but below the reporting limit; therefore, the result is an estimated concentration.

[QRL-2] Elevated reporting limits due to limited sample volume.

[H] Sample was analyzed out of hold time.

[QC-2H] The recovery of one continuing calibration verification was greater than the acceptance limit. However, all analytes in the associated samples were not detected; therefore, a reanalysis was not performed.

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Table E-2. Results for Field Duplicate Samples Collected and Relative Percent Difference,[1] 2025 (relative percent differences greater than 20 percent are bold)

Site ID		LMC-8	LMC-8 (Duplicate)	RPD	MCRD-6	MCRD-6 (Duplicate)	RPD	MCBR-5	MCBR-5 (Duplicate)	RPD	LL-3	LL-3 (Duplicate)	RPD
2025 Date		4/29			6/9			7/15			**10/21**		
General Chemistry and Minerals	Calcium (mg/L)	10	10	0	9.3	8.8	-6	7.9	8.6	8	10.00	10.00	0
	Chloride (mg/L)	0.53	0.52	-2	0.44	0.44	0	0.47	0.47[J]	0	0.45	0.44	-2
	Magnesium (mg/L)	0.91	0.92	1	0.39	0.36	-8	0.86	0.88[J]	2	0.44	0.52	17
	Sulfate as SO_4 (mg/L)	12	12	0	12	12	0	11	11	0	15.00	15.00	0
	Total organic carbon, dissolved (mg/L)	<0.54	<0.54	NA	<0.54	<0.54	NA	<0.54	<0.54	NA	<0.54	<0.54	NA
	Total organic carbon (mg/L)	<0.54	0.71	NA	0.94	1.1	16	<0.54	<0.54	NA	<0.54	<0.54	NA
	Potassium (mg/L)	0.63	0.95	**41**	0.75	0.73	-3	0.72	0.75[J]	4	0.88	0.86	-2
	Sodium (mg/L)	2.9	3.0	3	1.4	1.3	-7	2.5	2.7	8	1.70	1.80	6
	Hardness (mg/L)	29	29	0	25	23	-6	23	25	8	28.00	28.00	0
	Total alkalinity (mg/L)	25	25	0	16	17	6	22	26	17	18.00	18.00	0
	Bicarbonate as $CaCO_3$ (mg/L)	25	25	0	16	17	6	22	26	17	18.00	18.00	0
	Carbonate as $CaCO_3$ (mg/L)	<0.50	<0.50	NA	<0.50	<0.50	NA	<0.50	<0.50	NA	<0.50	<0.50	NA
	Hydroxide as $CaCO_3$ (mg/L)	<0.50	<0.50	NA	<0.50	<0.50	NA	<0.50	<0.50	NA	<0.50	<0.50	NA
	Total dissolved solids (mg/L)	53	52	-2	42	44	5	51	49	-4	56.00	56.00	0
	Total suspended solids (mg/L)	5.6	5.6	0	<2.8	<2.8[QRL-2]	NA	<2.5	4.1	NA	<2.5	<2.5	NA
Nutrients and productivity	Ammonia as N (mg/L)	0.050	0.057	13	0.068	0.11	**47**	<0.025	0.038[J]	NA	0.10	0.09	-13
	Nitrate as N (mg/L)	<0.053	<0.053	NA	<0.053	<0.053	NA	<0.053	<0.053	NA	<0.053	<0.053	NA
	Total Kjeldahl nitrogen (mg/L)	0.17	0.23	**30**	0.24	0.089	**-92**	0.23	0.52	**77**	0.18	0.17	-6
	Orthophosphate as PO_4 (mg/L)	<0.0051	<0.0051	NA	<0.0051	<0.0051	NA	0.12	0.11[J]	-9	0.07	0.08	16
	Total Phosphorus as P (mg/L)	<0.023	<0.023	NA	<0.023	<0.023	NA	<0.023	0.028[J]	NA	<0.023	<0.023	NA
	Chlorophyll-*a* (µg/L)	<5.0[H]	<5.0[H]	NA	7.2	7.1	-1	<5.0	<5.0	NA	<5.0	<5.0	NA
Metals	Antimony (µg/L)	<0.34	<0.34	NA	<0.34	<0.34	NA	<0.34	<0.34	NA	<0.34	<0.34	NA
	Arsenic (µg/L)	1.4	2.7	**63**	4.3	2.9	**-39**	3.0	2.4	**-22**	5.30	5.10	-4
	Barium (µg/L)	25	26	4	8.4	7.7	-9	26	27	4	7.30	9.0	21

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Site ID		LMC-8	LMC-8 (Duplicate)	RPD	MCRD-6	MCRD-6 (Duplicate)	RPD	MCBR-5	MCBR-5 (Duplicate)	RPD	LL-3	LL-3 (Duplicate)	RPD
2025 Date		4/29			6/9			7/15			**10/21**		
Metals	Beryllium (µg/L)	<0.31	<0.31[QC-2H]	NA	<0.31	<0.31[QC-2H]	NA	<0.31	<0.31	NA	<0.31	<0.31	NA
	Cadmium (µg/L)	<0.17	<0.17	NA	<0.17	<0.17	NA	<0.17	<0.17	NA	<0.17	<0.17	NA
	Chromium (µg/L)	<0.14	<0.14	NA	0.24	<0.14	NA	0.35	0.39[J]	11	<0.14	<0.14	NA
	Cobalt (µg/L)	<0.060	<0.060	NA	<0.060	<0.060	NA	0.060	<0.060	NA	<0.060	<0.060	NA
	Copper (µg/L)	0.40	0.41	2	0.27	0.14	**-63**	0.46	0.49[J]	6	0.12	0.12	0
	Lead (µg/L)	0.19	0.18	-5	0.12	0.11	-9	0.23	0.20[J]	-14	0.04	0.03	**-39**
	Mercury (µg/L)	<0.15	<0.15	NA	<0.15	<0.15	NA	<0.15	<0.15	NA	<0.15	<0.15	NA
	Molybdenum (µg/L)	2.1	2.3	9	1.2	1.3	8	2.5	2.1	-17	2.40	2.00	-18
	Nickel (µg/L)	<0.13	<0.13	NA	0.17	<0.13	NA	<0.13	<0.13	NA	<0.13	<0.13	NA
	Selenium (µg/L)	<0.75	1.4	NA	<0.75	<0.75	NA	1.5	0.94[J]	**-46**	1.10	<0.75	NA
	Silver (µg/L)	<0.070	<0.070	NA	<0.070	<0.070	NA	<0.070	<0.070	NA	<0.070	<0.070	NA
	Thallium (µg/L)	0.047	0.037	**-24**	<0.030	0.048	NA	0.12	0.079[J]	**-41**	0.12	0.04	**-110**
	Vanadium (µg/L)	0.40	0.23	**-54**	<0.070	<0.070	NA	<0.070	<0.070	NA	<0.070	<0.070	NA
	Zinc (µg/L)	0.75	0.77	3	1.2	0.94	**-24**	4.0	3.8[J]	-5	<0.27	<0.27	NA

% = percent; µg/L = micrograms per liter; < indicates results were less than the method detection limit (i.e., results were reported as non-detect in laboratory reports); ID = identification; mg/L = milligrams per liter; NA = not applicable; ND = not detected; RPD = relative percent difference

Notes:

[1] RPD is the percentage of the relative difference between two sample concentrations (C1 = sample concentration, C2 = duplicate concentration) that are greater than the minimum reporting limit, as follows: RPD=((C_1-C_2)x100%)/((C_1+C_2)/2).

[J] Detected, but below the reporting limit; therefore, the result is an estimated concentration.

[QRL-2] Elevated reporting limits due to limited sample volume.

[H] Samples were analyzed outside of hold time.

[QC-2H] The recovery of one continuing calibration verification was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore, a reanalysis was not performed.

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APPENDIX F
TABULATED RESERVOIR IN SITU DATA AND VERTICAL PROFILES

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Table F-1. Reservoir In Situ Water Quality Data, 2025

Reservoir	Date (2025)	Depth (m)	Elevation (m)	Temperature (°C)	Dissolved Oxygen[a] (% Sat.)	Specific Conductance (µS/cm)	pH (s.u.)	Turbidity (NTU)	Pressure (mmHg)	Site ID of Water Sample Collected
Lundy Lake	4/30	0	2372	9.0	108	74	7.7	1.0	574.2	LL-3 (Surface)
Lundy Lake	4/30	1	2371	9.0	108	74	7.8	1.0	574.2	
Lundy Lake	4/30	2	2370	9.0	108	74	7.8	1.0	574.2	
Lundy Lake	4/30	3	2369	8.9	108	73	7.8	1.0	574.2	
Lundy Lake	4/30	4	2368	8.6	108	73	7.8	1.1	574.2	
Lundy Lake	4/30	5	2367	8.3	108	73	7.8	1.1	574.2	
Lundy Lake	4/30	6	2366	8.1	108	74	7.8	1.1	574.2	
Lundy Lake	4/30	7	2365	8.0	107	73	7.8	1.1	574.2	
Lundy Lake	4/30	8	2364	7.9	106	74	7.7	1.1	574.2	
Lundy Lake	4/30	9	2363	7.8	105	74	7.6	1.2	574.2	
Lundy Lake	4/30	10	2362	7.7	104	74	7.6	1.2	574.2	
Lundy Lake	4/30	11	2361	7.6	102	74	7.5	1.3	574.2	LL-3 (Bottom)
Lundy Lake	4/30	12	2360	7.5	101	74	7.4	1.4	574.2	
Lundy Lake	7/15	0	2379	17.6	108	60	7.5	0.4	575.5	
Lundy Lake	7/15	1	2378	17.5	109	60	7.5	0.4	575.5	
Lundy Lake	7/15	2	2377	17.5	109	60	7.5	0.4	575.5	
Lundy Lake	7/15	3	2376	16.1	116	60	7.7	0.7	575.5	
Lundy Lake	7/15	4	2375	15.1	114	61	7.7	0.8	575.5	
Lundy Lake	7/15	5	2374	14.3	116	59	7.8	0.8	575.5	
Lundy Lake	7/15	6	2373	13.7	115	59	7.7	0.8	575.5	
Lundy Lake	7/15	7	2372	13.0	114	59	7.6	0.8	575.5	
Lundy Lake	7/15	8	2371	12.1	111	59	7.5	0.8	575.5	
Lundy Lake	7/15	9	2370	11.7	108	58	7.3	0.8	575.5	

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Reservoir	Date (2025)	Depth (m)	Elevation (m)	Temperature (°C)	Dissolved Oxygen[a] (% Sat.)	Specific Conductance (µS/cm)	pH (s.u.)	Turbidity (NTU)	Pressure (mmHg)	Site ID of Water Sample Collected
Lundy Lake	7/15	10	2369	11.1	100	58	6.9	0.8	575.5	
Lundy Lake	7/15	11	2368	10.9	95	58	6.7	0.8	575.5	
Lundy Lake	7/15	12	2367	10.8	93	58	6.7	0.8	575.5	
Lundy Lake	7/15	13	2366	10.6	85	59	6.6	0.9	575.5	
Lundy Lake	7/15	14	2365	10.6	80	59	6.5	0.8	575.5	
Lundy Lake	7/15	15	2364	10.4	73	59	6.4	0.9	575.5	
Lundy Lake	7/15	16	2363	10.3	69	59	6.4	1.0	575.5	
Lundy Lake	8/18	0	2375	18.1	106	65	7.6	0.1	575.0	LL-3 (Surface)
Lundy Lake	8/18	1	2374	18.1	106	65	7.5	0.1	575.0	
Lundy Lake	8/18	2	2373	18.1	106	65	7.5	0.1	575.0	
Lundy Lake	8/18	3	2372	18.0	106	65	7.5	0.1	575.0	
Lundy Lake	8/18	4	2371	17.5	107	65	7.4	0.2	575.0	
Lundy Lake	8/18	5	2370	16.9	107	65	7.2	0.3	575.0	
Lundy Lake	8/18	6	2369	16.8	107	65	7.2	0.2	575.0	
Lundy Lake	8/18	7	2368	14.8	105	63	7.1	0.5	575.0	
Lundy Lake	8/18	8	2367	13.5	97	61	6.8	0.6	575.0	
Lundy Lake	8/18	9	2366	12.4	82	60	6.7	0.7	575.0	
Lundy Lake	8/18	10	2365	11.9	60	61	6.4	0.7	575.0	
Lundy Lake	8/18	11	2364	11.7	53	61	6.4	0.7	575.0	
Lundy Lake	8/18	12	2363	11.6	45	61	6.3	0.7	575.0	
Lundy Lake	8/18	13	2362	11.4	35	62	6.4	0.9	575.0	LL-3 (Bottom)
Lundy Lake	8/18	14	2361	11.4	32	62	6.3	0.9	575.0	
Lundy Lake	8/29	0	2374	17.5	110	67	7.6	-	577.3	
Lundy Lake	8/29	1	2373	17.5	109	67	7.6	-	577.3	
Lundy Lake	8/29	2	2372	17.6	109	67	7.6	-	577.3	

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Reservoir	Date (2025)	Depth (m)	Elevation (m)	Temperature (°C)	Dissolved Oxygen[a] (% Sat.)	Specific Conductance (µS/cm)	pH (s.u.)	Turbidity (NTU)	Pressure (mmHg)	Site ID of Water Sample Collected
Lundy Lake	8/29	3	2371	17.4	108	67	7.5	-	577.3	
Lundy Lake	8/29	4	2370	17.1	109	67	7.3	-	577.3	
Lundy Lake	8/29	5	2369	15.7	104	67	6.7	-	577.3	
Lundy Lake	8/29	6	2368	14.4	97	64	6.3	-	577.3	
Lundy Lake	8/29	7	2367	14.3	96	64	6.2	-	577.3	
Lundy Lake	8/29	8	2366	13.6	89	63	6.1	-	577.3	
Lundy Lake	8/29	9	2365	13.1	81	63	6.0	-	577.3	
Lundy Lake	8/29	10	2364	12.5	57	63	6.2	-	577.3	
Lundy Lake	8/29	11	2363	12.1	48	63	6.1	-	577.3	
Lundy Lake	8/29	12	2362	11.9	40	69	5.8	-	577.3	
Lundy Lake	8/29	13	2361	11.8	34	69	5.9	-	577.3	
Lundy Lake	9/10	0	2374	14.9	102	67	7.6	0.8	571.0	
Lundy Lake	9/10	1	2373	14.9	102	67	7.5	0.8	571.0	
Lundy Lake	9/10	2	2372	14.8	102	67	7.6	0.8	571.0	
Lundy Lake	9/10	3	2371	14.6	102	67	7.5	0.8	571.0	
Lundy Lake	9/10	4	2370	14.5	101	67	7.5	0.8	571.0	
Lundy Lake	9/10	5	2369	14.4	100	67	7.4	0.9	571.0	
Lundy Lake	9/10	6	2368	14.2	99	67	7.3	0.9	571.0	
Lundy Lake	9/10	7	2367	14.2	98	67	7.3	1.0	571.0	
Lundy Lake	9/10	8	2366	13.6	84	66	6.9	1.0	571.0	
Lundy Lake	9/10	9	2365	12.2	25	65	6.5	1.2	571.0	
Lundy Lake	9/10	10	2364	12.0	13	65	6.4	1.4	571.0	
Lundy Lake	9/10	11	2363	12.0	11	65	6.2	1.5	571.0	
Lundy Lake	9/18	0	2374	15.3	105	68	7.6	0.7	574.0	LL-3 (Surface)
Lundy Lake	9/18	1	2373	15.3	106	68	7.6	0.8	574.0	

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Reservoir	Date (2025)	Depth (m)	Elevation (m)	Temperature (°C)	Dissolved Oxygen[a] (% Sat.)	Specific Conductance (µS/cm)	pH (s.u.)	Turbidity (NTU)	Pressure (mmHg)	Site ID of Water Sample Collected
Lundy Lake	9/18	2	2372	15.3	106	67	7.6	0.9	574.0	
Lundy Lake	9/18	3	2371	15.2	105	67	7.5	0.8	574.0	
Lundy Lake	9/18	4	2370	14.8	104	68	7.5	0.8	574.0	
Lundy Lake	9/18	5	2369	14.4	104	68	7.4	0.8	574.0	
Lundy Lake	9/18	6	2368	14.1	103	68	7.4	0.8	574.0	
Lundy Lake	9/18	7	2367	14.0	102	68	7.3	0.9	574.0	
Lundy Lake	9/18	8	2366	13.6	95	68	7.1	0.9	574.0	
Lundy Lake	9/18	9	2365	13.1	70	67	6.9	1.1	574.0	
Lundy Lake	9/18	10	2364	13.0	61	67	6.7	1.2	574.0	
Lundy Lake	9/18	11	2363	12.8	48	67	6.5	1.2	574.0	
Lundy Lake	9/18	12	2362	12.6	35	67	6.5	1.2	574.0	LL-3 (Bottom)
Lundy Lake	9/18	13	2361	12.5	29	67	6.4	1.3	574.0	
Lundy Lake	10/21	0	2373	10.5	99	67	7.5	1.0	577.0	LL-3 (Surface)
Lundy Lake	10/21	1	2372	9.9	98	67	7.5	1.1	577.0	
Lundy Lake	10/21	2	2371	9.8	98	67	7.5	1.1	577.0	
Lundy Lake	10/21	3	2370	9.7	98	67	7.5	1.1	577.0	
Lundy Lake	10/21	4	2369	9.7	98	67	7.5	1.1	577.0	
Lundy Lake	10/21	5	2368	9.3	97	67	7.2	1.1	577.0	
Lundy Lake	10/21	6	2367	9.5	96	67	6.8	1.1	577.0	
Lundy Lake	10/21	7	2366	9.4	95	67	6.7	1.2	577.0	
Lundy Lake	10/21	8	2365	9.3	94	67	6.7	1.2	577.0	
Lundy Lake	10/21	9	2364	9.3	93	67	6.6	1.1	577.0	
Lundy Lake	10/21	10	2363	9.2	93	68	6.6	1.2	577.0	
Lundy Lake	10/21	11	2362	9.1	92	68	6.6	1.2	577.0	LL-3 (Bottom)

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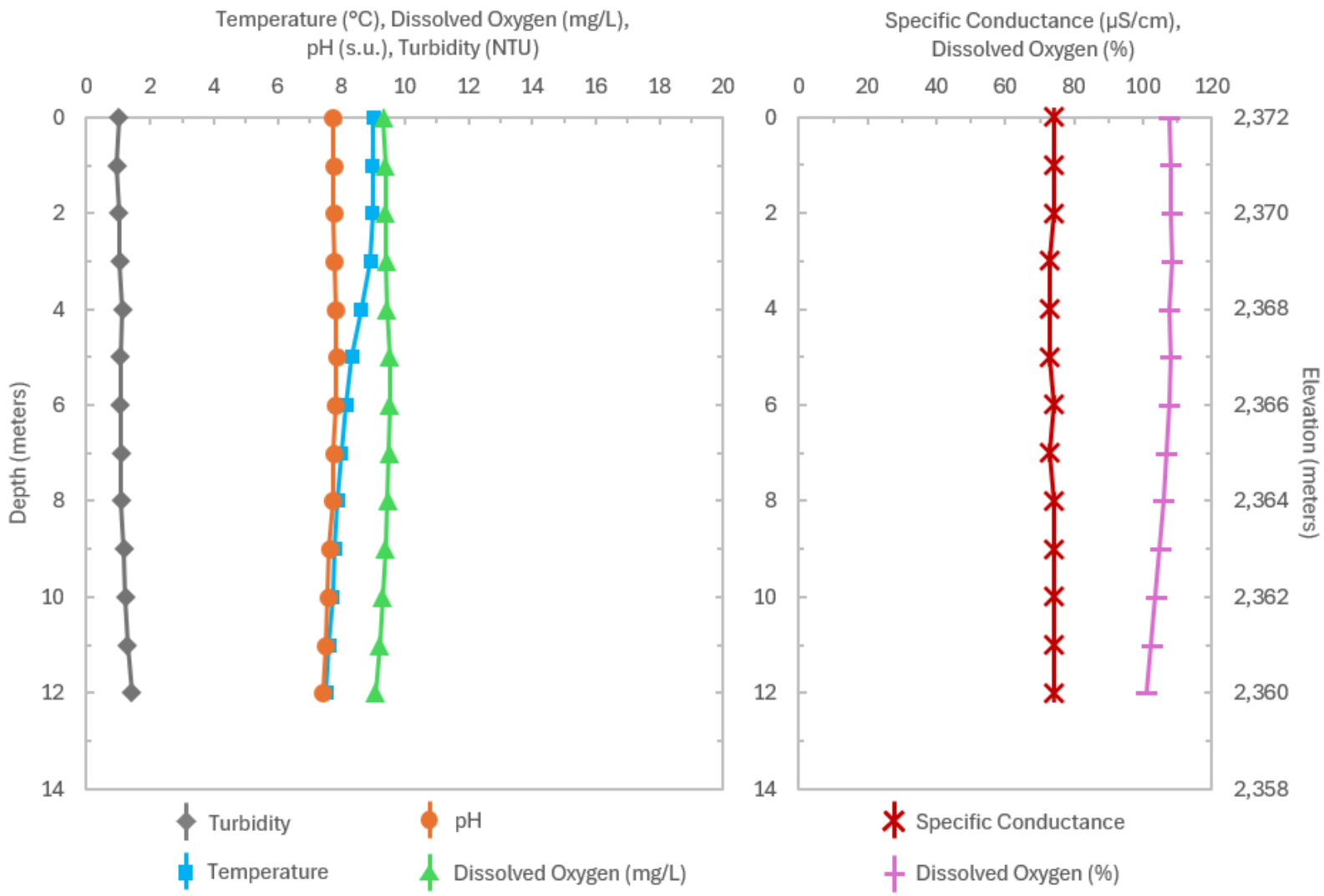
Reservoir	Date (2025)	Depth (m)	Elevation (m)	Temperature (°C)	Dissolved Oxygen[a] (% Sat.)	Specific Conductance (µS/cm)	pH (s.u.)	Turbidity (NTU)	Pressure (mmHg)	Site ID of Water Sample Collected
Lundy Lake	10/21	12	2361	8.9	93	69	6.5	1.2	577.0	

°C = degrees Celsius; mg/L = milligrams per liter; mmHg = millimeters of mercury; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Notes:

[a] Percent dissolved oxygen readings were corrected with temperature and local barometric pressure.

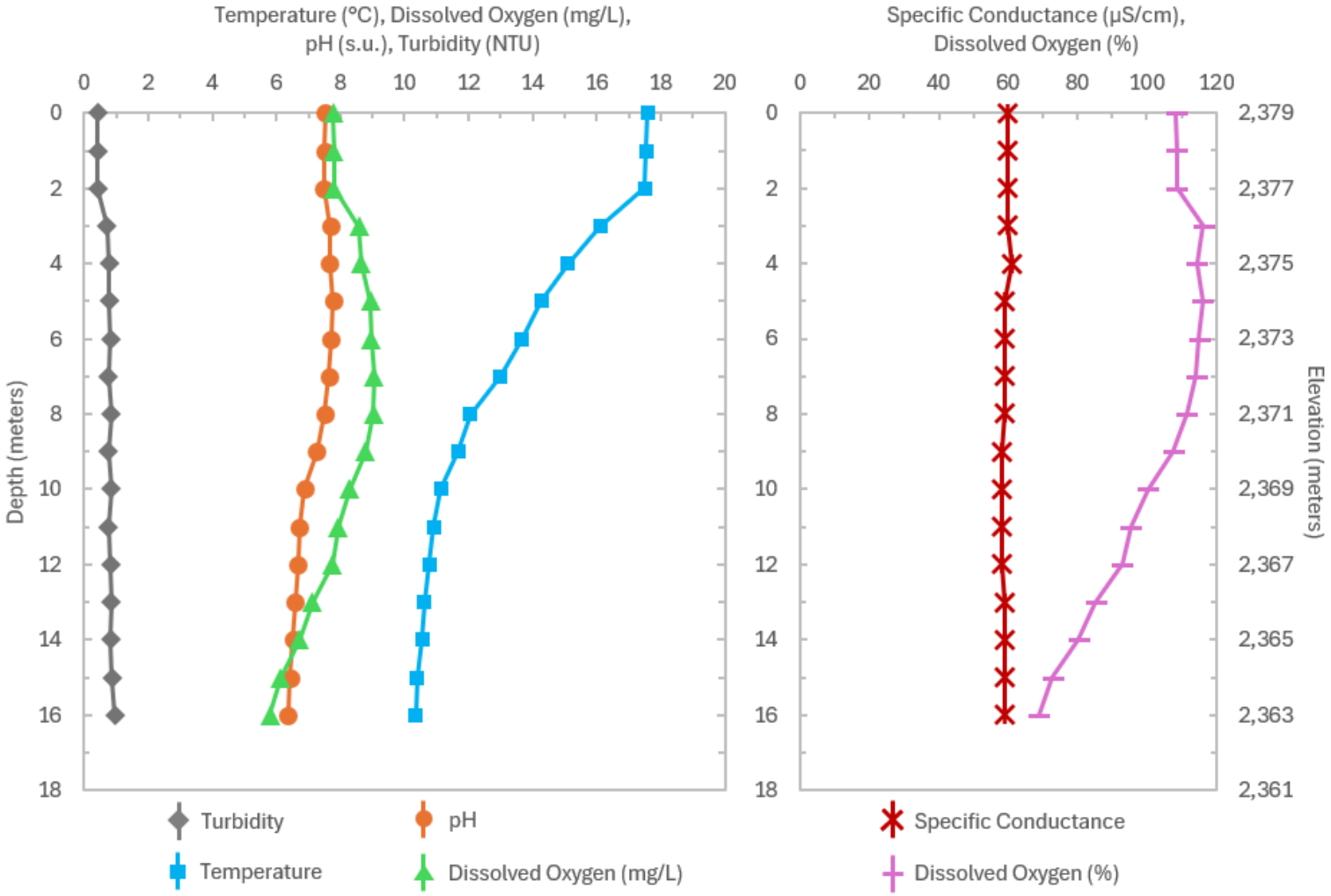
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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-1. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on April 30, 2025.

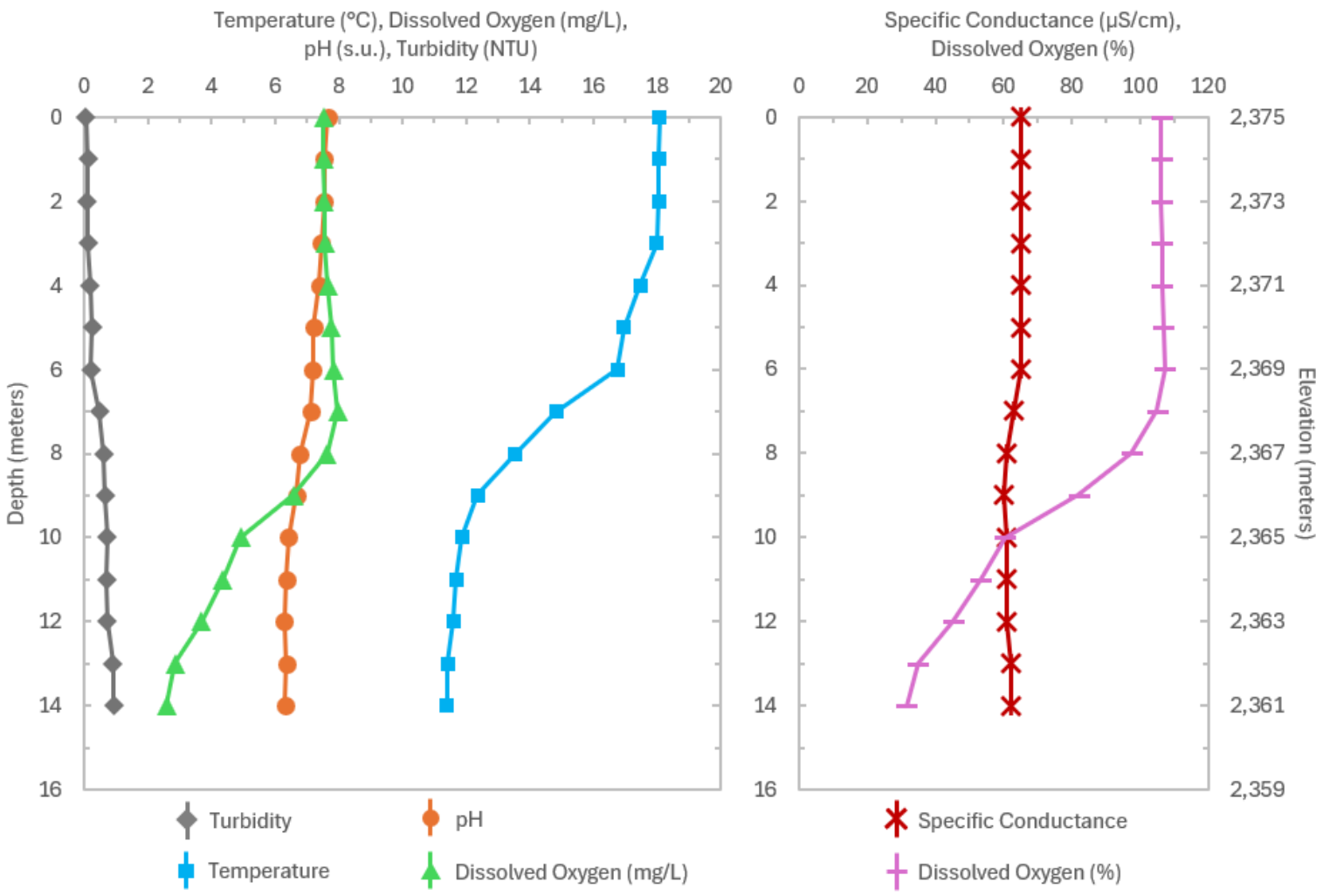
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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-2. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on July 15, 2025.

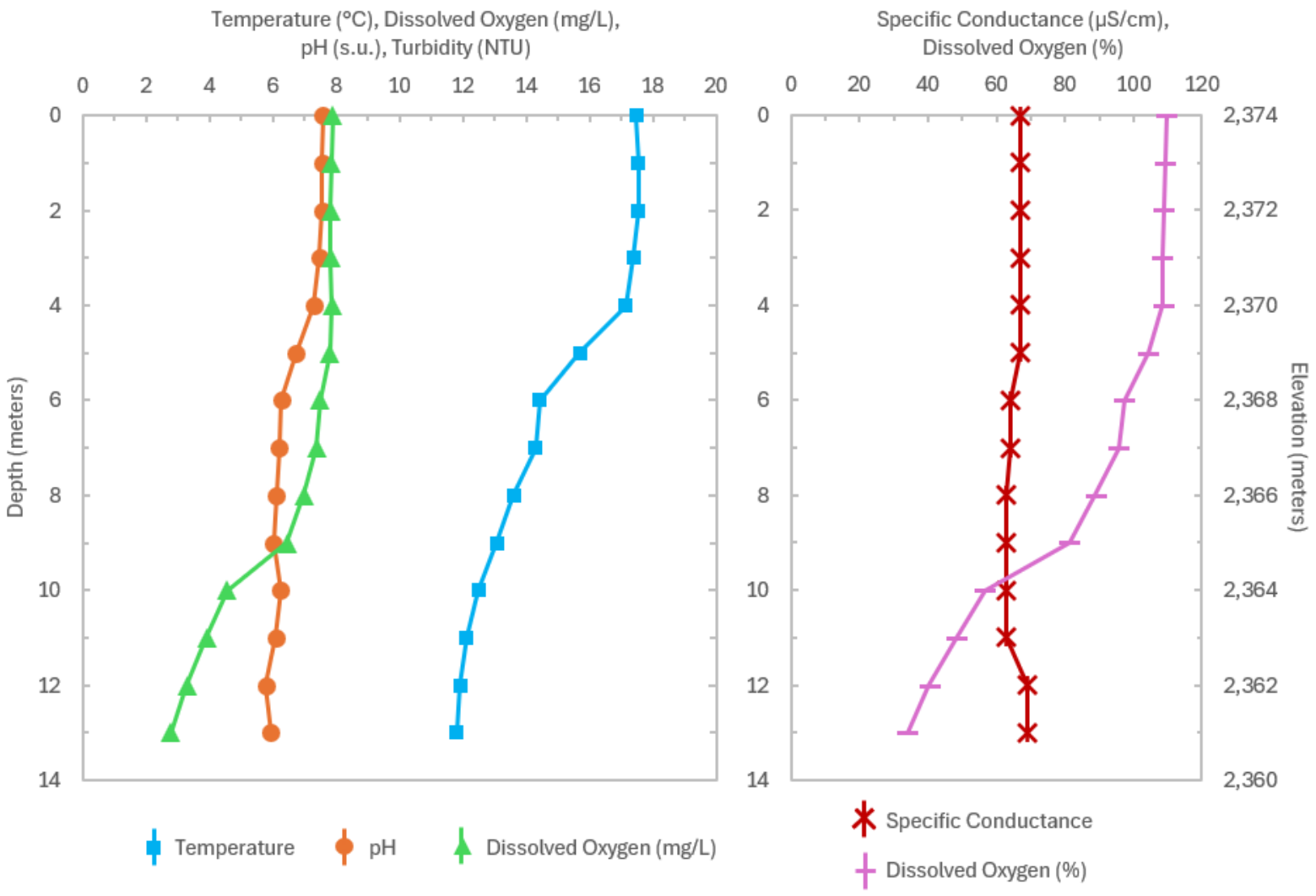
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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-3. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on August 18, 2025.

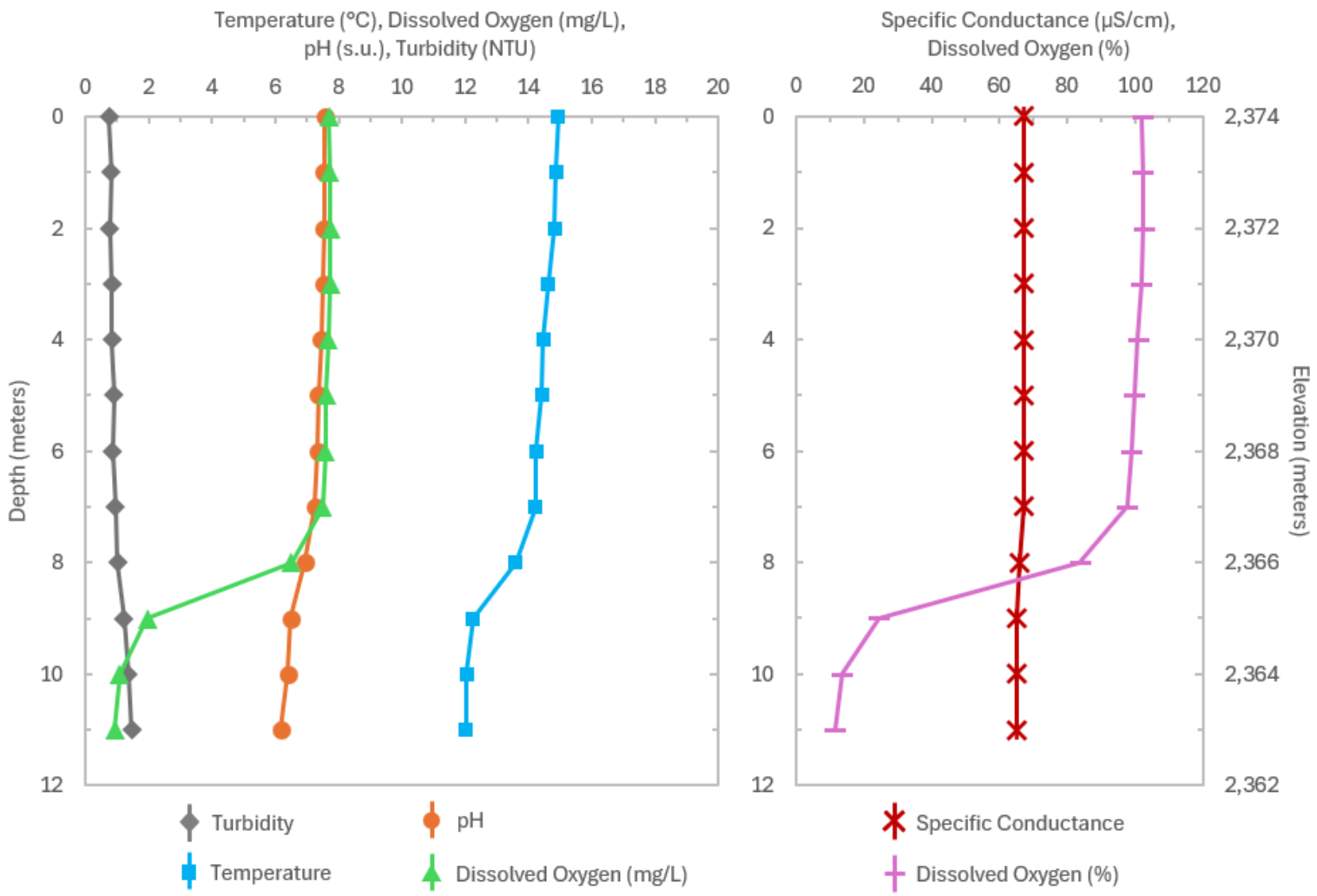
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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-4. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on August 29, 2025.

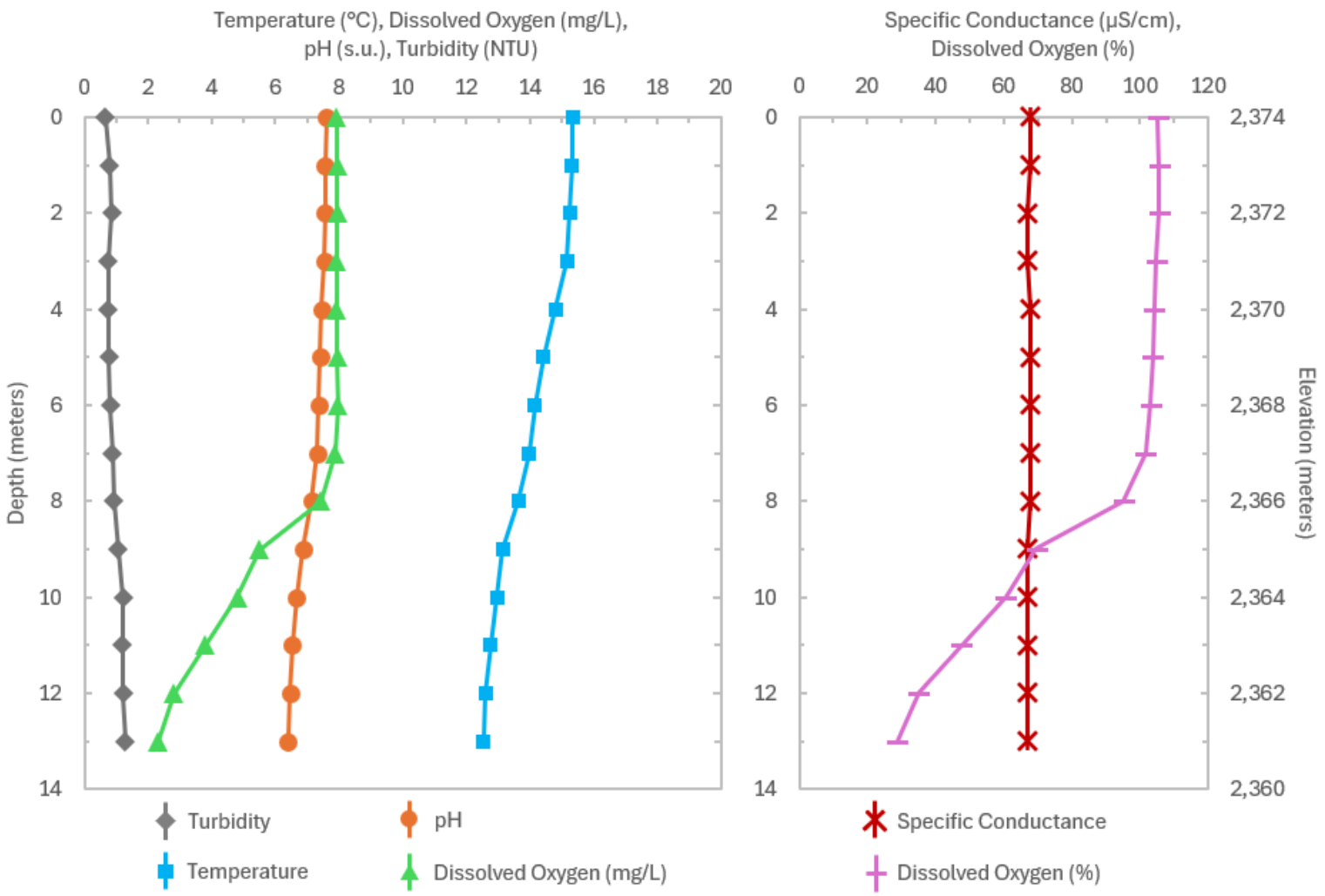
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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-5. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on September 10, 2025.

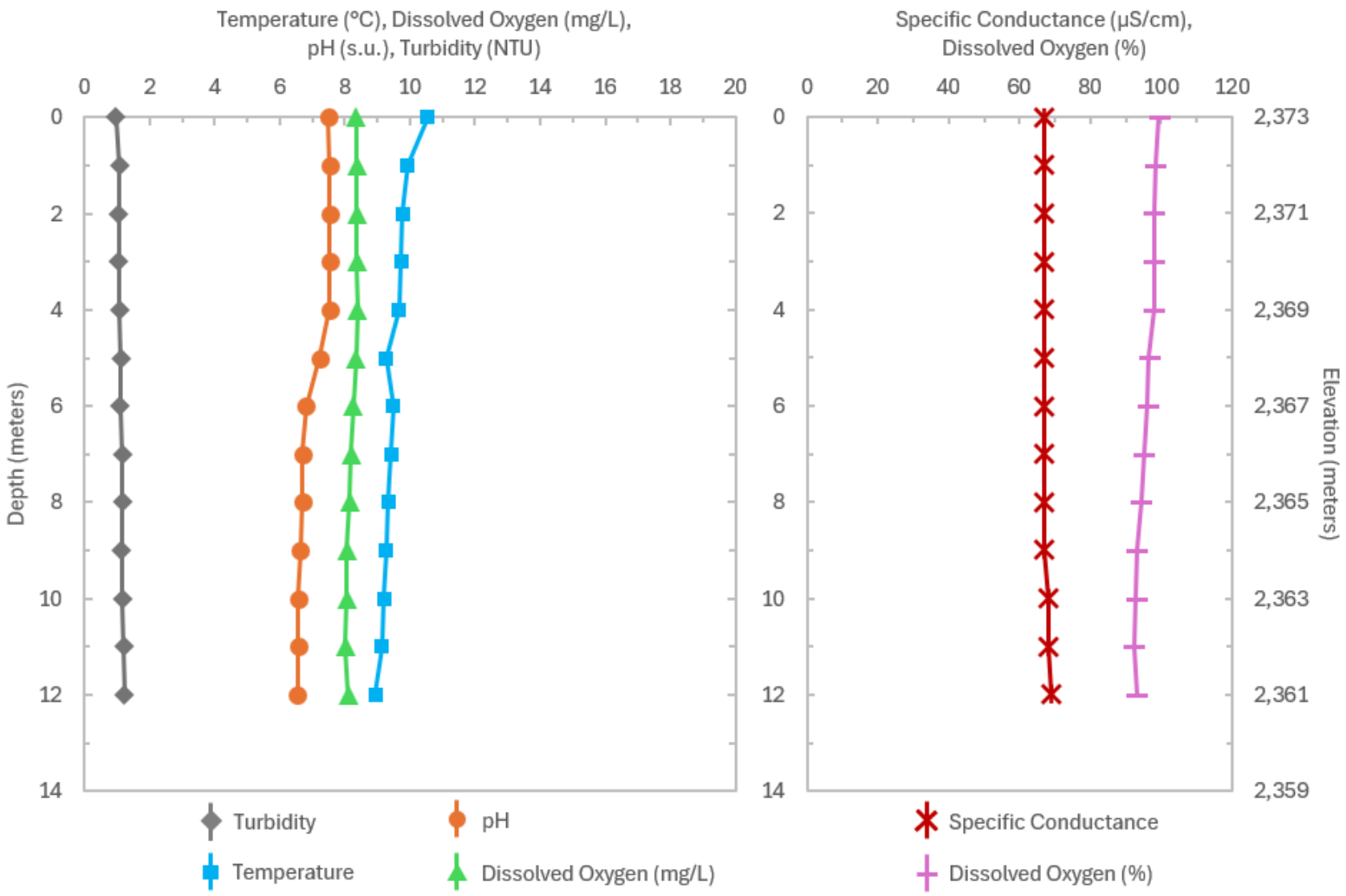
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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-6. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on September 18, 2025.

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°C = degrees Celsius; mg/L = milligrams per liter; s.u. = standard unit; µS/cm = microsiemens per centimeter; NTU = Nephelometric Turbidity Unit

Figure F-7. Reservoir In Situ Water Quality Vertical Profiles measured at Lundy Lake (Site LL-3) on October 21, 2025.

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APPENDIX G
BACTERIA LABORATORY REPORTS

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CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

September 26, 2025

CLS Work Order #: 25I1051
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 09/19/25 12:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 251051 (of)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By Elliott Allen

Job Description
Monitor seasonal bacteria levels in Lundy Canyon

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[x] **CLS** (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] **OTHER**

ANALYSIS REQUESTED

GEOTRACKER

EDF REPORT YES [x] NO [ ]

GLOBAL ID:

FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Fecal coliform-15 Tube		Total Coliform	E. coli Quanti-tray				TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
9/19/25	735	Bac-LL-1		Surface water	2		6	X		X	X							X	
↓	745	Bac-LL-2		Surface water	↓		6	↓		↓	↓							X	
	800	Bac-MCBR-3		Surface water			6											X	
↓	810	Bac-MCBR-4		Surface water	↓		6	↓		↓	↓							X	
				Surface water			6											X	
				Surface water			6											X	
				Surface water			6											X	INVOICE TO:
				Surface water			6											X	Stillwater Sciences
				Surface water			6											X	Same as above
				Surface water			6											X	
				Surface water			6											X	**Project No. 1017.01/811**
				Surface water			6											X	QUOTE#

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (3) = COLD
(2) HNO_3 (4) = H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Elliott Allen/SWS	9/19/25 1245		

RECEIVED AT LAB BY: DATE/TIME: 09/19/25 1245 CONDITIONS/COMMENTS: 6.3/6.1 C -0.2

SHIPPED BY: [ ] FED EX [ ] UPS [ ] OTHER AIR BILL #

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy Bac-T Monitoring
Project Number: 1017.01/811
Project Manager: Christina Buck

CLS Work Order #: 25I1051
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25I1051-01) Surface water	**Sampled: 09/19/25 07:35**	**Received: 09/19/25 12:45**							
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507989	09/19/25 14:55	09/20/25	SM 9221	
Total Coliforms	**920.8**	1.0	"	"	2507993	09/19/25 13:35	09/20/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-LL-2 (25I1051-02) Surface water	**Sampled: 09/19/25 07:45**	**Received: 09/19/25 12:45**							
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507989	09/19/25 14:55	09/20/25	SM 9221	
Total Coliforms	**161.6**	1.0	"	"	2507993	09/19/25 13:35	09/20/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-MCBR-3 (25I1051-03) Surface water	**Sampled: 09/19/25 08:00**	**Received: 09/19/25 12:45**							
Fecal Coliforms	**7.8**	1.8	MPN/100 mL	1	2507989	09/19/25 14:55	09/20/25	SM 9221	
Total Coliforms	**>2419.6**	1.0	"	"	2507993	09/19/25 13:35	09/20/25	SM9223	
E. Coli	**7.4**	1.0	"	"	"	"	"	"	
Bac-MCBR-4 (25I1051-04) Surface water	**Sampled: 09/19/25 08:10**	**Received: 09/19/25 12:45**							
Fecal Coliforms	**2.0**	1.8	MPN/100 mL	1	2507989	09/19/25 14:55	09/20/25	SM 9221	
Total Coliforms	**2419.6**	1.0	"	"	2507993	09/19/25 13:35	09/20/25	SM9223	
E. Coli	**8.6**	1.0	"	"	"	"	"	"	

Stillwater Sciences	Project: Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number: 1017.01/811	**CLS Work Order #: 25I1051**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

BT-5	>2419.6
BT-4a	<1.8
BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

September 18, 2025

CLS Work Order #: 25I0665
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 09/11/25 13:06. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 25101665 (1 of 1)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By
CSM, MEG

Job Description
Monitor seasonal bacteria levels in Lundy Canyon

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[x] CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] OTHER

ANALYSIS REQUESTED

PRESERVATIVES ▼

Fecal coliform-15 Tube | Total Coliform | E. coli Quanti-tray

GEOTRACKER

EDF REPORT YES [x] NO [ ]

GLOBAL ID

FIELD CONDITIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Fecal coliform-15 Tube	Total Coliform	E. coli Quanti-tray	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
9/11/25	8:05am	Bac-LL-1		Surface water	2		6	4						X	
9/11/25	8:25am	Bac-LL-2		Surface water			6	4						X	
9/11/25	8:46am	Bac-MCBR-3		Surface water			6	4						X	
9/11/25	8:50am	Bac-MCBR-4		Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	INVOICE TO:
				Surface water			6							X	Stillwater Sciences
				Surface water			6							X	Same as above
				Surface water			6							X	
				Surface water			6							X	**Project No. 1017.01/811**
				Surface water			6							X	QUOTE#

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (3) = COLD (2) HNO_3 (4)= H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Stillwater Sciences	9/11/25 13:00		

RECEIVED AT LAB BY: DATE/TIME: 09/11/25-1306 CONDITIONS/COMMENTS: 4.1°C 3.9°C

SHIPPED BY: [ ] FED EX [ ] UPS [ ] OTHER AIR BILL # ~~EDF~~ -0.2

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy Bac-T Monitoring
Project Number: 1017.01/811
Project Manager: Christina Buck

CLS Work Order #: 25I0665
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25I0665-01) Surface water	**Sampled: 09/11/25 08:05**	**Received: 09/11/25 13:06**							
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507740	09/11/25 15:10	09/12/25	SM 9221	
Total Coliforms	**1046.2**	1.0	"	"	2507743	09/11/25 17:15	09/12/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-LL-2 (25I0665-02) Surface water	**Sampled: 09/11/25 08:25**	**Received: 09/11/25 13:06**							
Fecal Coliforms	**33**	1.8	MPN/100 mL	1	2507740	09/11/25 15:10	09/12/25	SM 9221	
Total Coliforms	**461.1**	1.0	"	"	2507743	09/11/25 17:15	09/12/25	SM9223	
E. Coli	**9.7**	1.0	"	"	"	"	"	"	
Bac-MCBR-3 (25I0665-03) Surface water	**Sampled: 09/11/25 08:40**	**Received: 09/11/25 13:06**							
Fecal Coliforms	**4.5**	1.8	MPN/100 mL	1	2507740	09/11/25 15:10	09/12/25	SM 9221	
Total Coliforms	**1732.9**	1.0	"	"	2507743	09/11/25 17:15	09/12/25	SM9223	
E. Coli	**3.1**	1.0	"	"	"	"	"	"	
Bac-MCBR-4 (25I0665-04) Surface water	**Sampled: 09/11/25 08:50**	**Received: 09/11/25 13:06**							
Fecal Coliforms	**6.8**	1.8	MPN/100 mL	1	2507740	09/11/25 15:10	09/12/25	SM 9221	
Total Coliforms	**1299.7**	1.0	"	"	2507743	09/11/25 17:15	09/12/25	SM9223	
E. Coli	**5.2**	1.0	"	"	"	"	"	"	

Stillwater Sciences	Project: Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number: 1017.01/811	**CLS Work Order #: 25I0665**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

BT-4a	<1.8
BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

September 11, 2025

CLS Work Order #: 25I0285
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 09/04/25 13:18. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 25I0285 (1 of 1)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By
MGG, CSM

Job Description
Monitor seasonal bacteria levels in Lundy Canyon.

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[x] CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] OTHER

ANALYSIS REQUESTED

PRESERVATIVES ▼

Fecal coliform-15 Tube | Total Coliform | E. coli Quanti-tray

GEOTRACKER

EDF REPORT YES [x] NO [ ]

GLOBAL ID

FIELD CONDITIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Fecal coliform-15 Tube	Total Coliform	E. coli Quanti-tray	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
9/4/25	09:05	Bac-LL-1		Surface water	2		6	X	X	X				X	
9/4/25	08:55	Bac-LL-2		Surface water			6	X	X	X				X	
9/4/25	08:35am	Bac-MCBR-3		Surface water			6	X	X	X				X	
9/4/25	08:20am	Bac-MCBR-4		Surface water			6	X	X	X				X	
				Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	INVOICE TO:
				Surface water			6							X	Stillwater Sciences
				Surface water			6							X	Same as above
				Surface water			6							X	
				Surface water			6							X	**Project No. 1017.01/811**
				Surface water			6							X	QUOTE#

TURNAROUND TIME IN DAYS: 1 | 2 | 3 | 5

SPECIAL INSTRUCTIONS

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (3) = COLD (2) HNO$_3$ (4)= H2SO4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	Stillwaterscience	9/4/25 1318		

RECEIVED AT LAB BY: [signature] DATE/TIME: 09/04/25 - 1318

CONDITIONS/COMMENTS: 2.1/2.7 to 6

SHIPPED BY: [ ] FED EX [ ] UPS [ ] OTHER _____ AIR BILL # _____

09/11/25 15:30

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy Bac-T Monitoring
Project Number: 1017.01/811
Project Manager: Christina Buck

CLS Work Order #: 25I0285
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25I0285-01) Water Sampled: 09/04/25 09:05 Received: 09/04/25 13:18									
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507517	09/04/25 15:10	09/05/25	SM 9221	
Total Coliforms	**1413.6**	1.0	"	"	2507521	09/04/25 13:25	09/05/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-LL-2 (25I0285-02) Water Sampled: 09/04/25 08:55 Received: 09/04/25 13:18									
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507517	09/04/25 15:10	09/05/25	SM 9221	
Total Coliforms	**488.4**	1.0	"	"	2507521	09/04/25 13:25	09/05/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-MCBR-3 (25I0285-03) Water Sampled: 09/04/25 08:35 Received: 09/04/25 13:18									
Fecal Coliforms	**7.8**	1.8	MPN/100 mL	1	2507517	09/04/25 15:10	09/05/25	SM 9221	
Total Coliforms	**1299.7**	1.0	"	"	2507521	09/04/25 13:25	09/05/25	SM9223	
E. Coli	**4.1**	1.0	"	"	"	"	"	"	
Bac-MCBR-4 (25I0285-04) Water Sampled: 09/04/25 08:20 Received: 09/04/25 13:18									
Fecal Coliforms	**7.8**	1.8	MPN/100 mL	1	2507517	09/04/25 15:10	09/05/25	SM 9221	
Total Coliforms	**1119.9**	1.0	"	"	2507521	09/04/25 13:25	09/05/25	SM9223	
E. Coli	**6.3**	1.0	"	"	"	"	"	"	

Stillwater Sciences	Project: Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number: 1017.01/811	**CLS Work Order #: 25I0285**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

BT-4a	<1.8
BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

September 05, 2025

CLS Work Order #: 25H1541
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/28/25 13:12. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 25H1541 (1 of 1)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By

Job Description
Monitor seasonal bacteria levels in Lundy Canyon

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[x] CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] OTHER

ANALYSIS REQUESTED

PRESERVATIVES ▼

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	Fecal coliform-15 Tube	Total Coliform	E. coli Quanti-tray	
8/26/25	7:40 am	Bac-LL-1		Surface water	7		6			X
8/28/25	8:30 am	Bac-LL-2		Surface water			6			X
8/28/25	8:45 am	Bac-MCBR-3		Surface water			6			X
8/28/25	8:50 am	Bac-MCBR-4		Surface water			6			X
				Surface water			6			X
				Surface water			6			X
				Surface water			6			X
				Surface water			6			X
				Surface water			6			X
				Surface water			6			X
				Surface water			6			X
				Surface water			6			X

GEOTRACKER

EDF REPORT YES [x] NO [ ]

GLOBAL ID

FIELD CONDITIONS

TURNAROUND TIME IN DAYS

1	2	3	5
			X

SPECIAL INSTRUCTIONS

INVOICE TO:
Stillwater Sciences
Same as above

Project No. 1017.01/811

QUOTE#

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) HNO3 (3) = COLD (4)= H2SO4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
[signature]	Stillwater Sciences	8/28/25 3:12		

RECEIVED AT LAB BY: [signature] **DATE/TIME:** 08/28/25-1312 **CONDITIONS/COMMENTS:** 6.6/7.2

SHIPPED BY: [ ] FED EX [ ] UPS [ ] OTHER _____ **AIR BILL #** _____

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy Bac-T Monitoring
Project Number: 1017.01/811
Project Manager: Christina Buck

CLS Work Order #: 25H1541
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25H1541-01) Water Sampled: 08/28/25 07:40 Received: 08/28/25 13:12									
Fecal Coliforms	**2.0**	1.8	MPN/100 mL	1	2507317	08/28/25 13:40	08/29/25	SM 9221	
Total Coliforms	**387.3**	1.0	"	"	2507326	08/28/25 16:45	08/29/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-LL-2 (25H1541-02) Water Sampled: 08/28/25 08:20 Received: 08/28/25 13:12									
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507317	08/28/25 13:40	08/29/25	SM 9221	
Total Coliforms	**435.2**	1.0	"	"	2507326	08/28/25 16:45	08/29/25	SM9223	
E. Coli	**1.0**	1.0	"	"	"	"	"	"	
Bac-MCBR-3 (25H1541-03) Water Sampled: 08/28/25 08:45 Received: 08/28/25 13:12									
Fecal Coliforms	**6.8**	1.8	MPN/100 mL	1	2507317	08/28/25 13:40	08/29/25	SM 9221	
Total Coliforms	**1986.3**	1.0	"	"	2507326	08/28/25 16:45	08/29/25	SM9223	
E. Coli	**2.0**	1.0	"	"	"	"	"	"	
Bac-MCBR-4 (25H1541-04) Water Sampled: 08/28/25 08:50 Received: 08/28/25 13:12									
Fecal Coliforms	**11**	1.8	MPN/100 mL	1	2507317	08/28/25 13:40	08/29/25	SM 9221	
Total Coliforms	**158.5**	1.0	"	"	2507326	08/28/25 16:45	08/29/25	SM9223	
E. Coli	**7.5**	1.0	"	"	"	"	"	"	

Stillwater Sciences	Project: Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number: 1017.01/811	**CLS Work Order #: 25H1541**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

BT-4a	<1.8
BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

August 26, 2025

CLS Work Order #: 25H1029
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 13:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 25H1029 (of)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By
Cameron McLaughlin, Michael Schweiker

Job Description
Monitor seasonal bacteria levels in Lundy Canyon

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[X] CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] OTHER

ANALYSIS REQUESTED

GEOTRACKER

EDF REPORT YES [X] NO [ ]

GLOBAL ID

FIELD CONDITIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Fecal coliform-15 Tube	Total Coliform	E. coli Quanti-tray	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
8/19/25	8:06am	Bac-LL-1		Surface water	2		6							X	
8/19/25	8:30am	Bac-LL-2		Surface water			6							X	
8/19/25	8:45am	Bac-MCBR-3		Surface water			6							X	
8/19/25	9:05am	Bac-MCBR-4		Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	INVOICE TO:
				Surface water			6							X	Stillwater Sciences
				Surface water			6							X	Same as above
				Surface water			6							X	
				Surface water			6							X	**Project No. 1017.01/811**
				Surface water			6							X	QUOTE#

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (3) = COLD (2) HNO_3 (4)= H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
	Stillwater Sciences	8/19/25 1335		

RECEIVED AT LAB BY: DATE/TIME: 8/19/25 - 1335 **CONDITIONS/COMMENTS:** 4.6/5.2

SHIPPED BY: [ ] FED EX [ ] UPS [ ] OTHER _____ AIR BILL # _____

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy Bac-T Monitoring
Project Number: 1017.01/811
Project Manager: Christina Buck

CLS Work Order #: 25H1029
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25H1029-01) Water Sampled: 08/19/25 08:06 Received: 08/19/25 13:35									
Fecal Coliforms	<1.8	1.8	MPN/100 mL	1	2507004	08/19/25 14:45	08/22/25	SM 9221	
Total Coliforms	**155.3**	1.0	"	"	2507001	08/19/25 15:00	08/20/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-LL-2 (25H1029-02) Water Sampled: 08/19/25 08:30 Received: 08/19/25 13:35									
Fecal Coliforms	**1.8**	1.8	MPN/100 mL	1	2507004	08/19/25 14:45	08/22/25	SM 9221	
Total Coliforms	**95.9**	1.0	"	"	2507001	08/19/25 15:00	08/20/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-MCBR-3 (25H1029-03) Water Sampled: 08/19/25 08:45 Received: 08/19/25 13:35									
Fecal Coliforms	**11**	1.8	MPN/100 mL	1	2507004	08/19/25 14:45	08/22/25	SM 9221	
Total Coliforms	**344.1**	1.0	"	"	2507001	08/19/25 15:00	08/20/25	SM9223	
E. Coli	**24.9**	1.0	"	"	"	"	"	"	
Bac-MCBR-4 (25H1029-04) Water Sampled: 08/19/25 09:05 Received: 08/19/25 13:35									
Fecal Coliforms	**130**	1.8	MPN/100 mL	1	2507004	08/19/25 14:45	08/22/25	SM 9221	
Total Coliforms	**517.2**	1.0	"	"	2507001	08/19/25 15:00	08/20/25	SM9223	
E. Coli	**23.1**	1.0	"	"	"	"	"	"	

Stillwater Sciences	Project: Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number: 1017.01/811	**CLS Work Order #: 25H1029**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

BT-4a	<1.8
BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
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August 21, 2025

CLS Work Order #: 25H0744
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/13/25 12:40. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 25740n44 (of)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By
MEG+CSM

Job Description
Monitor seasonal bacteria levels in Lundy Canyon

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[x] CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] OTHER

GEOTRACKER

EDF REPORT YES [x] NO [ ]

GLOBAL ID

FIELD CONDITIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Fecal coliform 15 Tube	Total Coliform	E. coli Quanti-tray	TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
8/13/25	7:37am	Bac-LL-1		Surface water	2		6	X	X	X				X	
	8:00am	Bac-LL-2		Surface water			6							X	
	8:25	Bac-MCBR-3		Surface water			6							X	
	8:40	Bac-MCBR-4		Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	
				Surface water			6							X	INVOICE TO:
				Surface water			6							X	Stillwater Sciences
				Surface water			6							X	Same as above
				Surface water			6							X	
				Surface water			6							X	**Project No. 1017.01/811**
				Surface water			6							X	QUOTE#

ANALYSIS REQUESTED

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (3) = COLD (2) HNO3 (4)= H2SO4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
Meg Corcoran CSM	Stillwater Sciences	8/13/25		

RECEIVED AT LAB BY: DATE/TIME: 8/13/25 1240 CONDITIONS/COMMENTS: 9.8 10.4

SHIPPED BY: [ ] FEDEX [ ] UPS [ ] OTHER AIR BILL #

Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project: Lundy Bac-T Monitoring
Project Number: 1017.01/811
Project Manager: Christina Buck

CLS Work Order #: 25H0744
COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25H0744-01) Water Sampled: 08/13/25 07:37 Received: 08/13/25 12:40									
Total Coliforms	**920.8**	1.0	MPN/100 mL	1	2506835	08/13/25 17:50	08/14/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-LL-2 (25H0744-02) Water Sampled: 08/13/25 08:00 Received: 08/13/25 12:40									
Total Coliforms	**770.1**	1.0	MPN/100 mL	1	2506835	08/13/25 17:50	08/14/25	SM9223	
E. Coli	<1	1.0	"	"	"	"	"	"	
Bac-MCBR-3 (25H0744-03) Water Sampled: 08/13/25 08:25 Received: 08/13/25 12:40									
Total Coliforms	**770.1**	1.0	MPN/100 mL	1	2506835	08/13/25 17:50	08/14/25	SM9223	
E. Coli	**18.5**	1.0	"	"	"	"	"	"	
Bac-MCBR-4 (25H0744-04) Water Sampled: 08/13/25 08:40 Received: 08/13/25 12:40									
Total Coliforms	**980.4**	1.0	MPN/100 mL	1	2506835	08/13/25 17:50	08/14/25	SM9223	
E. Coli	**17.3**	1.0	"	"	"	"	"	"	

Stillwater Sciences	Project: Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number: 1017.01/811	**CLS Work Order #: 25H0744**
Berkeley, CA 94705	Project Manager: Christina Buck	COC #:

Notes and Definitions

BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
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August 14, 2025

CLS Work Order #: 25H0425
COC #:

Christina Buck
Stillwater Sciences
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Project Name: Lundy Bac-T Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/07/25 12:55. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

Daniel Johnson
Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 25H0425 (of)

Report To:

Stillwater Sciences
279 Cousteau Place Suite 400
Davis, CA 95618

Project Manager
Elliott Allen and Christina Buck
eallen@stillwatersci.com; cbuck@stillwatersci.com

Project Name
Lundy Bac-T Monitoring

Sampled By Elliott Allen

Job Description
Monitor seasonal bacteria levels in Lundy Canyon.

Site Location Lundy Canyon

Client Job Number
1017.01/811

Destination Laboratory
Rancho Cordova

[x] **CLS** (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA
95742
www.californialab.com

[ ] OTHER

GEOTRACKER

EDF REPORT YES [x] [ ] NO

GLOBAL ID

FIELD CONDITIONS

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Fecal coliform-15 Tube		Total Coliform	E. coli Quanti-tray				TURNAROUND TIME IN DAYS 1	2	3	5	SPECIAL INSTRUCTIONS
8/7/25	750	Bac-LL-1		Surface water	2		6	X		X	X							X	
"	800	Bac-LL-2		Surface water	"		6	"		"	"							X	
"	815	Bac-MCBR-3		Surface water	"		6	"		"	"							X	
"	840	Bac-MCBR-4		Surface water	"		6	"		"	"							X	
				Surface water			6											X	
				Surface water			6											X	
				Surface water			6											X	INVOICE TO:
				Surface water			6											X	Stillwater Sciences
				Surface water			6											X	Same as above
				Surface water			6											X	
				Surface water			6											X	**Project No. 1017.01/811**
				Surface water			6											X	QUOTE#

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (3) = COLD (2) HNO_3 (4)= H_2SO_4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY

RECEIVED AT LAB BY: DATE/TIME: 8/7/25 1255 CONDITIONS/COMMENTS: 6.9 / 12.5

SHIPPED BY: [ ] FED EX [ ] UPS [ ] OTHER AIR BILL #

Stillwater Sciences	Project:	Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number:	1017.01/811	**CLS Work Order #: 25H0425**
Berkeley, CA 94705	Project Manager:	Christina Buck	COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bac-LL-1 (25H0425-01) Water Sampled: 08/07/25 07:50 Received: 08/07/25 12:55									
E. Coli	<1	1.0	MPN/100 mL	1	2506679	08/07/25	08/08/25	SM9223	
Fecal Coliforms	<1.8	1.8	"	"	2506683	08/07/25	08/10/25	SM 9221	
Total Coliforms	**96.0**	1.0	"	"	2506679	08/07/25	08/08/25	SM9223	
Bac-LL-2 (25H0425-02) Water Sampled: 08/07/25 08:00 Received: 08/07/25 12:55									
E. Coli	<1	1.0	MPN/100 mL	1	2506679	08/07/25	08/08/25	SM9223	
Fecal Coliforms	<1.8	1.8	"	"	2506683	08/07/25	08/10/25	SM 9221	
Total Coliforms	**290.9**	1.0	"	"	2506679	08/07/25	08/08/25	SM9223	
Bac-MCBR-3 (25H0425-03) Water Sampled: 08/07/25 08:15 Received: 08/07/25 12:55									
E. Coli	**13.4**	1.0	MPN/100 mL	1	2506679	08/07/25	08/08/25	SM9223	
Fecal Coliforms	**2.0**	1.8	"	"	2506683	08/07/25	08/10/25	SM 9221	
Total Coliforms	**579.4**	1.0	"	"	2506679	08/07/25	08/08/25	SM9223	
Bac-MCBR-4 (25H0425-04) Water Sampled: 08/07/25 08:40 Received: 08/07/25 12:55									
E. Coli	**21.6**	1.0	MPN/100 mL	1	2506679	08/07/25	08/08/25	SM9223	
Fecal Coliforms	**110**	1.8	"	"	2506683	08/07/25	08/10/25	SM 9221	
Total Coliforms	**770.1**	1.0	"	"	2506679	08/07/25	08/08/25	SM9223	

Stillwater Sciences	Project:	Lundy Bac-T Monitoring	
2855 Telegraph Ave., Suite 400	Project Number:	1017.01/811	**CLS Work Order #: 25H0425**
Berkeley, CA 94705	Project Manager:	Christina Buck	COC #:

Notes and Definitions

BT-4a	<1.8
BT-4	<1
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

APPENDIX H
MERCURY IN FISH TISSUE RESULTS

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Table H-1. Fish Species and Tissue Total Mercury Data, August 2025

Reservoir	Date	Sample ID	Species	Total Mercury (µg/g ww)	Laboratory		Fork Length (FL) (mm)	Total Length (TL) (mm)	Weight (g)
					MDL	RL			
Lundy Lake	8/25/2025	BRN-M1	Brown Trout	0.038	0.003	0.009	171	179	52.5
Lundy Lake	8/25/2025	BRN-M2	Brown Trout	0.148	0.003	0.009	306	317	317.6
Lundy Lake	8/25/2025	BRN-M3	Brown Trout	0.187	0.003	0.009	290	303	238.8
Lundy Lake	8/25/2025	BRN-M4	Brown Trout	0.129	0.003	0.009	250	266	170
Lundy Lake	8/25/2025	BRN-M5	Brown Trout	0.099	0.003	0.009	270	286	204
Lundy Lake	8/25/2025	BRN-M6	Brown Trout	0.249	0.003	0.009	278	290	197.4
Lundy Lake	8/25/2025	BRN-M7	Brown Trout	0.166	0.003	0.009	238	252	159.2
Lundy Lake	8/25/2025	BRN-M8	Brown Trout	0.08	0.003	0.009	204	215	94.4
Lundy Lake	8/25/2025	BRN-M9	Brown Trout	0.114	0.003	0.009	261	271	173
Lundy Lake	8/25/2025	RBT-M1	Rainbow Trout	0.014	0.003	0.009	302	319	288.2
Lundy Lake	8/25/2025	RBT-M2	Rainbow Trout	0.009	0.003	0.009	294	308	285.8
Lundy Lake	8/25/2025	RBT-M3	Rainbow Trout	0.01	0.003	0.009	388	405	642.2

µg/g ww = micrograms per gram wet weight; FL = fork length; g = gram; MDL = minimum detection limit; RL = reporting limit; mm = millimeters; TL = total length

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SOUTHERN CALIFORNIA EDISON
Lundy Hydroelectric Project
(FERC Project No. 1390)



LUNDY LAKE AND MILL CREEK WATER TEMPERATURE MONITORING (WQ-2) DRAFT TECHNICAL REPORT

SOUTHERN CALIFORNIA EDISON®
Energy for What's Ahead®

OCTOBER 2026

SOUTHERN CALIFORNIA EDISON

Lundy Hydroelectric Project
(FERC Project No. 1390)

LUNDY LAKE AND MILL CREEK WATER TEMPERATURE MONITORING (WQ-2)
DRAFT TECHNICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

October 2026

TABLE OF CONTENTS

Page

1.0 Introduction 1

2.0 Study Goals and Objectives 1

2.1. Study Area 1

3.0 Methods 4

3.1. Water Temperature 4

3.2. Incidental Observations 4

3.3. Variances to Approved Methods 5

4.0 Study Results 5

4.1. Water Temperature 5

4.2. Incidental Observations 9

5.0 References 10

LIST OF TABLES

Table 2.1-1. Water and Air Temperature Monitoring Sites 2

Table 4.1-1. Average, Minimum, and Maximum Water and Air Temperatures by month, April 2025–April 2026 8

Table 4.2-1. Incidental *Didymosphenia geminata* Observations Within the Lundy Lake Study Area, 2025 9

LIST OF FIGURES

Figure 2.1-1. Water Temperature Monitoring Sites. 3

Figure 4.1-1. Mean Daily Water Temperatures at WQ-2 Study Water Temperature Sites April 2025–April 2026. 7

Figure 4.2-1. *Didymosphenia geminata* at Site LPH-6, April 2025 (left) and August 2025 (right). 9

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LIST OF APPENDICES

Appendix A Water Temperature Figures

LIST OF ACRONYMS AND ABBREVIATIONS

FERC	Federal Energy Regulatory Commission
MCRD	Mill Creek Return Ditch
Project	Lundy Hydroelectric Project (FERC Project No. 1390)
SCE	Southern California Edison
WQ-2 Study	Water Temperature Study

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct a Water Temperature Study (WQ-2) to evaluate current water temperatures in the Project reservoir (Lundy Lake) and Project-affected stream reaches for the Lundy Hydroelectric Project (FERC Project No. 1390). FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the study with modifications (SCE, 2024).

This technical report includes results from water temperature data collected in Project-affected stream reaches from April 8, 2025, through April 30, 2026. Consistent with FERC's Study Plan Determination, because the 2026 water year forecast[1] on April 1, 2026, was different from the 2025 water year, a second year of water temperature data collection will occur beginning on May 1, 2026, and continuing into October 2026. Year 2 data will be included in a technical report filed with the Updated Study Report. Water temperature in Lundy Lake (i.e., reservoir profiles) is described in the *Lundy Lake and Mill Creek Water Quality (WQ-1) Draft Technical Report* (SCE, 2026a).

2.0 STUDY GOALS AND OBJECTIVES

The objective of WQ-2 was to collect water temperature data to characterize conditions in Lundy Lake and Project-affected stream reaches of Mill Creek. These data were also used to evaluate potential effects of the Project on water temperatures in Mill Creek and assess consistency with water temperature objectives included in the Basin Plan in the DLA (LRWQCB, 2019). Mill Creek has a designated beneficial use of Cold Freshwater Habitat (COLD) under the Basin Plan (LRWQCB, 2019), which requires that temperature must not adversely affect designated beneficial uses.

2.1. STUDY AREA

The study area included Mill Creek upstream of Lundy Lake, Mill Creek between Lundy Lake and the Mill Creek Return Ditch (MCRD) outlet (Lundy Dam Bypass Reach), Lundy Powerhouse Tailrace, MCRD, and Mill Creek between the MCRD outlet and Mono Lake (Lower Mill Creek).

[1] The 2026 water year was determined using the adjacent Lee Vining Project (FERC Project No. 1388) forecast and calculated from the most recent 30 years of precipitation data measured at the Dana Meadows Weather Station. Dry water years are defined as those in which the water availability as of April 1 is representative of the water available on April 1 in the lowest 30 percent of the previous 30 years. Wet water years are defined as those in which the water availability as of April 1 is representative of the water available on April 1 in the highest 30 percent of the previous 30 years. Normal water years are defined as those that cannot be classified as either dry or wet, per the above definitions. The water year in 2025 was categorized as normal and the water year in 2026 was categorized as dry on April 1, 2026.

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Nine sites were selected for water temperature monitoring within the study area. One site was selected for air temperature monitoring near Mill Creek at the approximate mid-point between upstream and downstream monitoring locations. Study sites were determined in the field based on accessibility, representative locations (e.g., thalweg, multiple channel width mixing zones downstream of tributaries or other flow inputs), and deployment suitability (e.g., presence of anchor points, avoidance of sediment deposits). Study sites are described in Table 2.1-1 and shown in Figure 2.1-1.

Table 2.1-1. Water and Air Temperature Monitoring Sites

Site ID	Site Name	Location Coordinates[a] (decimal degrees)	
		Latitude	Longitude
Water Temperature			
UMC-1	Mill Creek upstream of Lundy Lake[b]	38.025307	-119.239981
MCBR-2	Mill Creek downstream of Lundy Lake	38.032981	-119.216404
MCBR-3	Mill Creek downstream of the confluence with Deer Creek	38.032928	-119.214933
MCBR-4	Mill Creek upstream of the confluence with Mill Creek Return Ditch	38.035525	-119.167877
LPH-6	Lundy Powerhouse Tailrace	38.044303	-119.170267
MCRD-7	Mill Creek Return Ditch upstream of the confluence with Mill Creek	38.037542	-119.164644
LMC-5	Mill Creek downstream of the confluence with Mill Creek Return Ditch	38.039056	-119.160119
LMC-8	Mill Creek near Mono City	38.038842	-119.145792
LMC-9	Mill Creek near Mono Lake	38.023100	-119.133336
Air Temperature			
AT-10	Air Temperature Monitoring Station	38.034153	-119.215346

Notes:
[a] Datum: World Geodetic System 1984
[b] Site is downstream of the confluence with South Fork Mill Creek.

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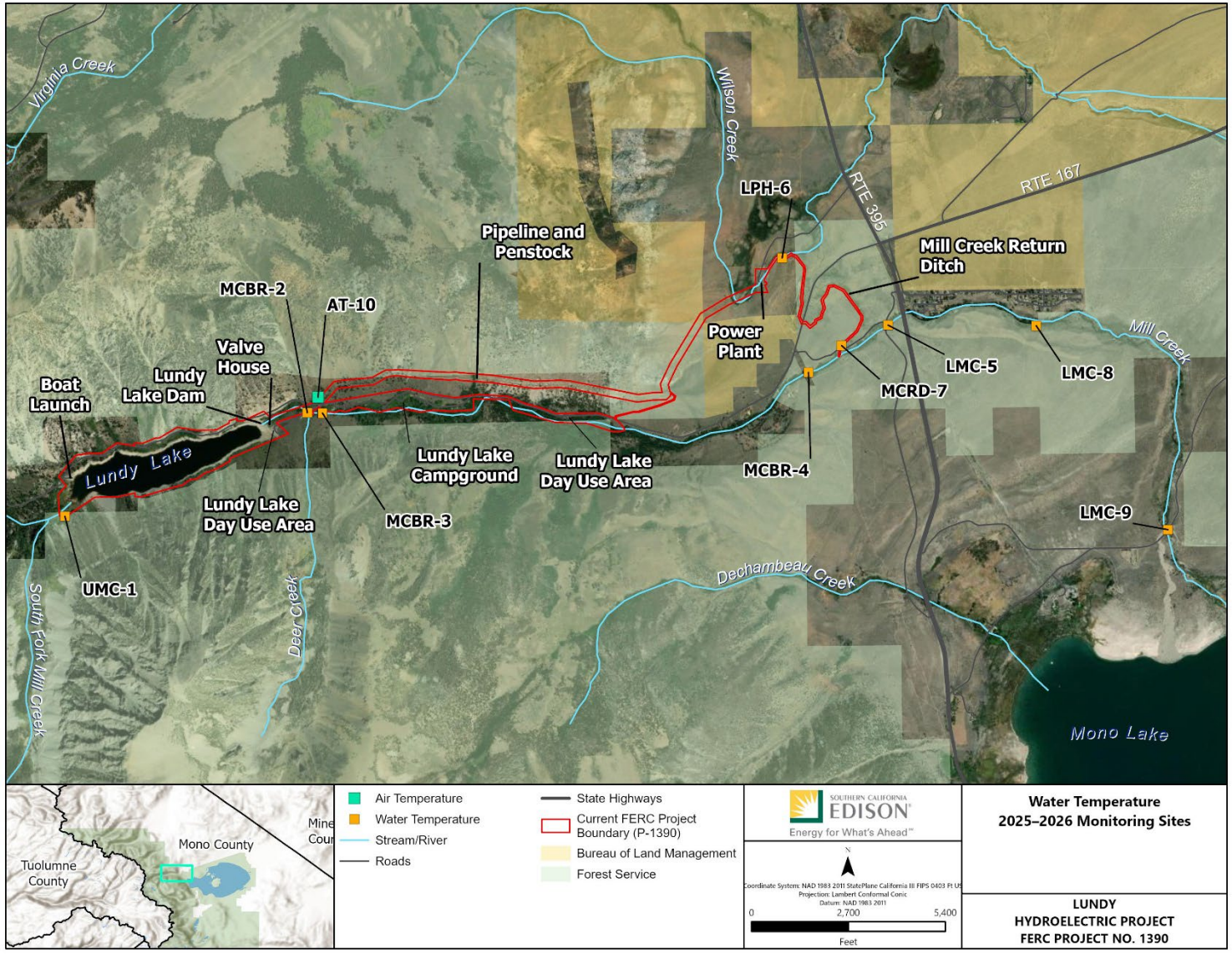


Figure 2.1-1. Water Temperature Monitoring Sites.

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3.0 METHODS

As detailed in the following subsections, study implementation followed the methods described in the WQ-2 Study Plan (SCE, 2024).

3.1. WATER TEMPERATURE

Water temperature loggers were installed at each site on April 8 and 9, 2025. Factory-calibrated water-temperature data loggers (Onset HOBO Pro V2) were tested for accuracy following the manufacturer's instructions. Prior to deployment, accuracy was checked by immersing each logger in an ice bath to verify readings near 0 °C and ambient tap water to verify readings match an NIST thermometer reading.

Loggers were installed near the thalweg in locations representative of the main channel (Table 2.1-1, Figure 2.1-1). Each logger was enclosed in protective PVC housings, weighted to rest on the streambed, and secured to the bank using stainless-steel cable. Duplicate loggers were installed for redundancy in the event of equipment loss, malfunction, or vandalism. Loggers installed at each site were randomly assigned identifiers as Logger A and Logger B. Water temperature readings were recorded at 15-minute intervals. Loggers were cleaned and data were downloaded approximately monthly between April and October 2025. Between October 2025 and April 2026, the loggers remained deployed without servicing because sites were inaccessible due to winter conditions. Loggers will remain deployed through October 2026 with approximately monthly maintenance occurring as conditions allow.

Water temperature data downloaded during field visits were transferred to Microsoft Excel workbooks and reviewed. Data quality review included identification of periods when the loggers were not within the wetted stream channel due to servicing, low or no streamflow (e.g., no flow in the MCRD), or other factors (e.g., removal from the stream during electrofishing). Periods of anomalous water temperature data (e.g., large shifts in the daily minimum to maximum range) were compared with air temperature and duplicate water temperature data to determine whether the loggers were reading air or water temperatures or if the loggers were frozen. Water temperature data collected by Logger A served as the primary data for analysis, and data collected by Logger B served as a backup in the event of any data loss or exclusion.

Following data review, validated water temperature data were used to calculate daily mean values based on the average of all 15-minute readings for a given day, and maxima or minima as the maximum or minimum temperature reading for a given day.

3.2. INCIDENTAL OBSERVATIONS

Incidental observations of, and location information for, special-status species or aquatic invasive species (e.g., Didymo [*Didymosphenia geminata*]) were noted and are reported in Section 4.2.

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3.3. VARIANCES TO APPROVED METHODS

SCE encountered no variances when implementing the WQ-2 Study Plan as approved by FERC in its Study Plan Determination (FERC, 2025).

4.0 STUDY RESULTS

4.1. WATER TEMPERATURE

SCE collected water temperature data between April 8, 2025, and April 30, 2026, within Mill Creek upstream of Lundy Lake (Site UMC-1), the Lundy Dam Bypass Reach (Site MCBR-2, Site MCBR-3, and Site MCBR-4), Lundy Powerhouse Tailrace (Site LPH-6), the MCRD (Site MCBR-7), and Lower Mill Creek downstream of the MCRD (Site LMC-5, Site LMC-8, and Site LMC-9[2]), and air temperature data were collected at Site AT-10[3]. These data are summarized as mean daily maximum, minimum, and average. Mean daily water temperatures for each site are plotted in Figure 4.1-1 and mean daily maximum, minimum, and average water temperature summarized by month are provided in Table 4.1-1. Mean daily maximum, minimum, and average water temperature plotted by site are provided in Appendix A.

Water temperatures exhibited seasonal variations with cooler temperatures observed in the spring and late fall, coldest temperatures observed in winter, and warmer temperatures observed in the summer and early fall following seasonal thermal variability (i.e., air temperatures). Mean daily water temperatures were coolest at Mill Creek upstream of Lundy Lake (Site UMC-1) (Figure 4.1-1 and Table 4.1-1). Mean daily water temperatures were generally warmest at Mill Creek near Mono Lake (Site LMC-9) during the spring and fall and at Mill Creek downstream of Lundy Lake (Sites MCBR-2 and MCBR-3) during the winter (Figure 4.1-1 and Table 4.1-1). The highest mean daily temperatures occurred at the Lundy Powerhouse Tailrace (Site LPH-6) and at the MCRD upstream of the confluence with Mill Creek (Site MCRD-7) when it was in operation[4] during July and August (Table 4.1-1). In Mill Creek, the highest maximum daily water temperature (20.1 degrees Celsius) occurred on September 3, 2025, at Mill Creek near Mono Lake (Site LMC-9) (Table 4.1-1).

Water temperatures at the sites on Mill Creek downstream of Lundy Lake exhibited less thermal variation during cooler spring months compared with warmer summer months, except during a short period from July 22 to 28, 2025, when stream flows were high (approximately 5–150 cubic feet per second [cfs]) during the field work for the Fish

[2] Water temperate data collected at Site LMC-9 during the periods from December 24 to December 26, 2025, January 9 to January 14, 2026, and February 17 to February 22, 2026 were excluded from the dataset due to anomalous temperature readings based on lack of regular, diurnal variations.

[3] Water temperate data collected at Site AT-10, during the period from December 23, 2025, to January 18, 2026 were excluded from the dataset due to anomalous temperature readings based on lack of regular, diurnal variations.

[4] Mill Creek Return Ditch was operating, and the temperature logger was submerged from approximately May 16, 2025, to July 20, 2025, and from August 1, 2025, to August 19, 2025.

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Stranding (AQ-2) Study (SCE, 2026b). During this period, water temperatures increased and were more similar at all Mill Creek sites downstream of Lundy Lake.

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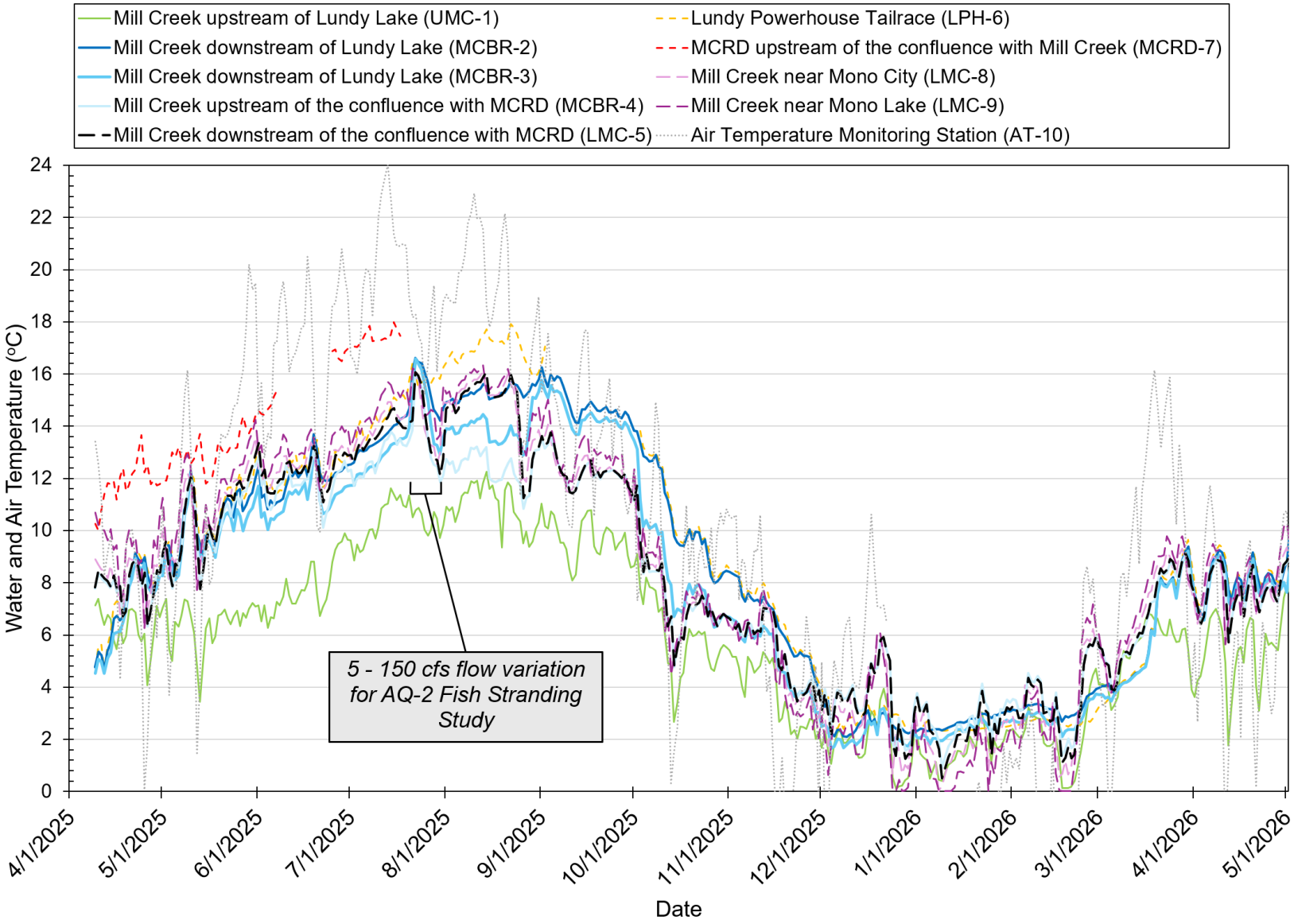


Figure 4.1-1. Mean Daily Water Temperatures at WQ-2 Study Water Temperature Sites April 2025–April 2026.

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Table 4.1-1. Average, Minimum, and Maximum Water and Air Temperatures by month, April 2025–April 2026

Site Description (Site ID)	April 2025[a]	May 2025	June 2025	July 2025[b]	August 2025	September 2025	October 2025	November 2025	December 2025	January 2026	February 2026	March 2026	April 2026
Monthly Water Temperature (ºC) (average [minimum to maximum])[c]													
Mill Creek upstream of Lundy Lake (UMC-1)	6.3 (2.3–10.9)	6.4 (2.0–11.7)	7.8 (3.7–13.9)	10.4 (5.7–15.8)	11.3 (7.0–15.4)	9.7 (6.5–13.8)	6.0 (1.5–10.5)	3.8 (1.3–6.9)	1.8 (0.0–4.3)	1.5 (0.2–3.7)	2.1 (0.1–6.5)	5.4 (1.2–9.9)	5.3 (0.5–10.8)
Mill Creek downstream of Lundy Lake (MCBR-2)	7.1 (2.6–10.7)	10.3 (8.0–13.7)	12.0 (10.0–14.7)	14.2 (12.1–17.6)	15.2 (14.3–16.6)	14.9 (13.7–17.1)	10.6 (7.6–14.8)	6.5 (3.6–9.4)	2.6 (1.6–4.0)	2.7 (1.9–3.7)	3.2 (2.3–5.0)	6.0 (3.6–10.4)	8.1 (6.2–10.3)
Mill Creek downstream of Deer Creek (MCBR-3)	6.8 (2.5–10.8)	9.9 (7.5–13.6)	11.3 (9.1–14.4)	13.5 (11.1–17.6)	13.9 (12.0–15.9)	14.5 (13.2–16.7)	8.4 (5.4–14.6)	5.1 (2.6–8.1)	2.2 (0.7–3.7)	2.3 (1.2–3.3)	2.8 (1.6–4.6)	5.8 (3.0–10.3)	7.9 (6.0–10.3)
Mill Creek upstream of the confluence with MCRD (MCBR-4)	7.9 (3.5–12.3)	10.2 (5.4–16.2)	11.8 (7.1–16.4)	13.2 (8.9–17.6)	12.5 (9.2–16.3)	12.3 (10.0–15.7)	7.5 (3.6–13.7)	5.4 (2.6–8.2)	3.5 (0.0–6.5)	2.7 (0.1–4.9)	3.5 (0.2–7.8)	6.6 (2.5–11.8)	7.6 (3.7–12.1)
Lundy Powerhouse Tailrace (LPH-6)[d]	7.3 (3.1–10.4)	10.6 (8.1–14.7)	12.3 (10.3–14.8)	14.9 (11.4–18.1)	17.0 (15.2–18.7)	16.7 (16.0–18.3)[d]	10.5 (7.8–14.1)[d]	6.7 (3.9–9.2)	2.9 (1.8–4.2)	2.4 (1.4–3.1)	2.7 (0.9–3.2)	6.0 (3.1–10.4)	8.2 (6.4–10.3)
MCRD upstream of the confluence with Mill Creek (MCRD-7)[e]	NA	11.6 (8.4–14.5)	12.6 (10.1–15.9)	14.8 (11.3–21.9)	17.1 (15.2–19.2)	NA	NA	NA	NA	NA	NA	NA	NA
Mill Creek downstream of the confluence with the MCRD (LMC-5)	8.0 (3.5–12.1)	10.4 (5.6–15.6)	12.3 (9.3–16.1)	13.8 (9.4–17.6)	15.2 (12.3–17.7)	12.3 (9.9–15.8)	7.5 (4.0–13.7)	5.3 (2.5–8.1)	3.4 (0.0–6.5)	2.4 (0.0–4.6)	3.4 (0.0–7.9)	6.7 (2.4–11.9)	7.6 (3.8–12.2)
Mill Creek near Mono City (LMC-8)	8.2 (3.2–12.2)	10.6 (5.5–15.7)	12.5 (9.1–16.3)	14.0 (9.6–17.8)	15.3 (12.3–18.0)	12.5 (9.7–16.2)	7.6 (3.5–14.1)	5.3 (2.0–9.1)	3.0 (0.0–8.5)	1.9 (0.0–4.4)	3.0 (0.0–8.5)	6.8 (2.2–12.2)	7.7 (3.7–12.6)
Mill Creek near Mono Lake (LMC-9)	9.2 (1.9–18.7)	11.2 (5.0–18.4)	13.0 (8.8–17.7)	14.7 (9.6–20.0)	15.6 (11.7–20.0)	13.0 (8.8–20.1)	7.8 (2.5–15.7)	5.1 (0.3–11.8)	2.4 (0.0–8.5)	1.1 (0.0–5.4)	2.7 (0.0–12.5)	7.2 (1.1–14.1)	8.0 (2.9–14.4)
Monthly Air Temperature (ºC) (average [minimum to maximum])													
Monitoring Station (AT-10)	7.9 (-4.5–23.1)	11.6 (-4.1–30.3)	16.6 (-1.2–32.9)	19.2 (5.4–35.3)	19.9 (7.3–35.7)	14.2 (3.1–29.3)	8.6 (-5.4–22.3)	5.2 (-6.2–24.0)	3.7 (-8.3–20.1)	-0.8 (-11.8–13.5)	0.6 (-10.9–16.1)	9.5 (-9.0–27.7)	5.7 (-9.9–21.0)

°C = degrees Celsius; NA = data not available

Notes:

[a] Temperature monitoring began on April 8, 2025; statistics presented represent the partial monitoring period from April 8 to April 30, 2025.

[b] July statistics include data collected during flow variations (50–150 cfs) for the Fish Stranding (AQ-2) Study from July 22 to 28, 2025.

[c] Monthly average, minimum, and maximum water temperatures were calculated using continuous 15-minute interval data collected throughout the reporting period.

[d] The Lundy Powerhouse Tailrace was not flowing from approximately September 3, 2025, to October 3, 2025; these data represent the periods from September 1 to 2, 2025 and October 4 to 31, 2025 when the tailrace was flowing.

[e] Statistics are limited to periods when the Mill Creek Return Ditch was operating; the temperature logger was submerged from approximately May 16, 2025, to July 20, 2025, and from August 1, 2025, to August 19, 2025.

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4.2. INCIDENTAL OBSERVATIONS

Didymosphenia geminata (Didymo), a benthic diatomaceous alga, was observed during field work at five water temperature monitoring sites (Table 4.2-1). Samples were collected at a subset of sites and visually examined under a compound microscope to confirm identification.

Table 4.2-1. Incidental *Didymosphenia geminata* Observations Within the Lundy Lake Study Area, 2025

Site Description (Site ID)	Date Observed (2025)	Date Observed (2026)
Mill Creek upstream of Lundy Lake (UMC-1)	4/8, 8/19	4/20
Mill Creek downstream of Lundy Lake (MCBR-2)	6/9, 7/15	4/20
Lundy Powerhouse Tailrace (LPH-6)	4/8, 6/9, 7/15, 8/19	4/20
MCRD upstream of the confluence with Mill Creek (MCRD-7)	8/19	NO
Mill Creek near Mono Lake (LMC-9)	4/8, 8/19	NO

NO = not observed



Figure 4.2-1. *Didymosphenia geminata* at Site LPH-6, April 2025 (left) and August 2025 (right).

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APPENDIX A
WATER TEMPERATURE FIGURES

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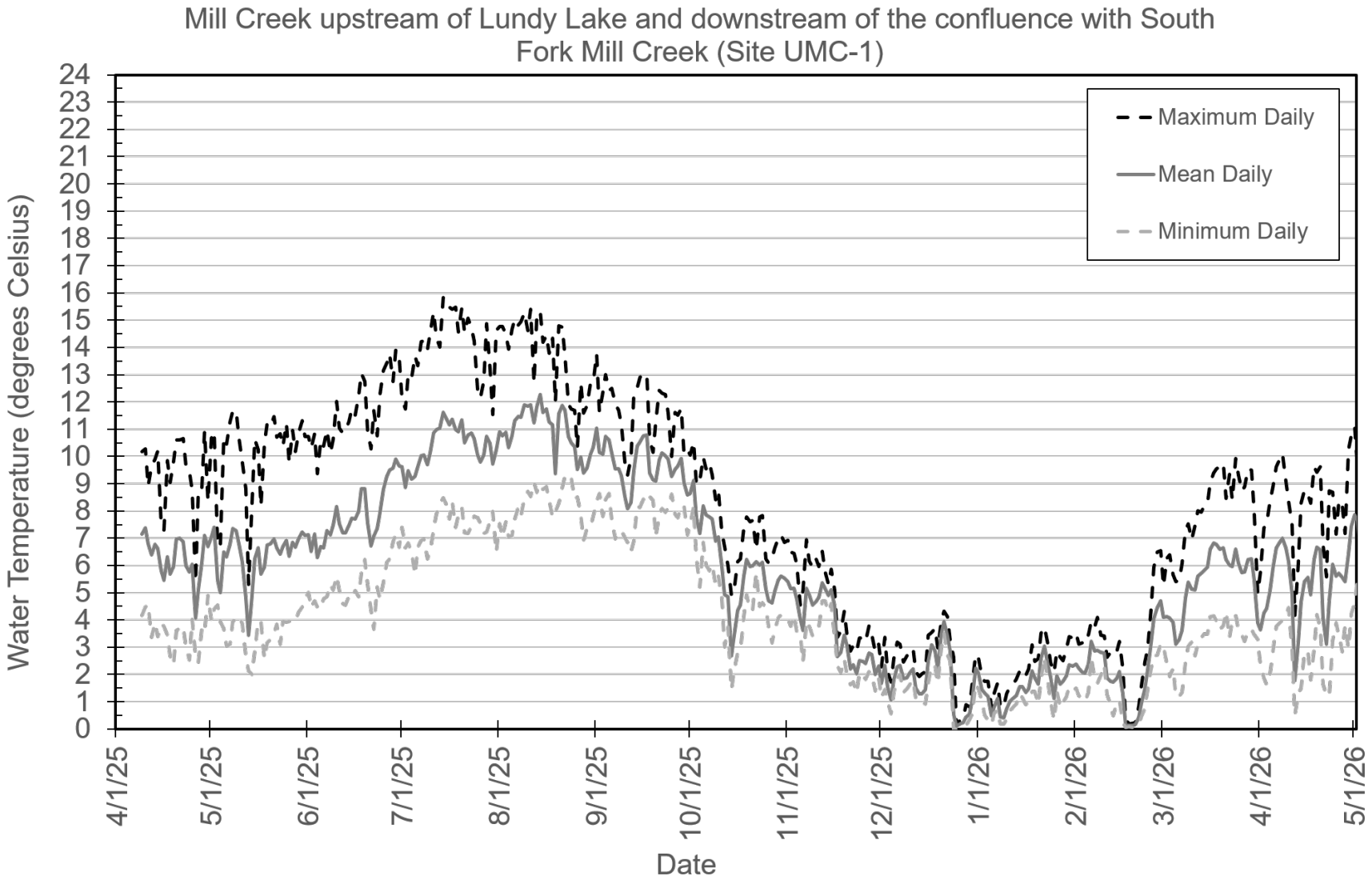


Figure A-1. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Upstream of Lundy Lake and Downstream of the Confluence with South Fork Mill Creek (Site UMC-1), April 2025–April 2026.

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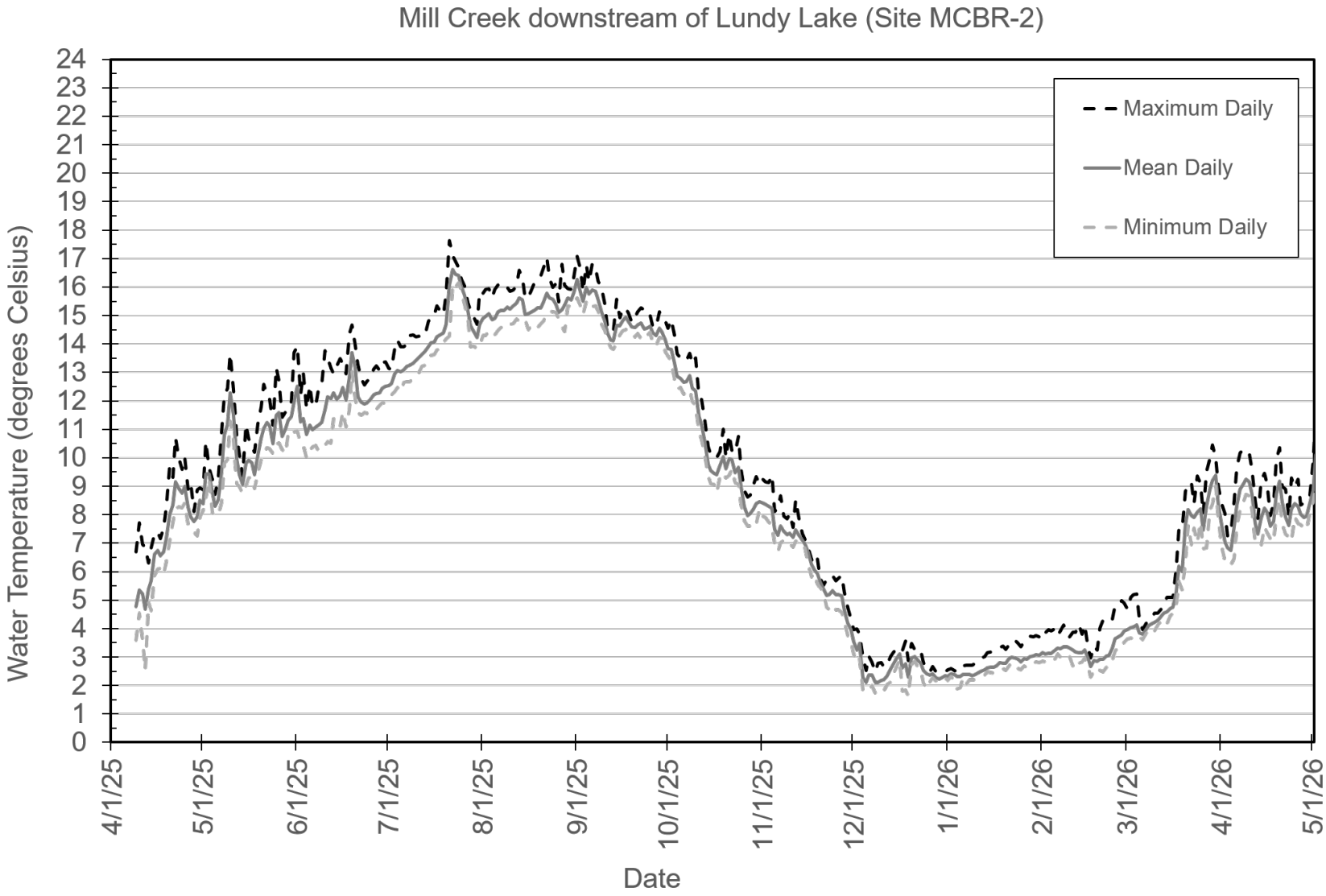


Figure A-2. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Downstream of Lundy Lake (Site MCBR-2), April 2025–April 2026.

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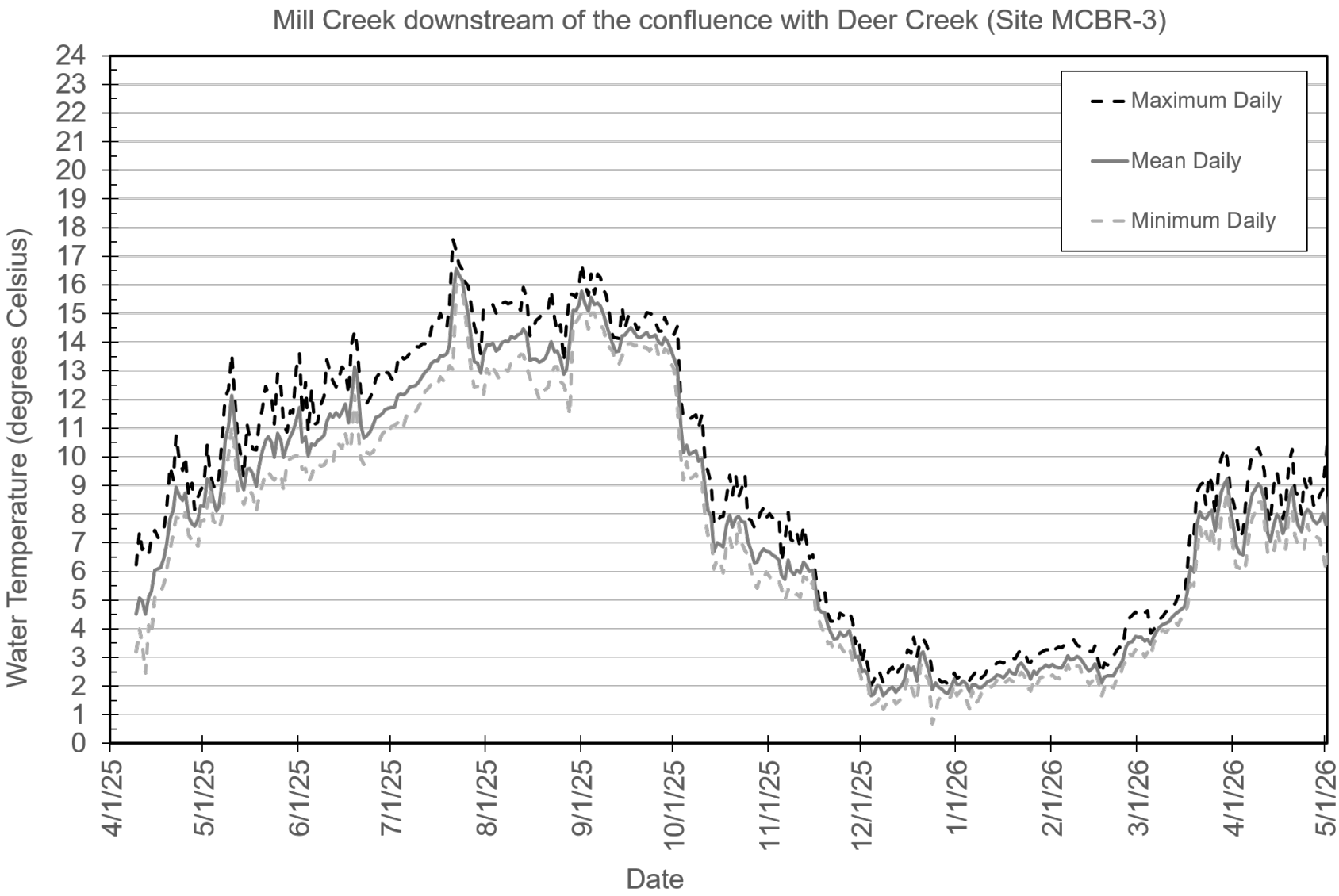


Figure A-3. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Downstream of the Confluence with Deer Creek (Site MCBR-3), April 2025–April 2026.

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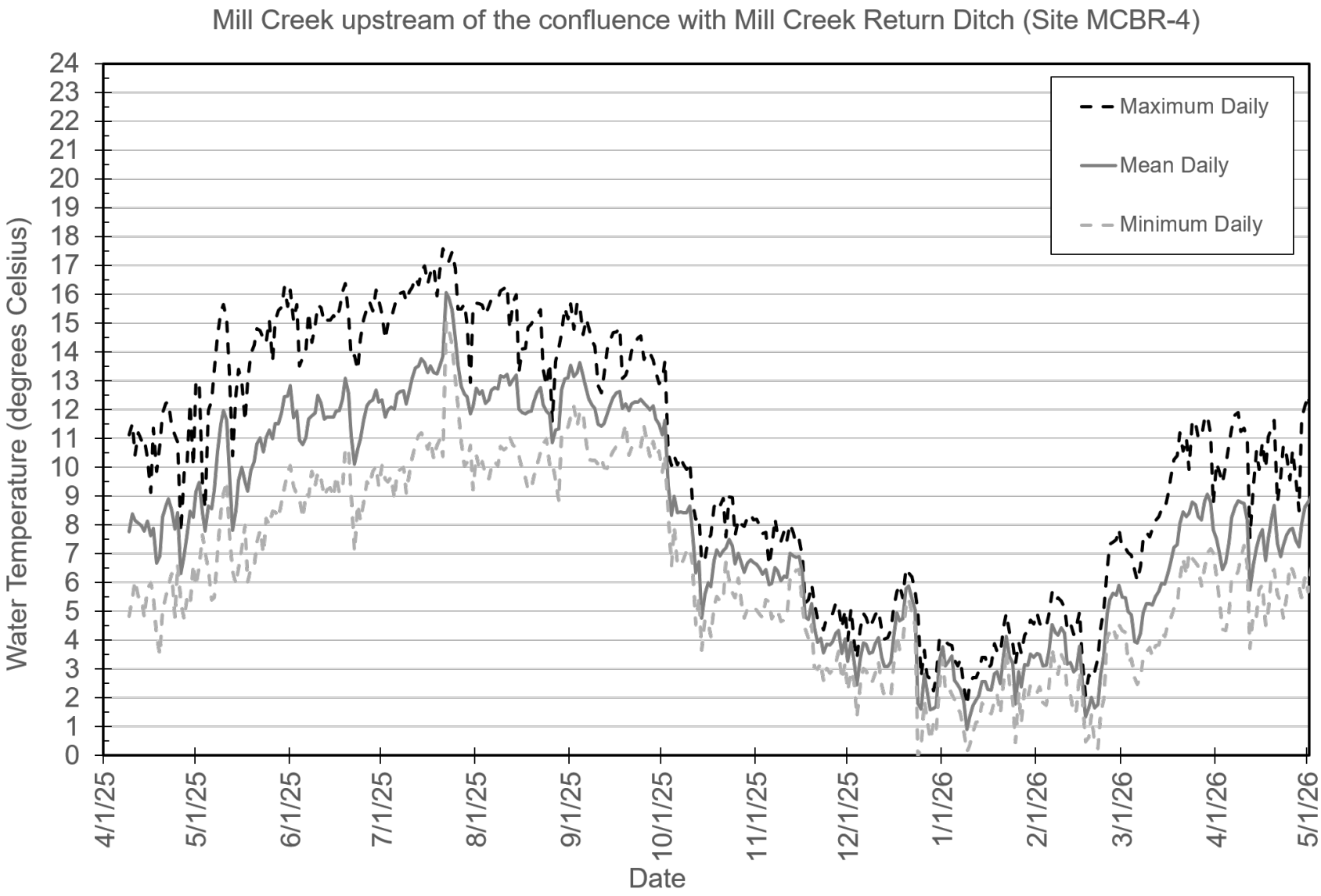


Figure A-4. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Upstream of the Confluence with Mill Creek Return Ditch (Site MCBR-4), April 2025–April 2026.

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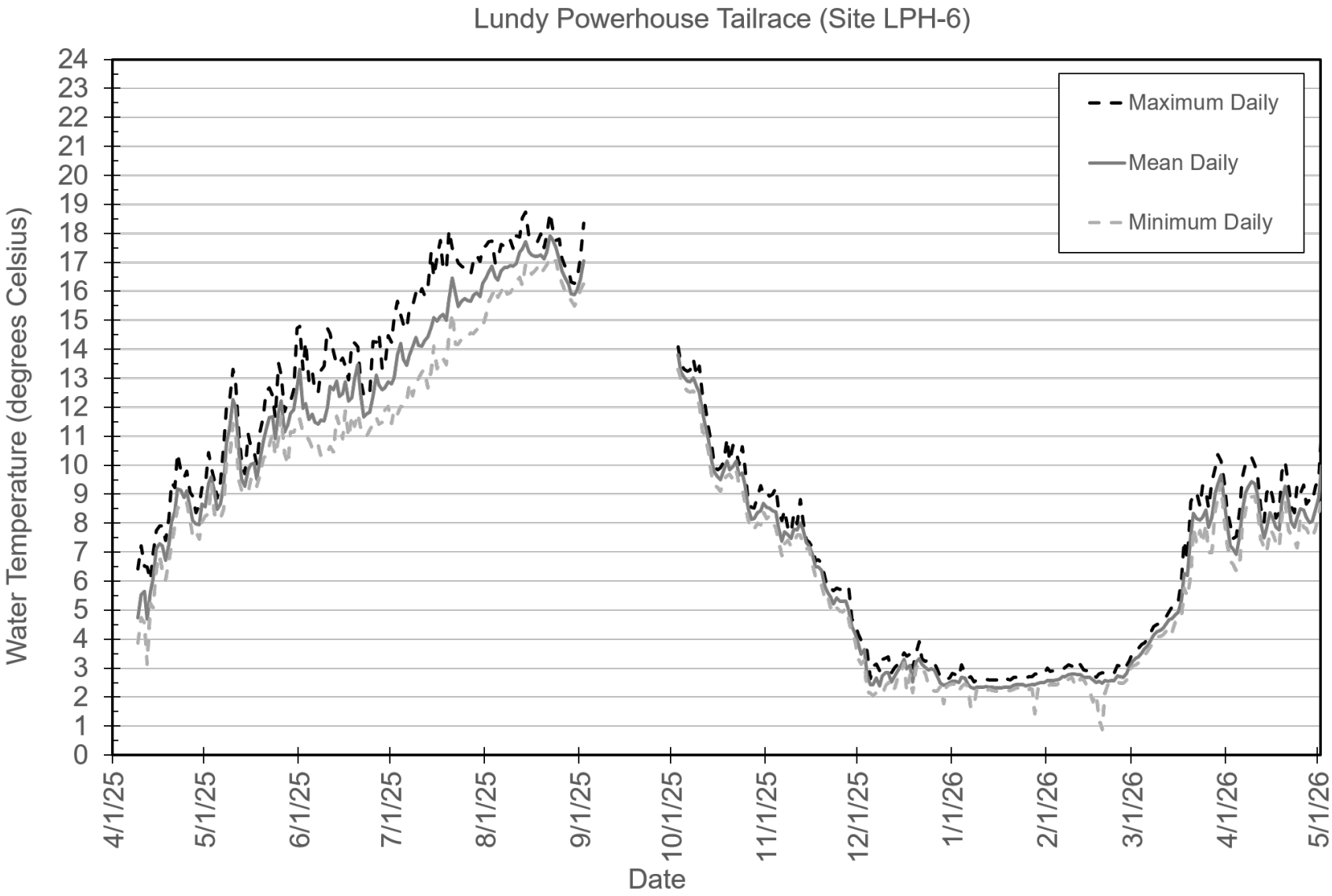


Figure A-5. Maximum, Mean, and Minimum Daily Water Temperatures, Lundy Powerhouse Tailrace (Site LPH-6), April 2025–April 2026.

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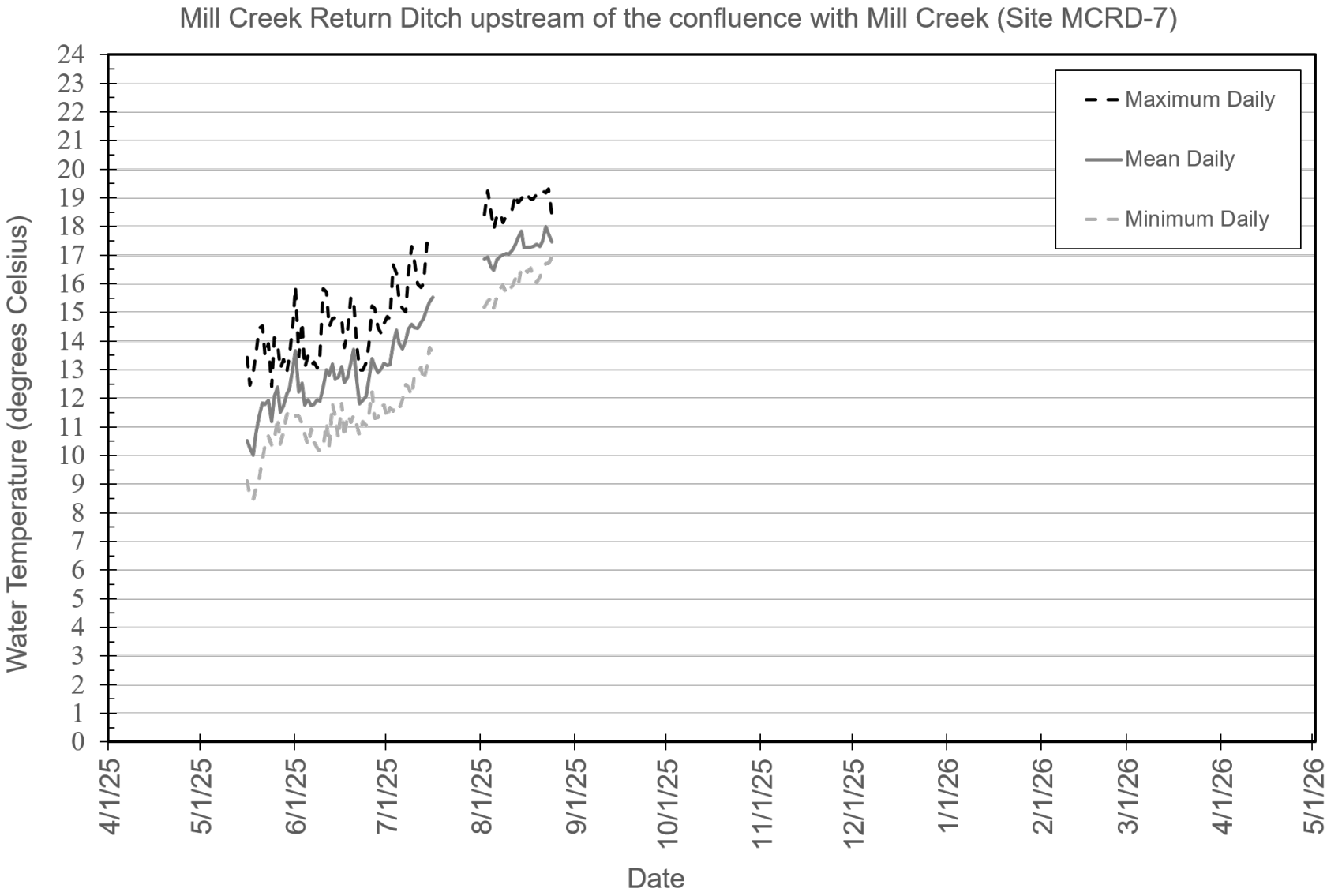


Figure A-6. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Return Ditch Upstream of the Confluence with Mill Creek (Site MCRD-7), April 2025–April 2026.

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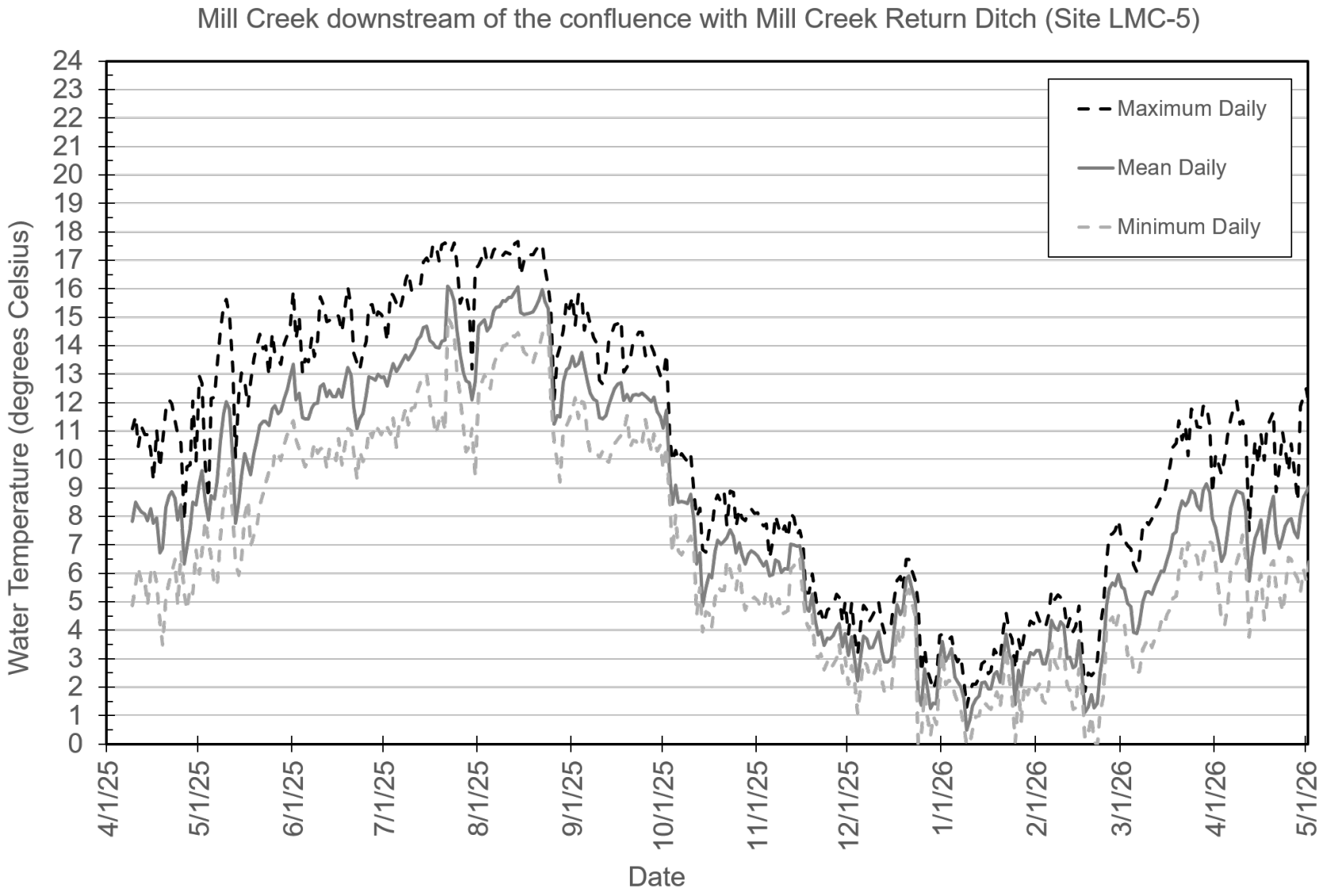


Figure A-7. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Downstream of the Confluence with Mill Creek Return Ditch (Site LMC-5), April 2025–April 2026.

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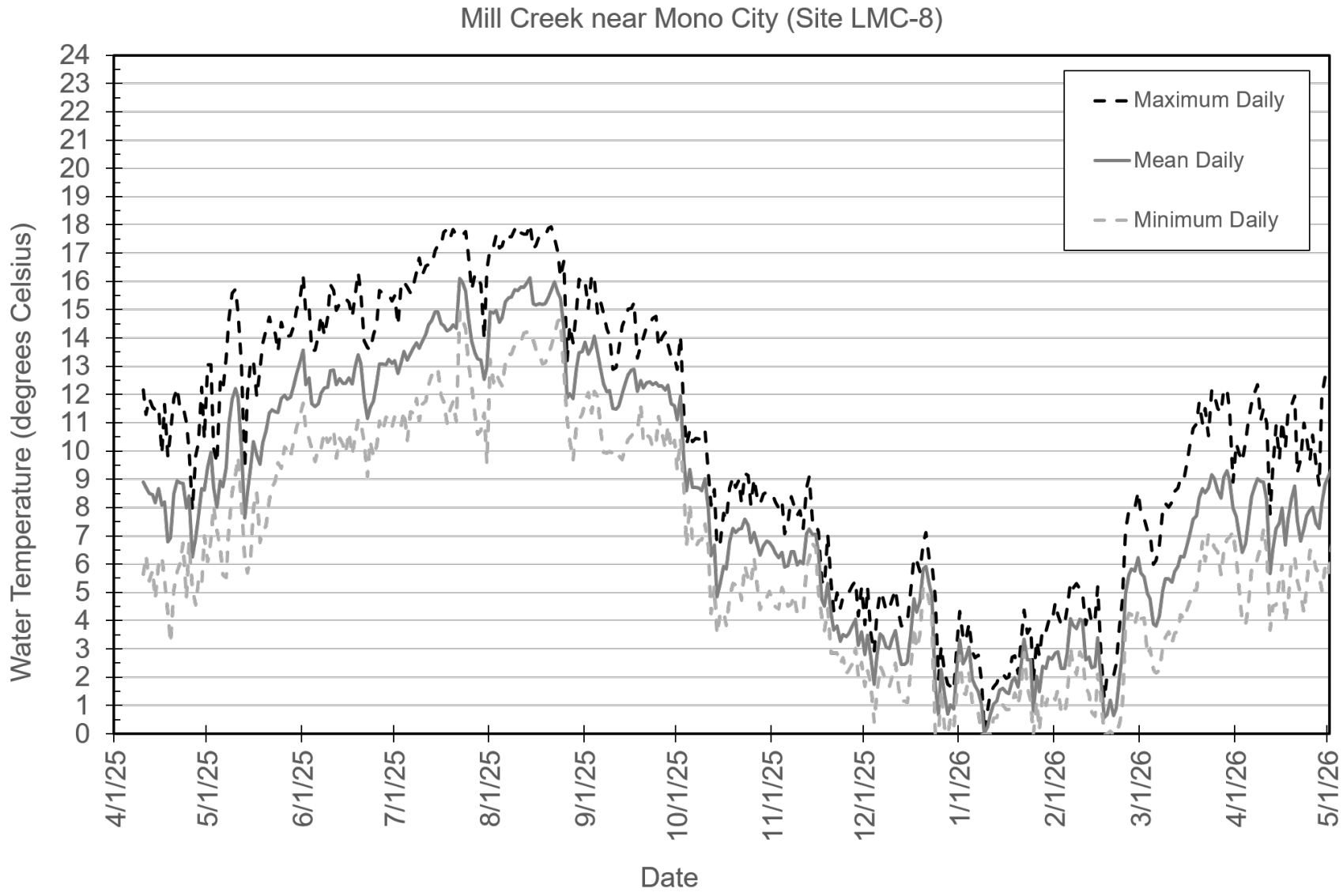


Figure A-5. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek near Mono City (Site LMC-8), April 2025–April 2026.

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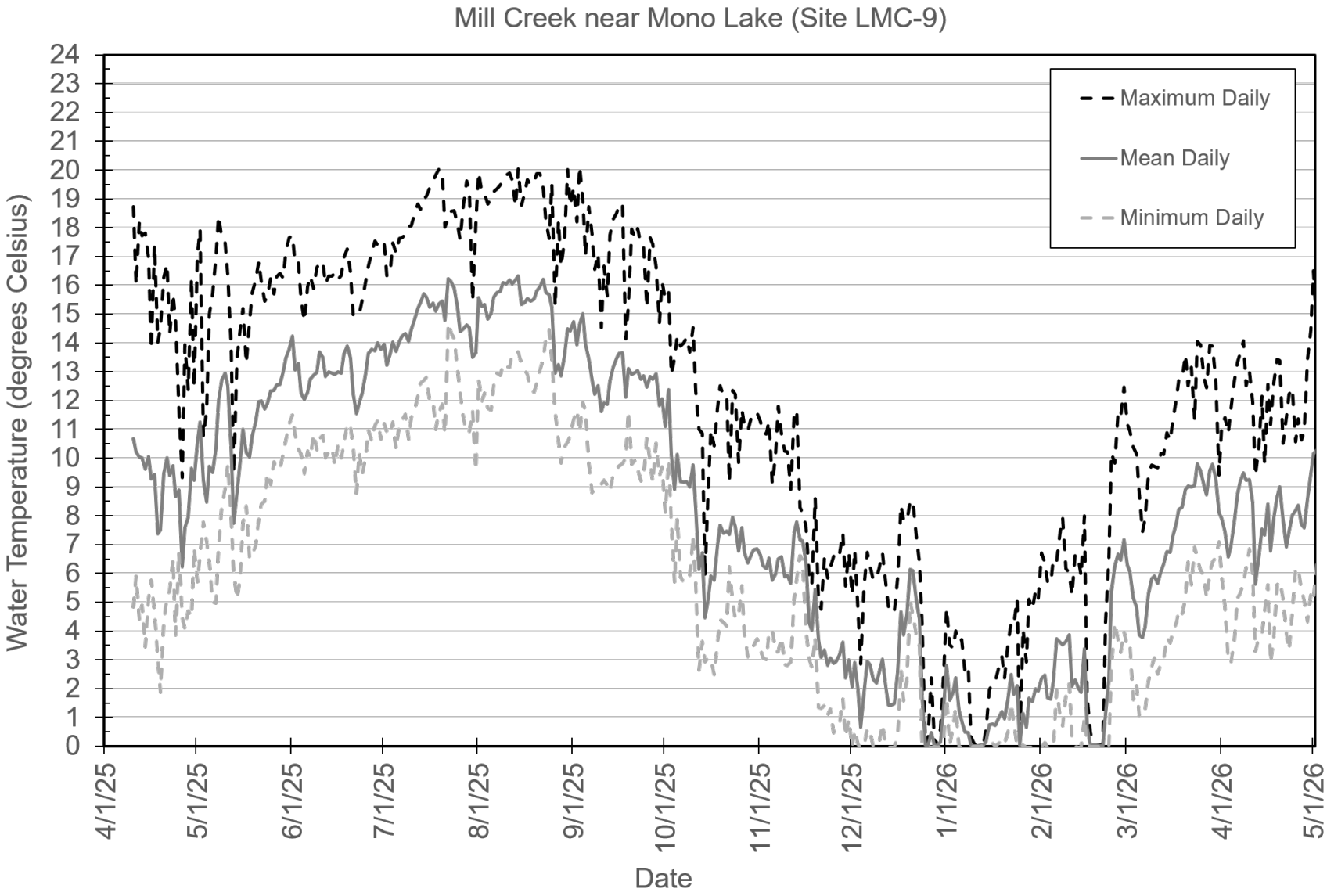


Figure A-6. Maximum, Mean, and Minimum Daily Water Temperatures, Mill Creek Near Mono Lake (Site LMC-9), April 2025–April 2026.

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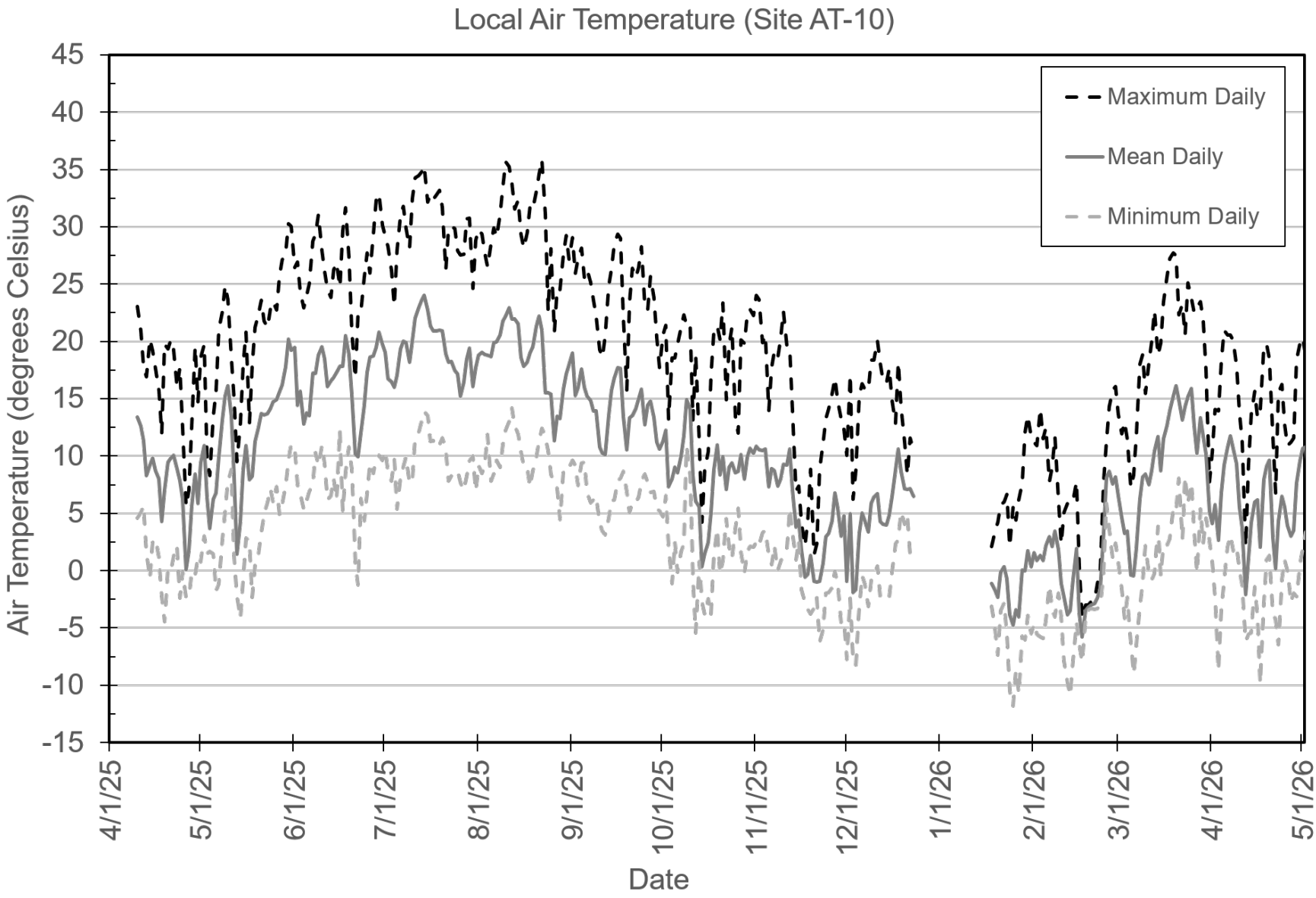


Figure A-7. Maximum, Mean, and Minimum Daily Air Temperatures (Site AT-10), April 2025–April 2026.

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SOUTHERN CALIFORNIA EDISON
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FISH COMMUNITY SURVEY (AQ-1)
DRAFT TECHNICAL REPORT

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October 2026

TABLE OF CONTENTS

Page

1.0 Introduction 1
1.1. Review of Existing Information 1
2.0 Study Goals and Objectives 3
2.1. Study Area 3
3.0 Methods 7
3.1. Stream Fish Surveys 7
3.1.1. Electrofishing 7
3.2. Reservoir Fish Surveys 8
3.2.1. Gill Netting 8
3.2.2. Shoreline Boat Electrofishing 8
3.3. Data Analysis 9
3.4. Literature Review 10
3.5. Incidental Observations 10
3.6. Modifications to Methods 10
3.7. Variances to Approved Methods 11
4.0 Study Results 11
4.1. Stream Fish Results 11
4.1.1. Fish Species Composition and Distribution 11
4.1.2. Density and Biomass 12
4.1.3. Age-Class Distribution 15
4.1.4. Fish Condition 19
4.1.5. Habitat Conditions 20
4.2. Reservoir Fish Results 21

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4.2.1. Fish Species Composition 21
4.2.2. Catch Per Unit Effort 22
4.2.3. Age-Class Distribution 24
4.2.4. Fish Condition 26
4.2.5. Site Conditions 26
4.3. Literature Review 26
4.4. Incidental Observations 27
5.0 References 27

LIST OF TABLES

Table 1.1-1. Rainbow Trout Stocking Information for Mill Creek and Lundy Lake, 2017 through 2025 1
Table 2.1-1. Mill Creek and Lundy Lake Fish Community Study Sites, 2025 4
Table 4.1-1. Mill Creek Fish Population Estimated Density, Biomass, and Abundance, August 2025 13
Table 4.1-2. Estimated Trout Age in Mill Creek Based on Length Frequency Histograms, Scale Analysis, and Literature Values 16
Table 4.1-3. Trout Condition (k-value) Calculated for Fish Captured in Mill Creek, August 2025 20
Table 4.1-4. Habitat Conditions at Mill Creek Fish Study Sites, August 2025 21
Table 4.1-5. Water Quality at Mill Creek Fish Study Sites, August 2025 21
Table 4.2-1. Catch Per Unit Effort by Survey Method for Fish Species Captured in Lundy Lake, August 2025 23
Table 4.2-2. Estimated Trout Age in Lundy Lake Based Scale Analysis and Literature Values 24
Table 4.2-3. Fish Condition (k-value) Calculated for Trout Captured in Lundy Lake, August 2025 26

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Table 4.2-4. Water Quality Conditions at Fish Sampling Locations in Lundy Lake, August 2025 26

LIST OF FIGURES

Figure 2.1-1. Mill Creek Fish Community Study Sites, 2025. 5

Figure 2.1-2. Lundy Lake Fish Community Study Sites, 2025. 6

Figure 4.1-1. Mill Creek Fish Species Composition, August 2025. 11

Figure 4.1-2. Estimated Trout Density (with 95-Percent Confidence Intervals) at Mill Creek Fish Study Sites, August 2025. 14

Figure 4.1-3. Estimated Trout Biomass (with 95-Percent Confidence Intervals) at Mill Creek Fish Study Sites, August 2025. 14

Figure 4.1-4. Estimated Trout Abundance (with 95-Percent Confidence Intervals) at Mill Creek Fish Study Sites, August 2025. 15

Figure 4.1-5. Length Frequency and Age-Class Distribution for Brook Trout Captured in Mill Creek at Site MC-1, August 2025. 17

Figure 4.1-6. Length Frequency and Age-Class Distribution for Brown Trout Captured in Mill Creek at Site MC-1, August 2025. 17

Figure 4.1-7. Length Frequency and Age-Class Distribution for Brown Trout Captured in Mill Creek at Site MC-2, August 2025 18

Figure 4.1-8. Length Frequency and Age-Class Distribution for Brown Trout Captured in Mill Creek at Site MC-3, August 2025. 19

Figure 4.2-1. Lundy Lake Fish Species Composition, August 2025. 22

Figure 4.2-2. Length-Frequency and Age-Class Distribution for Brown Trout Captured in Lundy Lake, August 2025. 25

Figure 4.2-3. Length-Frequency and Age-Class Distribution for Rainbow Trout Captured in Lundy Lake, August 2025. 25

LIST OF APPENDICES

Appendix A Mill Creek and Lundy Lake Fish Photographs

Appendix B Mill Creek Fish Capture Data

Appendix C Fish Community Stream Survey Site Photographs

Appendix D Lundy Lake Fish Capture Data

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Appendix E Lundy Lake Water Quality Data
Appendix F Literature Review

LIST OF ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µS/cm	microsiemens per centimeter

C

CDFW	California Department of Fish and Wildlife
cfs	cubic feet per second
CPUE	catch per unit effort

F

FERC	Federal Energy Regulatory Commission
FL	fork length
ft^2	square feet

G

g	grams
GPS	Global Positioning System

M

m	meters
MCRD	Mill Creek Return Ditch
mg/L	milligrams per liter
mm	millimeters

P

Project	Lundy Hydroelectric Project (FERC Project No. 1390)

S

SCE	Southern California Edison

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SPD	Study Plan Determination
s.u.	standard unit

T

TL	total length

Y

YOY	young-of-year

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct a Fish Community Survey (AQ-1) to evaluate fish populations within the Project reservoir (Lundy Lake) and Project-affected stream reaches of Mill Creek for the Lundy Hydroelectric Project (FERC Project No. 1390). FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the study as filed (SCE, 2024).

Project operations have the potential to affect fish populations in Project-affected stream reaches of Mill Creek and in Lundy Lake. Project operations can affect physical habitat conditions as well as water quantity and water quality, which in turn influence fish species' abundance, distribution, and community structure.

AQ-1 was conducted to evaluate fish populations within Project-affected stream reaches of Mill Creek and Lundy Lake following methods described in the FERC approved the *AQ-1 Fish Community Survey Study Plan* (SCE, 2024) This report includes the results of stream fish sampling completed in Mill Creek and reservoir fish sampling in Lundy Lake during 2025. Supplemental fish population data collected during 2026 will be included in the technical report filed with the Updated Study Report.

1.1. REVIEW OF EXISTING INFORMATION

Historically, the Mill Creek watershed and other tributaries to Mono Lake were fishless (FERC, 1992; Moyle, 2002). Currently, non-native introduced trout species, including brown trout (*Salmo trutta*), brook trout (*Salvelinus fontinalis*), and rainbow trout (*Oncorhynchus mykiss*), are found throughout Lundy Lake and Mill Creek downstream of Lundy Dam. The California Department of Fish and Wildlife (CDFW) stocks sterile rainbow trout within Lundy Lake and Mill Creek to support a put-and-take fishery (CDFW, 2024, Table 1.1-1).

Table 1.1-1. Rainbow Trout Stocking Information for Mill Creek and Lundy Lake, 2017 through 2025

Year	Waterbody	Number	Pounds	Average Weight per Fish (pounds)
2017	Mill Creek	1,400	700	2.00
	Lundy Lake	15,785	8,105	1.95
2018	Mill Creek	1,235	600	2.06
	Lundy Lake	15,860	7,650	2.07
2019	Mill Creek	1,400	700	0.50
	Lundy Lake	9,400	4,700	0.50

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Year	Waterbody	Number	Pounds	Average Weight per Fish (pounds)
2020	Mill Creek	100	50	0.50
	Lundy Lake	1,700	850	0.50
2021	Mill Creek	0	0	--
	Lundy Lake	8,460	1,800	0.20
2022	Mill Creek	0[a]	0[a]	--
	Lundy Lake	0[a]	0[a]	--
2023	Mill Creek	2,950	1,400	0.47
	Lundy Lake	10,160	4,700	0.46
2024	Mill Creek	740	400	0.54
	Lundy Lake	6,040	825	
2025	Mill Creek	0[b]	0[b]	--
	Lundy Lake	5,680	4,000	0.70

Source: personal communication, Graham Meese, CDFW, July 22, 2024
CDFW = California Department of Fish and Wildlife
Notes:
[a] Fish stocking by CDFW did not occur in Lundy Lake or Mill Creek in 2022 due to disease outbreak at CDFW Hatcheries (personal communication, Graham Meese, CDFW, July 22, 2024).
[b] Fish stocking by CDFW did not occur in Mill Creek in 2025 due to limited capacity and high demand to stock waterbodies throughout the eastern Sierra (personal communication, Graham Meese, CDFW, March 13, 2026).

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2.0 STUDY GOALS AND OBJECTIVES

The goal of AQ-1 was to supplement the existing information on abundance, distribution, and structure of recreational fish populations within Lundy Lake and Project-affected stream reaches Mill Creek. To address this goal, this study was designed with the following objectives:

- Assess existing recreational fish populations within Lundy Lake and Project-affected stream reaches of Mill Creek; and
- Conduct a literature review to evaluate the potential for flow releases in the fall and winter to influence brown trout populations in Mill Creek.

2.1. STUDY AREA

The study area included Project-affected stream reaches of Mill Creek and Lundy Lake. This section of the watershed ranges in elevation from approximately 6,900 to 7,800 feet above mean sea level. Fish population sampling was conducted at three stream electrofishing sites in Mill Creek (Table 2.1-1 and Figure 2.1-1) within the following reaches:

- Two sites in the bypass reach between Lundy Dam and Mill Creek Return Ditch (MCRD) (Site MC-1 and Site MC-2); and
- One site in lower Mill Creek between MCRD and Highway 395 (Site MC-3).

Fish population sampling in Lundy Lake was conducted at three gill netting locations, including both littoral and deep-water habitats, and three shoreline boat electrofishing sites (Table 2.1-1 and Figure 2.1-2).

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Table 2.1-1. Mill Creek and Lundy Lake Fish Community Study Sites, 2025

Waterbody	Method	Study Site	Location Coordinates (latitude / longitude)[a]	
			Start[b]	Stop[b]
Mill Creek	Stream Electrofishing	MC-1	38.03295 / -119.21415	38.03296 / -119.21463
		MC-2	38.03123 / -119.18518	38.03123 / -119.18600
		MC-3	38.03740 / -119.16218	38.03763 / -119.16302
Lundy Lake	Reservoir Electrofishing	LL-EF1	38.03059 / -119.22302	38.03143 / -119.22106
		LL-EF2	38.03067 / -119.22914	38.03019 / -119.23033
		LL-EF3	38.02727 / -119.23700	38.02659 / -119.23848
	Reservoir Gill Net[c]	LL-1A	38.03090 / -119.22548	38.03111 / -119.22546
		LL-1J	38.03096 / -119.22612	38.03103 / -119.22614
		LL-2A	38.02791 / -119.22961	38.02771 / -119.22948
		LL-2J	38.02792 / -119.22923	38.02784 / -119.22918
		LL-3A	38.02957 / -119.23388	38.02990 / -119.23389
		LL-3J	38.02966 / -119.23511	38.02973 / -119.23514

Notes:
[a] Decimal degrees; datum: World Geodetic System 84
[b] The stream study sites start and end coordinates are at the downstream and upstream locations, respectively.
[c] Adult gill nets are indicated by an “A” and juvenile gill nets by a “J” in the site name.

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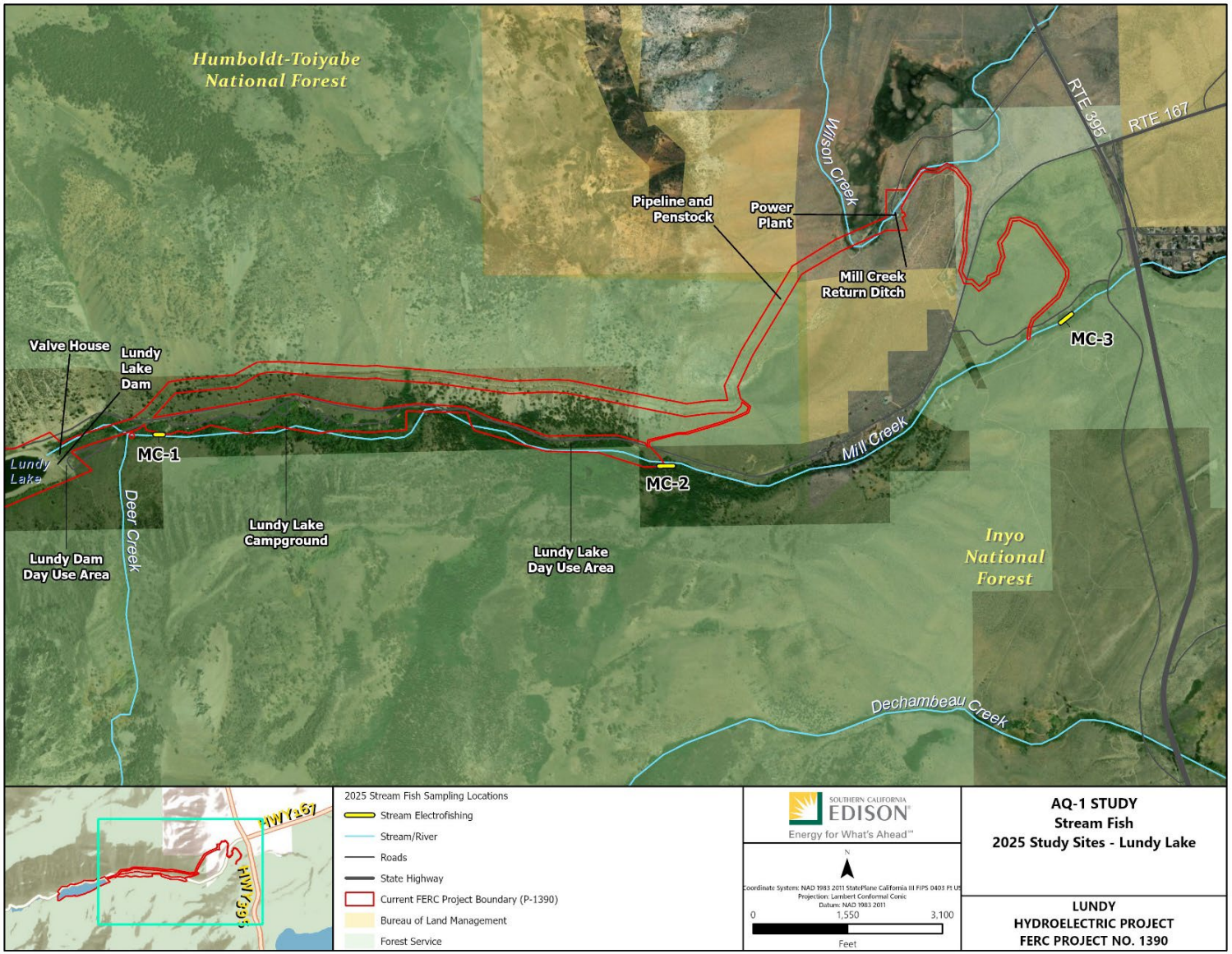


Figure 2.1-1. Mill Creek Fish Community Study Sites, 2025.

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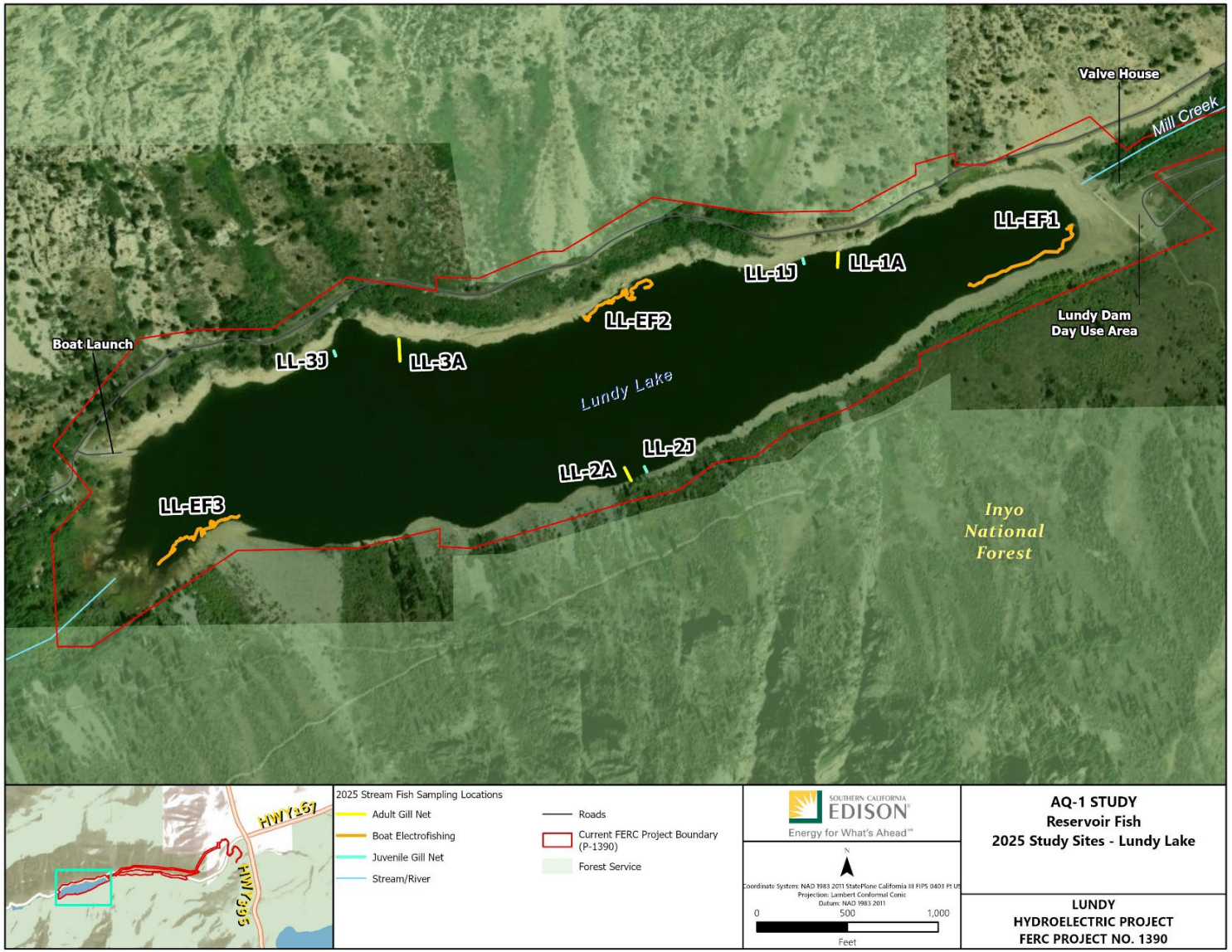


Figure 2.1-2. Lundy Lake Fish Community Study Sites, 2025.

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3.0 METHODS

3.1. STREAM FISH SURVEYS

3.1.1. ELECTROFISHING

Stream fish surveys were conducted from August 27 to 29, 2025. Survey methods included multiple-pass depletion backpack electrofishing at each study site consistent with procedures described by Reynolds (1996).

Study sites ranged from 88 to 92 meters in length. Biologists installed block nets at the upstream and downstream boundaries of each site. A third block net was installed at the approximate mid-point to separate each site into two segments to improve sampling efficiency. Fifty-foot block nets with 1/8-inch-diameter mesh were used to prevent fish migration into and out of the study site and to facilitate an accurate assessment of the sample population. The electrofishing crew included two biologists using Smith-Root Inc. LR-24 backpack electrofishers and two to four netters, depending on the width of the wetted stream channel within the study site. Backpack electrofishers used direct current ranging from 200 volts to 340 volts depending on site conditions (i.e., conductivity).

The electrofishing crew began sampling at the downstream block net and proceeded slowly and deliberately upstream, moving from the center of the channel out to the stream margin and then back to the center. As fish were captured (netted), they were placed in buckets with aerated ambient stream water. A minimum of three passes were conducted within each segment. Fish were measured on a wetted measuring board and weighed using a digital scale before being released. Fish data recorded included species identification, fork length (FL) in millimeters, total length (TL) in millimeters, and weight in grams. All trout were inspected for visual abnormalities, visual markings, or fin erosion, which could suggest fish of hatchery origin. Scale samples were collected from 20 brown trout collected at each study site and 6 brook trout collected at Site MC-1 across a variety of sizes greater than or equal to 50-millimeter FL to assess age and growth relationships. After processing, fish were placed in an aerated bucket of cool stream water. Fish in the recovery bucket were regularly transferred to a live car composed of 1/8-inch-diameter mesh netting located in the stream outside the study site to be held until the completion of the survey. After completion of the survey, all fish were released back into the stream at the area of capture.

Habitat characteristics and water quality parameters were measured at all study sites at the time of sampling. Each segment was characterized by habitat type (e.g., pool, run, or riffle). The length of each segment was measured along the thalweg to the nearest one-tenth of a meter, and the mean width of each sampling segment was calculated by measuring the width of the wetted channel to the nearest one-tenth of a meter at six or more evenly spaced transects. The area of each sampling segment was calculated by multiplying the site length by mean width. The maximum depth and the stream discharge of the sample site were recorded. Discharge measurements were collected with a Hach FH950 consistent with the CDFW (2020) standard operating procedure for discharge measurements in wadeable streams in California. Dominant and subdominant substrate

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types along with fish cover were visually estimated at each sample segment. Water temperature, dissolved oxygen, pH, conductivity, and specific conductivity were measured using a calibrated multiparameter sonde (YSI EXO2, Yellow Springs Instruments) at the time of sampling.

3.2. RESERVOIR FISH SURVEYS

Reservoir fish surveys on August 25 and 26, 2025 were conducted using a combination of gill netting and boat electrofishing techniques. Captured fish were placed in a container with aerated ambient reservoir water for processing. Fish were measured on a wetted measuring board and weighed using a digital scale Fish data recorded included species identification, FL, TL, and weight. All trout were inspected for visual abnormalities, visual markings, or fin erosion, which could suggest fish of hatchery origin. Scale samples were collected from up to 20 fish of each game species to assess age composition. After processing, all fish were allowed to recover in a container with aerated ambient reservoir water and were then released back into the reservoir.

In addition to fish data, the survey crew recorded the gear type used and general location conditions for each study site including Global Positioning System (GPS) coordinates. Water quality parameters (i.e., water temperature, dissolved oxygen, pH, conductivity, and specific conductivity) were measured approximately 1.5 meters below the water's surface using a calibrated multiparameter sonde (YSI™ EXO2, Yellow Springs Instruments).

3.2.1. GILL NETTING

Gill nets with variably sized mesh for adults and juveniles were used to collect fish species to assess composition and distribution in Lundy Lake. Gill nets were deployed in Lundy Lake perpendicular to the reservoir shoreline and submerged along the gradient of the reservoir bottom. The sample locations were selected to cover a range of habitat conditions within Lundy Lake, including both shallow- and deep-water areas and locations distributed along the length of the reservoir.

Adult-sized mesh gill nets consisted of mesh sizes ranging from 0.75 to 2.50 inches and measured between approximately 75 and 120 feet long by 6 feet tall. Juvenile-sized mesh gill nets consisted of three 10-foot panels with mesh sizes of 0.25, 0.50, and 0.75 inch, measured 30 feet long and 6 feet deep. Gill nets were set for two periods of approximately 4.2 to 5.4 hours at a time. Gill nets were deployed in the afternoon and again at nighttime to facilitate good coverage and to separate diel periods. Biologists also recorded time of deployment, minimum and maximum water depths, and net type at each gill net station.

3.2.2. SHORELINE BOAT ELECTROFISHING

Shoreline boat electrofishing was conducted using standard methods (Reynolds, 1996). Boat electrofishing equipment included a 14-foot Zodiac boat equipped with a Smith-Root Inc. 1.5-kilovolt-ampere electrofisher control box, two anode booms, and a cathode array. During sampling, electrofisher settings were set to direct current at 400 volts based on

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fish reaction. Sampling was conducted at night when fish are more likely to be found in shallow-water nearshore habitat to increase capture probability.

Electrofishing stations were approximately 260 meters in length and located in areas representing a diversity of nearshore habitats. Sampling stations were documented using GPS tracking. Electrofisher "time on" was recorded for each sampling location and a consistent pace and effort was employed at all sites. Fish and water quality data were collected using the same methods as described in Section 3.2.

3.3. DATA ANALYSIS

Data collected during the stream and reservoir fish surveys were entered into an Excel database for data reduction, tabulation, and summary. For each stream site, trout densities (number per acre), biomass (pounds per acre), abundance (fish per mile), and 95-percent confidence intervals were computed using the Zippin estimator within the multiple-pass regression analysis software developed by Van Deventer and Platts (1989). Reservoir fish capture results were reported both as total catch and in terms of catch per unit effort (CPUE). The CPUE for fish captured by boat electrofishing was calculated by dividing the number of fish of each species captured by the total surface area of water sampled using lengths obtained with the hand-held GPS and widths that were estimated based on the boat's distance from shore and the effective shock area around the anodes, multiplied by the length of time fished (e.g., fish/ [feet^2 x hour]). The CPUE for fish captured by gill net was calculated by dividing the number of fish captured by the dimensions of the gill net, multiplied by the length of the time fished (e.g., fish / [feet^2 x hour]).

Trout size distribution was evaluated at all stream and reservoir study sites. Length-frequency histograms were developed for each trout species captured and used to estimate age-class distribution. Age was estimated based on breaks and modalities within the histograms and compared with results from the scale-age analysis. Trout scales used in the scale-age analysis were cleaned and examined under a microscope. Only clear, fully formed scales that were not regenerated or damaged were used in the analysis to ensure accurate age estimates. Suitable scales were mounted on a microscope slide. A minimum of three scales per trout were aged. Quality assurance/quality control review was completed on a subset (25 percent) of the scale age estimates to ensure accurate age estimates.

To assess trout condition, the weight-to-length relationship of individual fish was assessed as a method of identifying the nutritional state or health of the fish related to size and growth. Fulton's condition factor (k) (Ricker, 1975), a measure of this nutritional state, was calculated for each fish using the following formula:

$$\text{Individual condition factors } (k) = \frac{\text{Wet Weight (g)} \times 10^5}{[\text{Fork Length (mm)}]^3}$$

Mean fish condition was calculated from individual condition values for each species. The typical mean condition factors for wild trout range from 0.8 to 1.2 (Beak, 1991; EA, 1987;

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Ebasco Environmental, 1993; Wilcox, 1994); however, condition is dependent on the sampling season, species, strain of trout, state of sexual maturity, and the way fish length is defined (e.g., FL, TL, or standard length), which is not often documented with the results.

3.4. LITERATURE REVIEW

A literature review was conducted to synthesize available information on the potential influence of high magnitude releases (i.e., greater than 60 cubic feet per second [cfs]) in the fall or winter from Lundy Dam on brown trout populations in Mill Creek. Sources of information that were considered in this review included the following:

- McBain and Trush, Inc., and Ross Taylor and Associates. 2010. *Mono Basin Stream Restoration and Monitoring Program: Synthesis of Instream Flow Recommendations to the State Water Resources Control Board and the Los Angeles Department of Water and Power Final Report*. April 20.

- George, S. D., B. P. Baldigo, A. J. Smith, G. R. Robinson. 2015. “Effects of Extreme Floods on Trout Populations and Fish Communities in a Catskill Mountain River.” *Freshwater Biology* 60, 2511–2522.

- Strange E. M., P. B. Moyle, and T. C. Foin. 1992. “Interactions between Stochastic and Deterministic Processes in Stream Fish Community Assembly.” *Environmental Biology of Fishes* 36, 1–15.

- Warren D. R., A. G. Ernst, and B. P. Baldigo. 2009. “Influence of Spring Floods on Year Class Strength of Fall- and Spring-Spawning Salmonids in Catskill Mountain Streams.” *Transactions of the American Fisheries Society* 138, 200–210.

3.5. INCIDENTAL OBSERVATIONS

Incidental observations of special-status species or aquatic invasive species (e.g., Didymo [*Didymosphenia geminata*], American bullfrog [*Lithobates catesbeianus*], New Zealand mud snail [*Potamopyrgus antipodarum*], or bivalves) were noted (including location information) and reported in Section 4.4.

3.6. MODIFICATIONS TO METHODS

SCE is proposing one modifications to AQ-1 as approved by FERC in its SPD (FERC, 2025).

- In response to comments received by CDFW (SCE, 2026a) on the Initial Study Report (SCE, 2026b), SCE will confirm species composition in Lundy Lake by conducting a supplemental gillnetting effort in 2026.

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3.7. VARIANCES TO APPROVED METHODS

SCE encountered the following variances when implementing the *AQ-1 Fish Community Survey Study Plan* as approved by FERC in its SPD (FERC, 2025):

- In response to comments received by CDFW (SCE, 2026a) on the Initial Study Report (SCE, 2026b), trout abundance (number of fish per linear stream mile) was calculated and reported for each stream site and photographs from Lundy Lake gill netting efforts were included in Appendix A.

4.0 STUDY RESULTS

4.1. STREAM FISH RESULTS

4.1.1. FISH SPECIES COMPOSITION AND DISTRIBUTION

Two species of fish were observed during the stream fish sampling effort—brown trout and brook trout (Figure 4.1-1). Brown trout were the most abundant species captured during the sampling efforts and were found throughout all study sites (Figure 4.1-1). Brook trout were uncommon during the sampling efforts and were only captured at the most upstream study site (MC-1) (Figure 4.1-1). Photographs of fish captured in Mill Creek are included in Appendix A.

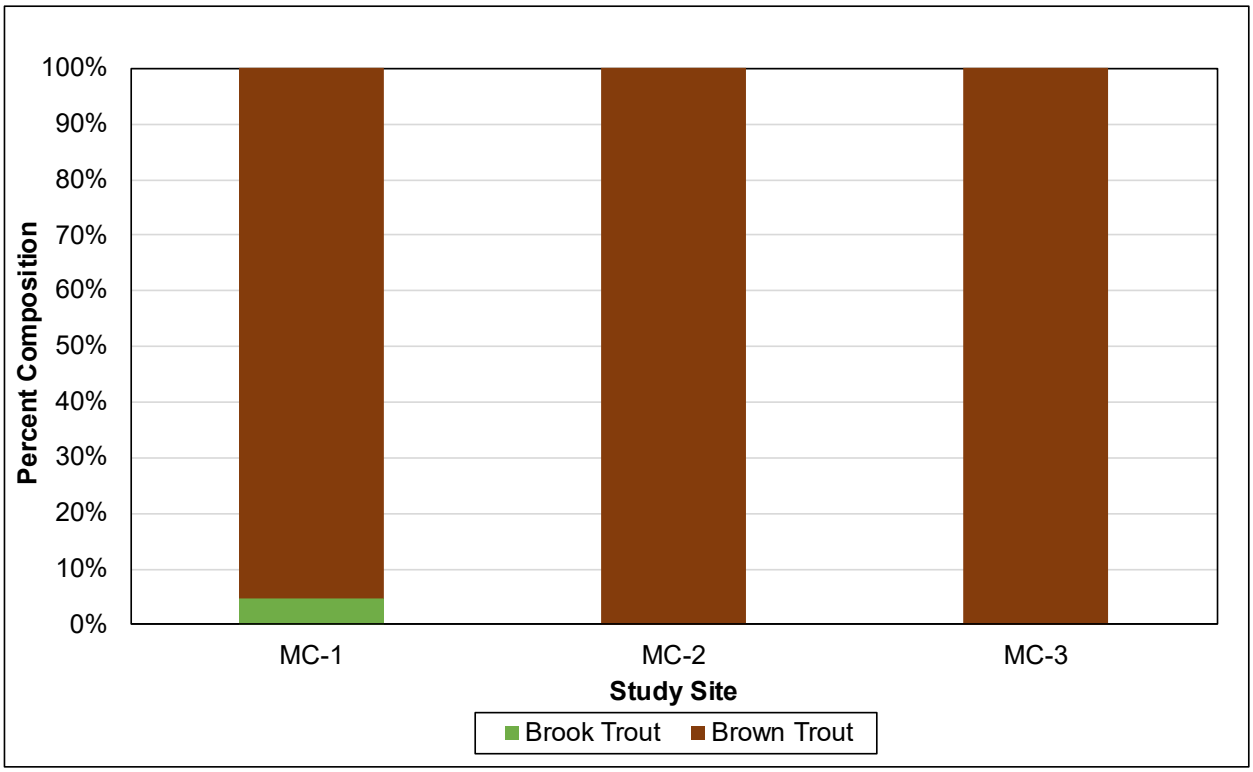


Figure 4.1-1. Mill Creek Fish Species Composition, August 2025.

4.1.2. DENSITY AND BIOMASS

Estimates of all fish (brown and brook trout combined) density and abundance were lowest at the upstream study site (MC-1) and highest at the downstream study site (MC-3), while estimates for biomass were similar between the upstream and downstream study sites and lowest at the middle study site (MC-2) (Table 4.1-1, Figure 4.1-2, Figure 4.1-3, and Figure 4.1-4). Brook trout were only captured at the upstream study site (MC-1), whereas brown trout were captured at all study sites.

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Table 4.1-1. Mill Creek Fish Population Estimated Density, Biomass, and Abundance, August 2025

Study Site	Site Length (m)	Avg. Site Width (m)	Species	Depletion Pattern[1]	Total Captured	Density (fish per acre)			Biomass (pounds per acre)			Abundance (fish per mile)		
						Est.	Lower 95% C.I.	Upper 95% C.I.	Est.	Lower 95% C.I.	Upper 95% C.I.	Est.	Lower 95% C.I.	Upper 95% C.I.
MC-1	92.4	3.9	Brook Trout	3, 3, 0	6	74	46	102	5.6	3.5	7.8	114	70	158
			Brown Trout	86, 21, 13	120	1,414	1,344	1,484	175.0	166.3	183.6	2,176	2,068	2,283
			All trout	89, 24, 13	126	2,288	2,175	2,401	180.6	171.7	189.6	2,288	2,175	2,401
MC-2	79.9	5.2	Brown Trout	128, 50, 18	196	2,041	1,940	2,141	117.6	111.8	123.4	4,179	3,973	4,386
MC-3	87.5	4.3	Brown Trout	169, 48, 24	241	2,703	2,606	2,801	171.3	165.1	177.5	4,624	4,456	4,791

Avg = average; C.I. = confidence interval; Est. = Estimate; m = meters
Note:
[1] Depletion pattern refers to the decline in catch across successive electrofishing passes (pass 1–3) under a multiple pass depletion methodology.

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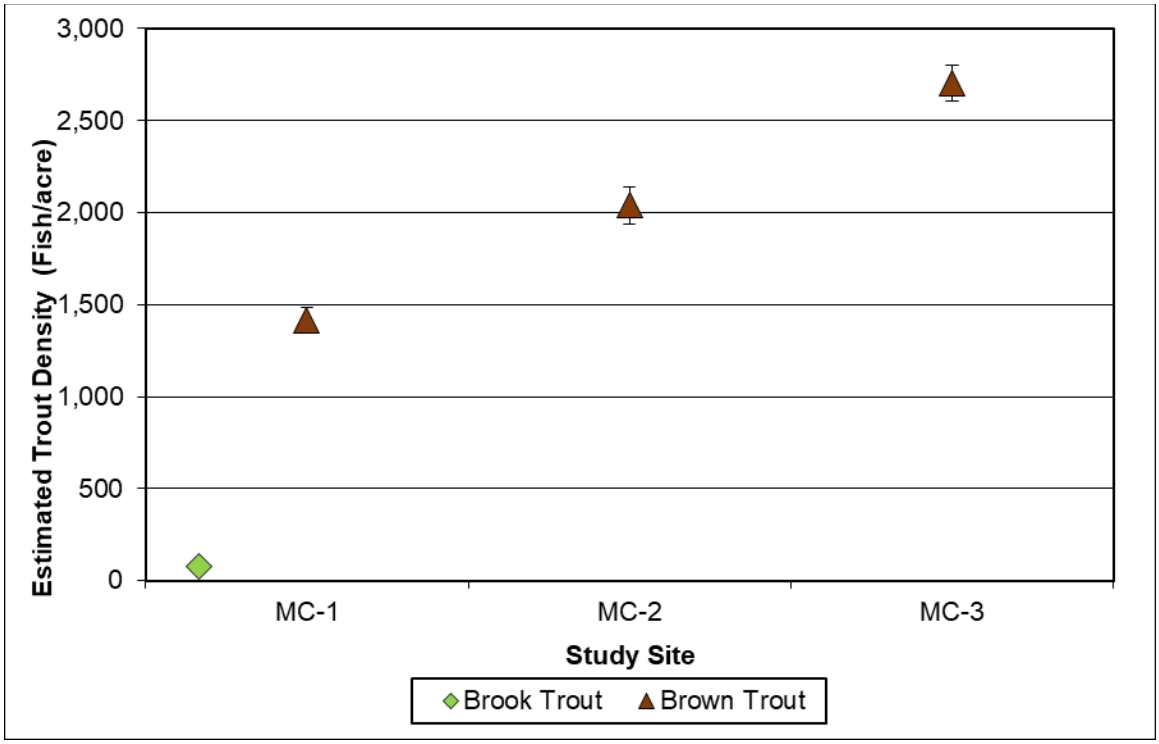


Figure 4.1-2. Estimated Trout Density (with 95-Percent Confidence Intervals) at Mill Creek Fish Study Sites, August 2025.

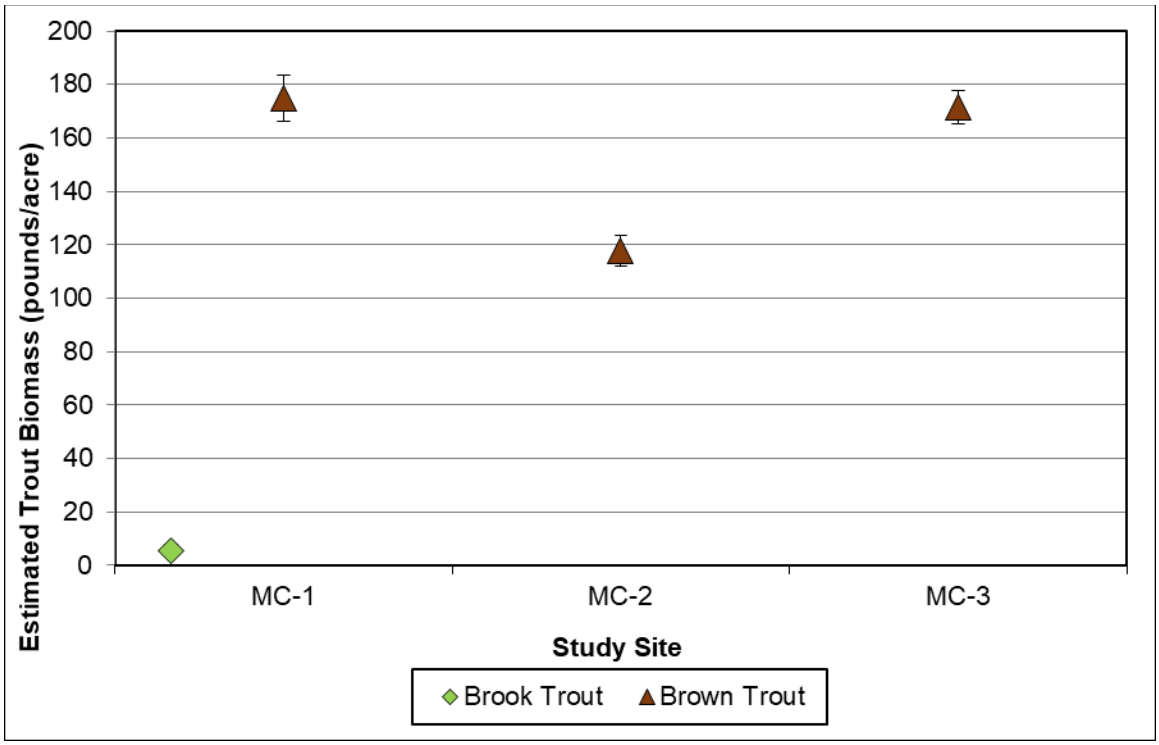


Figure 4.1-3. Estimated Trout Biomass (with 95-Percent Confidence Intervals) at Mill Creek Fish Study Sites, August 2025.

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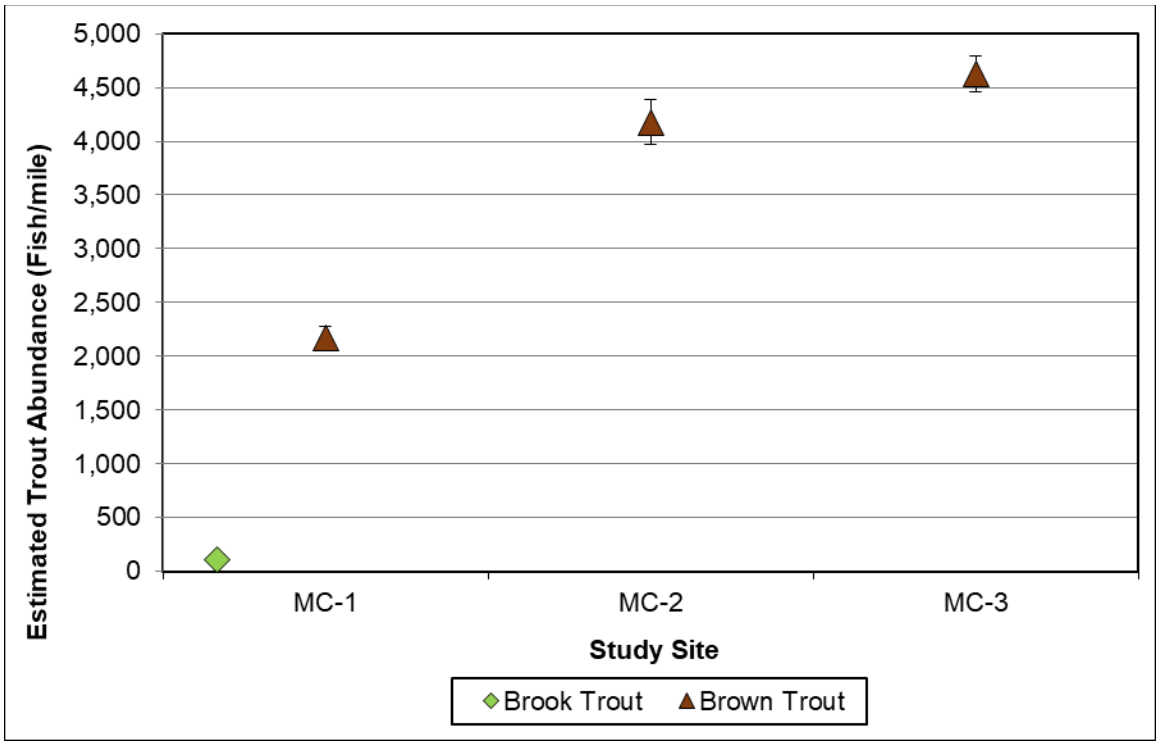


Figure 4.1-4. Estimated Trout Abundance (with 95-Percent Confidence Intervals) at Mill Creek Fish Study Sites, August 2025.

4.1.3. AGE-CLASS DISTRIBUTION

Length-frequency histograms were generated to assess the ages of captured fish species. In total, 563 trout were captured during stream fish surveys and plotted on length-frequency histograms. Of those 563 trout, scales were aged from 63 fish of numerous size classes to refine age estimates. Length-frequency and scale aging results indicate that multiple ages of trout species are present at study sites in Mill Creek. Brook trout ages ranged between age 1+ and age 2+, and brown trout ages ranged from young-of-year (YOY) to age 4+ (Table 4.1-2). These age estimates are supported by breaks and modalities observed in the length frequency histograms and length-at-age values reported in the literature (Moyle, 2002) (Table 4.1-2).

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Table 4.1-2. Estimated Trout Age in Mill Creek Based on Length Frequency Histograms, Scale Analysis, and Literature Values

Species	Age	Fork Length Range Based on 2025 Scale Analysis (mm)			Fork Length Range Based on Length-Frequency Nodes (mm)	Total Length Range Reported in Moyle (2002) (mm)[a]
		Site MC-1	Site MC-2	Site MC-3		
Brook Trout	YOY	--	--	--	--	< 150
	1+	118–154	--	--	--[b]	150–200
	2+	160–177	--	--	--[b]	180–250
	3+	--	--	--	--	230–300
Brown Trout	YOY	62–80	45–74	61–70	50–90	< 80
	1+	129–176	95–119	110–124	100–170	70–160
	2+	159–201	126–200	141–175	160–210	130–280
	3+	220–266	190–314	194–274	180–270	190–410
	4+	283	--	--	>280	230–450

Source: Moyle, 2002

-- = no data; mm = millimeters; YOY = young-of-year
Notes:
[a] Moyle (2002) presents growth information for brown trout and brook trout based on total length.
[b] Distinct nodes were not apparent on the length frequency distribution for brook trout due to low numbers captured.

Fish captured in Mill Creek at the upstream study site (MC-1) included brook trout and brown trout. Brook trout captured at Site MC-1 ranged from 118- to 177-millimeter FL with fish ages estimated to range between age 1+ and age 2+ based on scale analysis (Figure 4.1-5 and Table 4.1-2). Brown trout captured at Site MC-1 ranged from 62- to 283-millimeter FL with fish ages ranging from YOY to age 4+ based on scale analysis (Figure 4.1-6 and Table 4.1-2).

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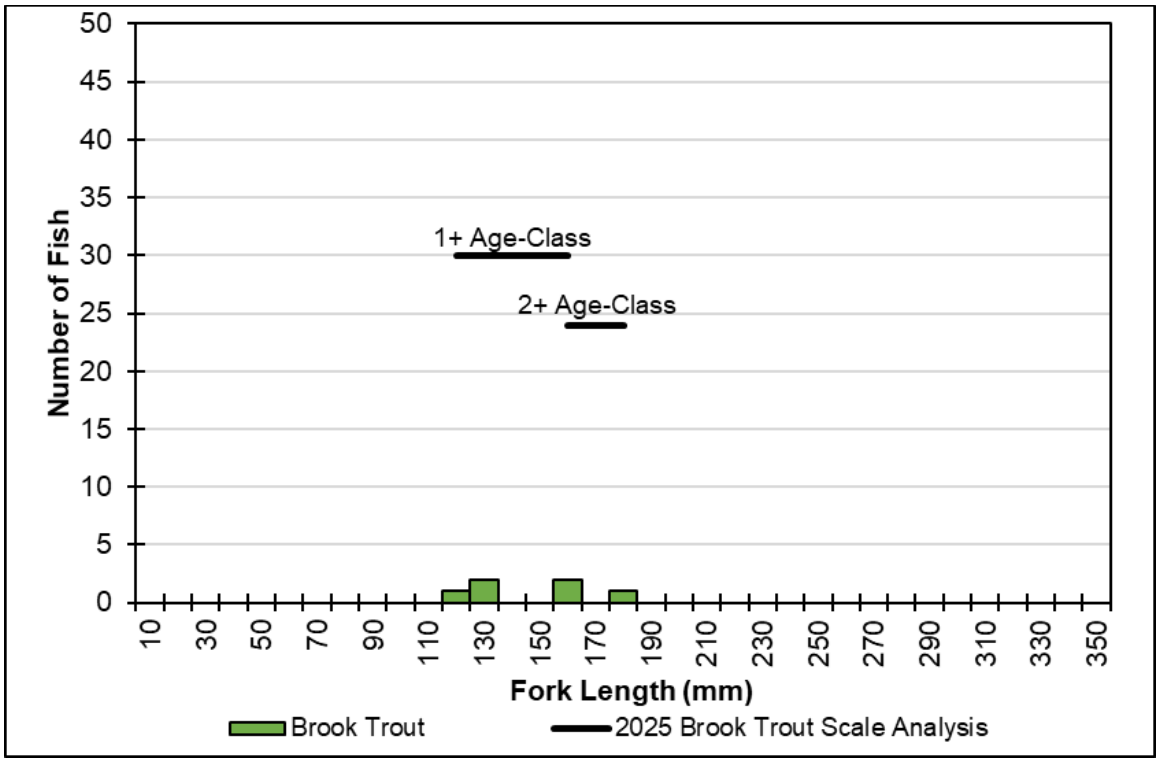


Figure 4.1-5. Length Frequency and Age-Class Distribution for Brook Trout Captured in Mill Creek at Site MC-1, August 2025.

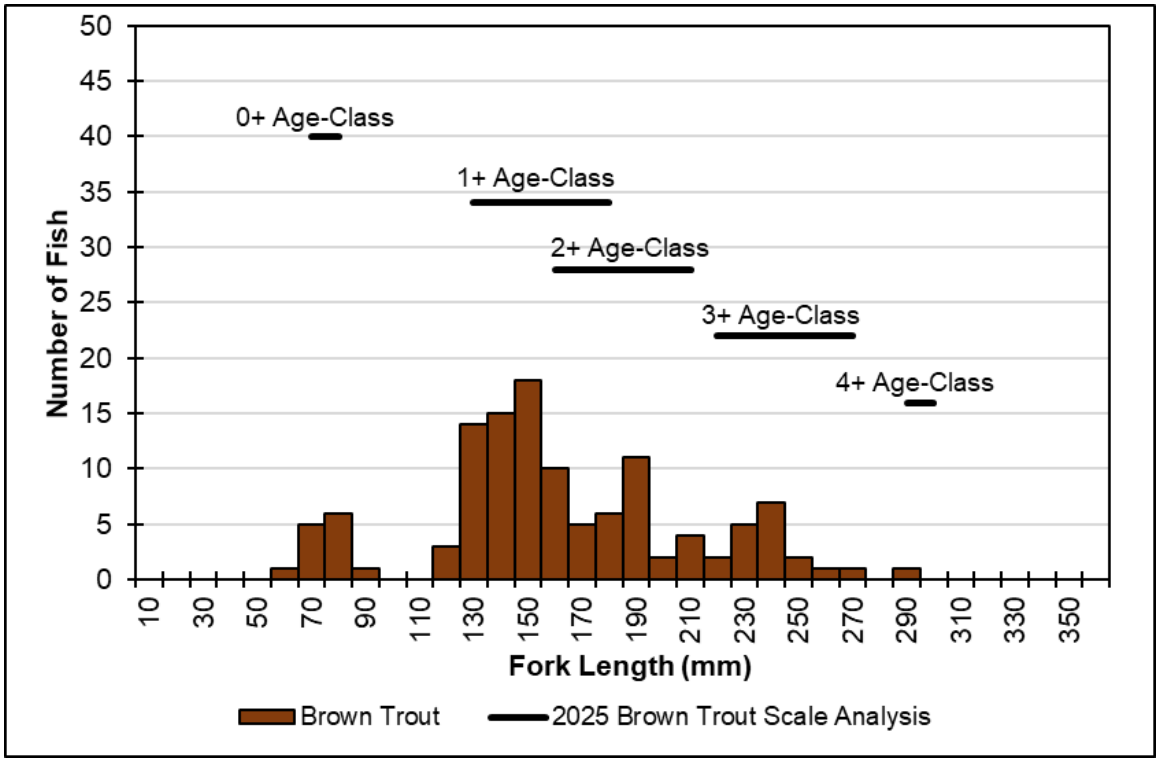


Figure 4.1-6. Length Frequency and Age-Class Distribution for Brown Trout Captured in Mill Creek at Site MC-1, August 2025.

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Brown trout were the only fish species captured at the middle and downstream study sites. Brown trout captured at the middle study site (MC-2) ranged from 45- to 314-millimeter FL, and fish ages ranged from YOY to age 3+ based on scale analysis (Figure 4.1-7 and Table 4.1-2). Brown trout captured at the downstream study site (MC-3) ranged from 61- to 274-millimeter FL, and fish ages ranged from YOY to age 3+ based on scale analysis (Figure 4.1-8 and Table 4.1-2).

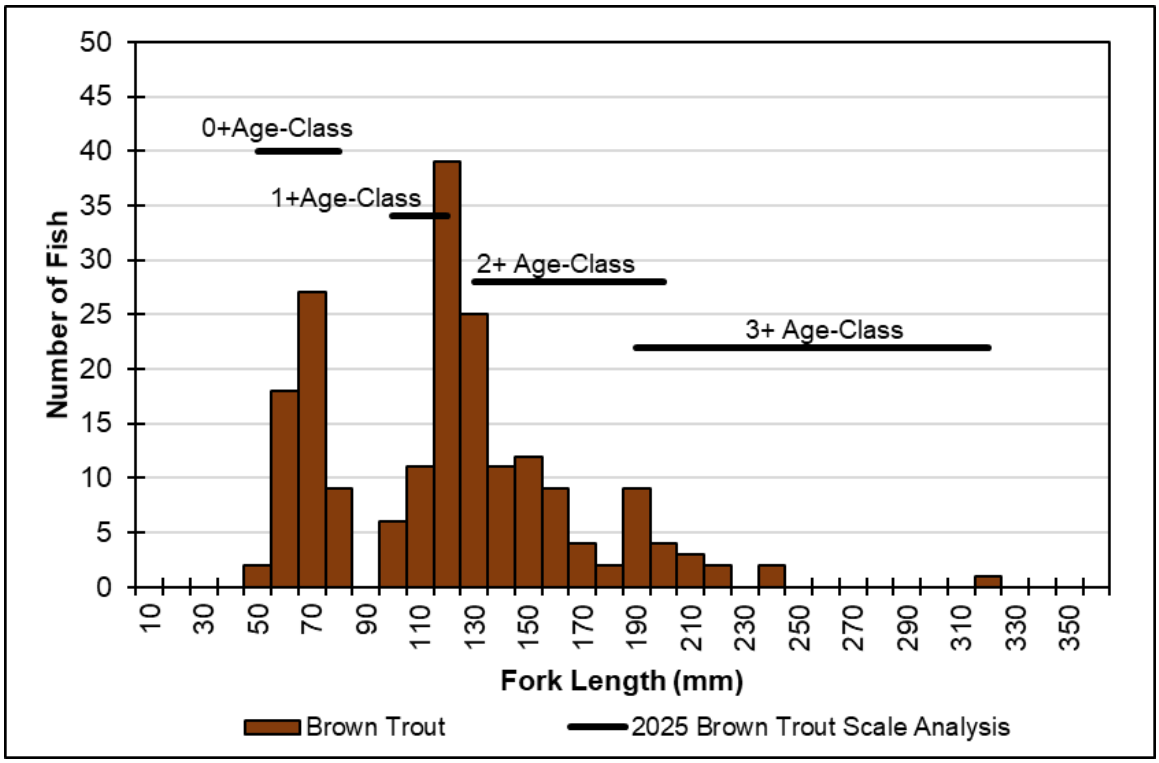


Figure 4.1-7. Length Frequency and Age-Class Distribution for Brown Trout Captured in Mill Creek at Site MC-2, August 2025

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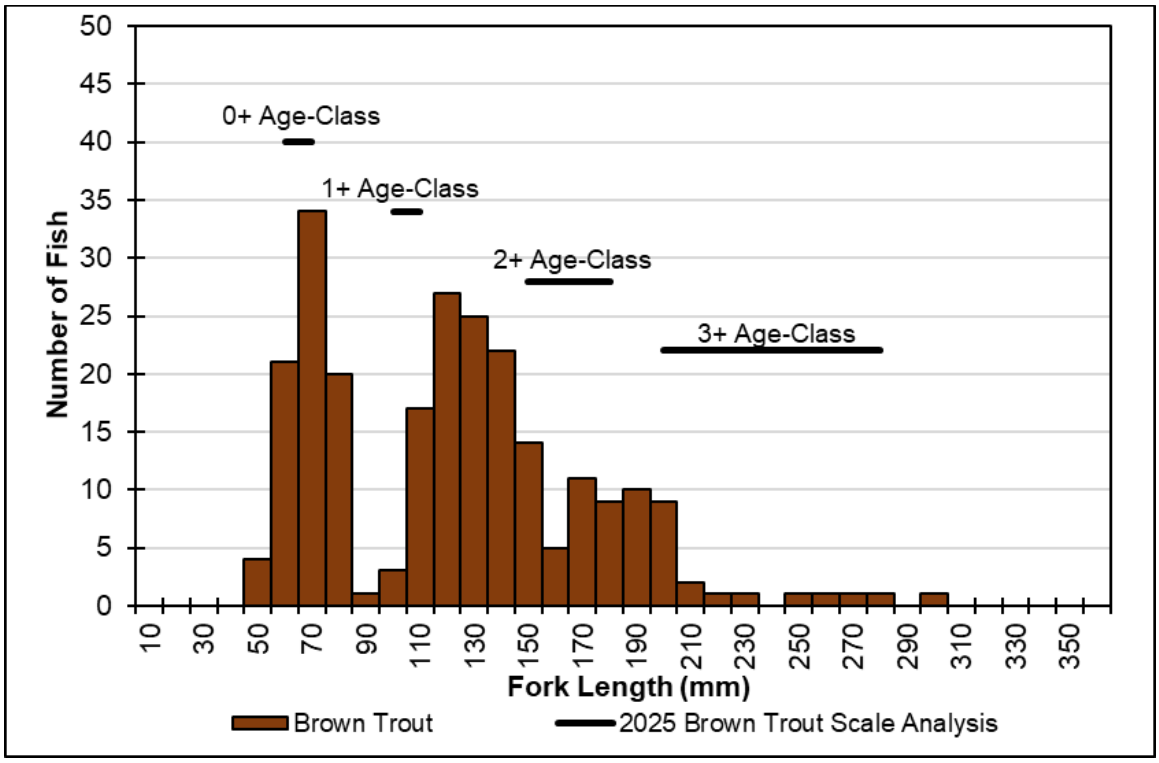


Figure 4.1-8. Length Frequency and Age-Class Distribution for Brown Trout Captured in Mill Creek at Site MC-3, August 2025.

4.1.4. FISH CONDITION

Condition factors (k-values) of fish captured ranged from 0.86 to 1.84. The mean condition factor for brook trout was 1.07, and the mean condition factor for brown trout ranged from 1.13 to 1.15 across the three sites (Table 4.1-3). These k-values indicate that trout were generally in good condition based on condition factors reported from other Sierra Nevada streams and elsewhere.[1] Length and weight data for all fish captured in Mill Creek during this study are provided in Appendix B.

[1] Condition factors in western Sierra Nevada streams typically range from 0.8 to 2.0, with a mean condition factor of approximately 1.2 (Beak, 1991; EA, 1987; Ebasco Environmental, 1993; Wilcox, 1994; Hanson, 2005), while Rabe (1967) reported the condition factor to be between 0.9 and 1.1 for rainbow trout in alpine lakes. Arismendi et al. (2011) cites broader ranges (0.5 to 2.0); however, the condition depends on the sampling season, species, species of trout, state of sexual maturity, and the way fish length is defined (e.g., FL, TL, or standard length), which is not often documented with the results.

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Table 4.1-3. Trout Condition (k-value) Calculated for Fish Captured in Mill Creek, August 2025

Study Site	Species[a]	Number Captured	Mean K-Value	K-Value Range
MC-1	Brook Trout	6	1.07	0.86–1.18
	Brown Trout	120	1.14	0.94–1.34
MC-2	Brook Trout	0	--	--
	Brown Trout	196	1.13	0.82–1.52
MC-3	Brook Trout	0	--	--
	Brown Trout	241	1.15	0.88–1.84

-- = no data
Note:
[a] Fish less than 70-millimeter fork length were excluded from k-value calculations due to the sensitivity of the scale during poor weather conditions.

4.1.5. HABITAT CONDITIONS

Habitat conditions across all study sites were defined by high-gradient stream channels with predominantly riffle and run habitats, infrequent pool habitats, and consistently large substrates composed primarily of boulder and cobble (Table 4.1-4). Stream discharge during the fish survey effort ranged between 2.7 to 18.5 cfs. Water quality conditions measured during the study indicated well-oxygenated stream conditions with water temperatures between 12 and 15 degrees Celsius (Table 4.1-5). Photographs taken to document the specific location of the upstream and downstream block nets for each study site segment and provide a general overview of the study site are included in Appendix C.

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Table 4.1-4. Habitat Conditions at Mill Creek Fish Study Sites, August 2025

Survey Date (2025)	Study Site	Habitat Type (%)					Substrate[a]		Cover[b]		Discharge (cfs)
		Pool	Run	LGR	HGR	CAS	DOM	SUB	DOM	SUB	
8/27	MC-1	10.0	30.0	20.0	37.0	2.7	COB	BLD	BLD	VEG	2.7
8/28	MC-2	0.0	25.0	0.0	75.0	18.5	BLD	COB	BUB	BLD	18.5
8/29	MC-3	5.0	50.0	25.0	20.0	11.6	BLD	COB	BLD	VEG	11.6

% = percent; CAS = cascade; cfs = cubic feet per second; DOM = dominant; HGR = high gradient riffle, LGR = low gradient riffle, SUB = subdominant
Notes:
[a] Substrate codes: COB = cobble, BLD = boulder
[b] Cover codes: BLD = boulder, VEG = overhanging vegetation, BUB = bubble

Table 4.1-5. Water Quality at Mill Creek Fish Study Sites, August 2025

Survey Date (2025)	Study Site	Water Temperature (°C)	Dissolved Oxygen		Conductivity (µS/cm)	Specific Conductivity (µS/cm)	pH (s.u.)
			(%)[a]	(mg/L)			
8/27	MC-1	14.7	103	7.9	100.5	81.0	7.5
8/28	MC-2	12.2	103	8.6	80.0	60.4	7.3
8/29	MC-3	13.6	101	8.3	72.5	56.8	7.6

% = percent; °C = degrees Celsius; mg/L = milligrams per liter; µS/cm = microsiemens per centimeter; s.u. = standard unit
Notes:
[a] Raw dissolved oxygen readings were corrected with temperature and local barometric pressure.

4.2. RESERVOIR FISH RESULTS

4.2.1. FISH SPECIES COMPOSITION

A total of 91 fish representing three species were captured during the 2025 reservoir fish surveys. The fish species captured included brown trout, rainbow trout, and tui chub (*Siphateles bicolor*). Of the fish captured, brown trout were the most abundant, followed by tui chub, with rainbow trout being the least abundant (Figure 4.2-1 and Table 4.2-1). Most rainbow trout captured showed signs of hatchery origin (e.g., worn fins). The high relative abundance of brown trout and tui chub despite a lack of stocking suggests self-sustaining populations of these species persist in Lundy Lake. Photographs of fish captured in Lundy Lake are included in Appendix A.

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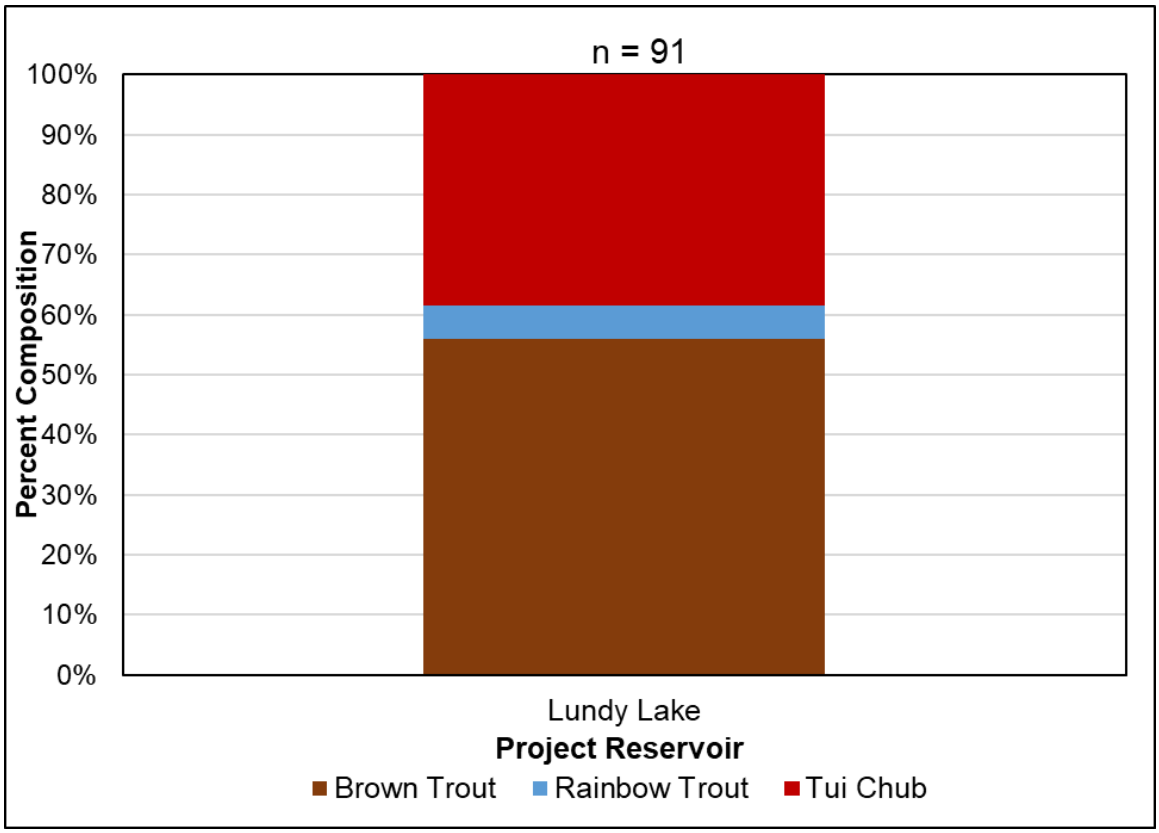


Figure 4.2-1. Lundy Lake Fish Species Composition, August 2025.

4.2.2. CATCH PER UNIT EFFORT

The CPUE for fish captured was variable by gear type (Table 4.2-1) and was higher for boat electrofishing than for gillnetting.

Table 4.2-1. Catch Per Unit Effort by Survey Method for Fish Species Captured in Lundy Lake, August 2025

Method	Number. of Sample Sites	Sample Area (ft^2)	Sample Time (hours)	Number of Fish Captured			CPUE x 1,000 (fish/[ft^2 x hour])		
				Brown Trout	Rainbow Trout	Tui Chub	Brown Trout	Rainbow Trout	Tui Chub
Gill net	6	2,220	55.6	40	1	32	0.32	0.01	0.26
Boat electrofishing	3	15,320	0.31	11	4	3	2.32	0.84	0.63

CPUE = catch per unit effort; ft^2 = square feet

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4.2.3. AGE-CLASS DISTRIBUTION

Length-frequency histograms were generated to assess ages for the captured trout species. In total, 56 trout were captured during reservoir fish surveys and plotted on length-frequency histograms. Scales were aged from 24 fish of numerous size classes to refine age estimates. Length-frequency and scale results indicate multiple ages of trout species are present in Lundy Lake. These age estimates are supported by breaks and modalities observed in the length frequency histograms and length-at-age values reported in Moyle (2002) (Table 4.2-2).

Table 4.2-2. Estimated Trout Age in Lundy Lake Based Scale Analysis and Literature Values

Fish Species	Age	Fork Length Range Based on 2025 Scale Analysis (mm)	Length Range Reported in Moyle (2002) (mm)[a]
Brown trout	YOY	--	< 80
	1+	120	70–160
	2+	146–220	130–280
	3+	249–76	190–410
	4+	281–380	230–450
	5+	290–490	--
Rainbow trout	YOY	--	<100
	1+	--	100–160
	2+	--	130–200
	3+	--	190–220
	4+	296–359	--
	5+	388–402	--

Source: Moyle, 2002

-- = no data; mm = millimeters; YOY = young-of-year
Notes:
[a] Moyle (2002) presents growth information for brown trout and brook trout based on total length and rainbow trout based on fork length.

Fish captured in Lundy Lake included brown trout, rainbow trout, and tui chub. Brown trout ranged in size from 120- to 490-millimeter FL, and fish ages ranged from age 1+ up to age 5+ based on scale analysis (Table 4.2-2 and Figure 4.2-2). Rainbow trout captured ranged from 294- to 402-millimeter FL, and fish ages ranged between age 4+ and age 5+ based on scale analysis (Table 4.2-2 and Figure 4.2-3). Tui chub ranged from 78- to 260-millimeter FL. Representative photographs of fish captured in Lundy Lake are provided in Appendix C.

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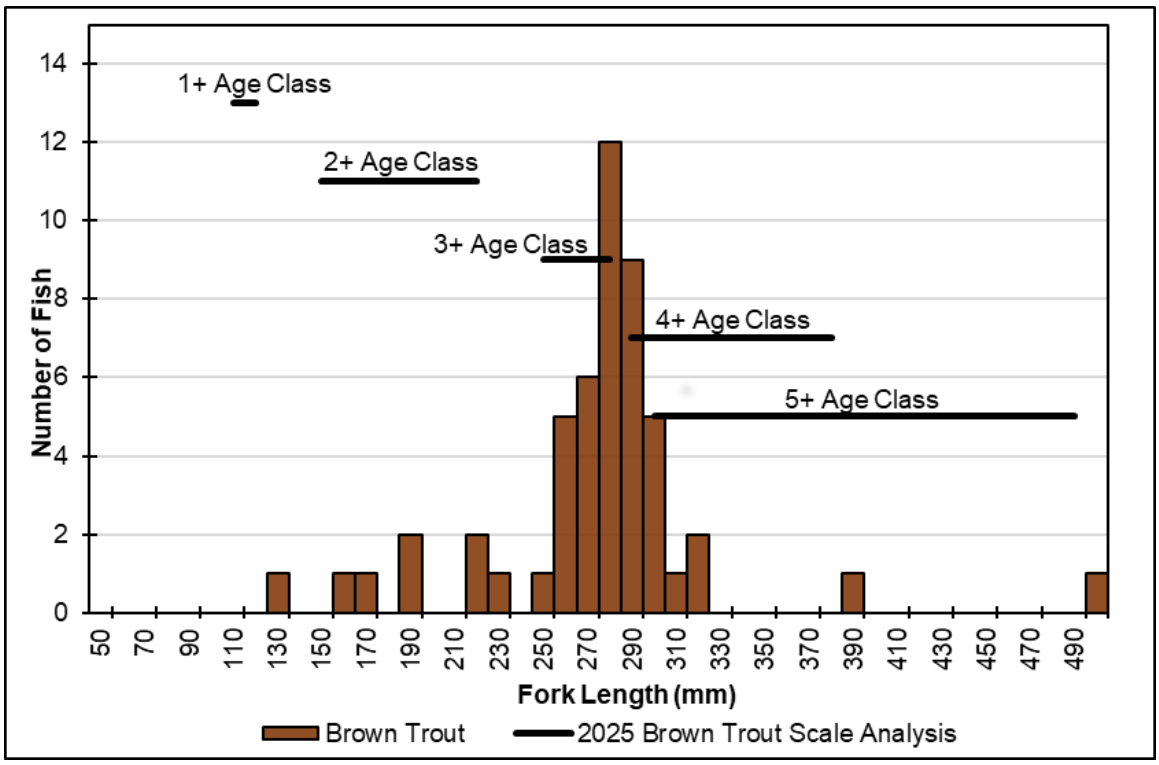


Figure 4.2-2. Length-Frequency and Age-Class Distribution for Brown Trout Captured in Lundy Lake, August 2025.

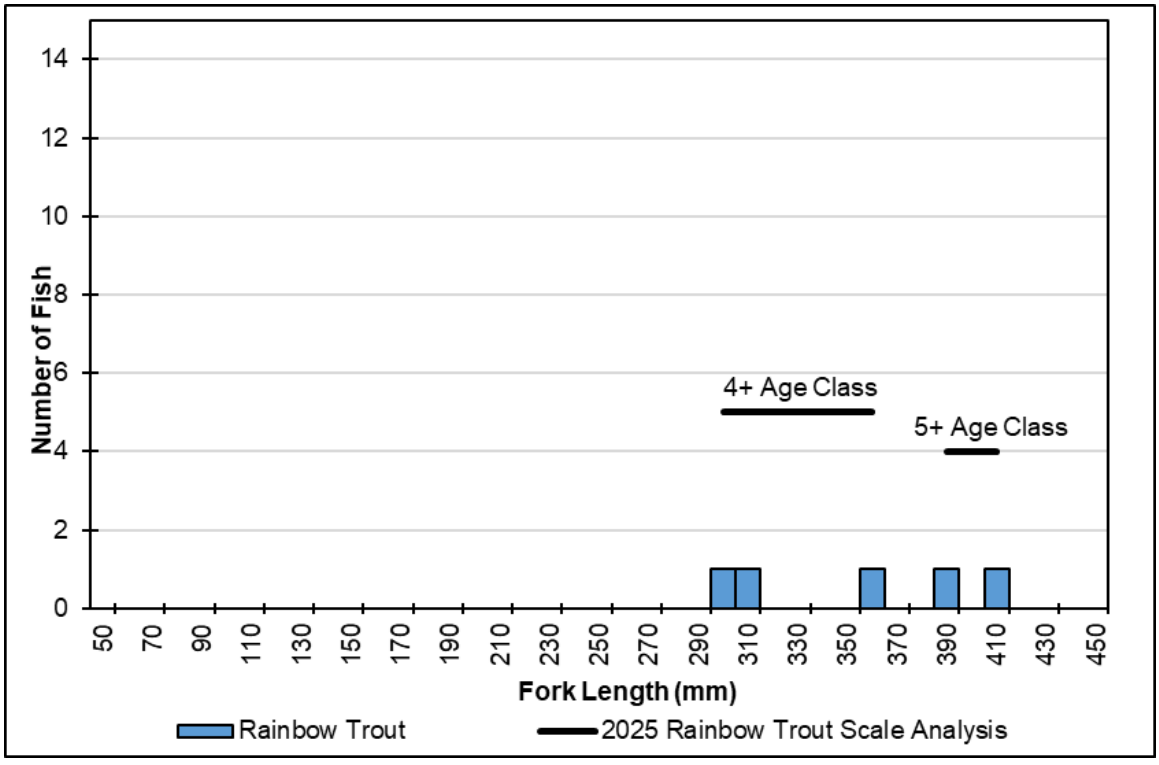


Figure 4.2-3. Length-Frequency and Age-Class Distribution for Rainbow Trout Captured in Lundy Lake, August 2025.

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4.2.4. FISH CONDITION

Mean condition factors (k-values) of brown trout and rainbow trout captured in Lundy Lake were 1.07 and 1.09, respectively, indicating fish were generally in good condition (Table 4.2-3). Length and weight data for all fish captured in Lundy Lake during this study are provided in Appendix D.

Table 4.2-3. Fish Condition (k-value) Calculated for Trout Captured in Lundy Lake, August 2025

Species	Number Captured	Mean K-Value	K-value Range
Brown Trout	51	1.07	1.00–1.17
Rainbow Trout	5	1.09	0.92–1.49

4.2.5. SITE CONDITIONS

Surface waters throughout Lundy Lake were cool and oxygenated during gill netting and boat electrofishing efforts. Water quality conditions in Lundy Lake are summarized in Table 4.2-4 and tabulated data are provided in Appendix E.

Table 4.2-4. Water Quality Conditions at Fish Sampling Locations in Lundy Lake, August 2025

Survey Date (2025)	Survey Method	Water Temperature (°C)	Dissolved Oxygen (%)[a]	Dissolved Oxygen (mg/L)	Conductivity (*µ*S/cm)	Specific Conductivity (*µ*S/cm)	pH (s.u.)
		Range	Range	Range	Range	Range	Range
8/25	Gill net	17.0–17.7	108–108	7.8–7.8	67–67	57–57	7.5–7.7
8/26	Boat e-fishing	16.6–16.8	107–110	7.8–8.0	67–67	56–56	7.6–7.6

% = percent; °C = degrees Celsius; e-fishing = electrofishing; mg/L = milligrams per liter; *µ*S/cm = microsiemens per centimeter; s.u. = standard unit

Notes:

[a] Dissolved oxygen readings were corrected with temperature and local barometric pressure.

4.3. LITERATURE REVIEW

A literature review was conducted to synthesize available information about the effects of large flow releases (i.e., greater than 60 cfs) in the fall or winter on brown trout populations in Mill Creek. Key findings from each of the literature sources assessed are included in Appendix F.

The literature demonstrated that the timing and magnitude of high-flow events strongly influence brown trout recruitment and population structure, particularly when high flow events (230–3,920 cfs in streams of various sizes) occur during winter and early spring

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(Strange et al., 1992; Warren et al., 2009). High winter flows in streams supporting brown trout populations were associated with redd scour, egg and alevin mortality, fry displacement, and reduced YOY survival, leading to decreased recruitment across populations (McBain & Trush et al., 2010; Strange et al., 1992; Warren et al., 2009). Studies with regulated stream flows found that elevated winter baseflows were linked to reduced adult holding habitat, decreased overwinter survival, and truncated age-class distributions (i.e., fewer older fish; McBain & Trush et al., 2010). Notably, the flow magnitudes examined in some of these studies were substantially higher than those anticipated in project-affected stream reaches of Mill Creek. While the reported effects offer a useful conceptual framework for understanding the effects associated with high-magnitude fall and winter flows, the severity of the effects in the literature are not necessarily representative of conditions in project-affected stream reaches of Mill Creek.

4.4. INCIDENTAL OBSERVATIONS

No special-status species or aquatic invasive species were observed during AQ-1. A North American beaver (*Castor canadensis*) carcass was observed at Site MC-2 during stream electrofishing efforts.

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APPENDIX A
MILL CREEK AND LUNDY LAKE FISH PHOTOGRAPHS

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Figure A-1. Brook Trout Captured at Mill Creek, August 27, 2025 (1).



Figure A-2. Brook Trout Captured at Mill Creek, August 27, 2025 (2).

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Figure A-3. Brown Trout Captured at Lundy Lake, August 25, 2025 (1).



Figure A-4. Rainbow Trout Captured at Lundy Lake, August 25, 2025.

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Figure A-5. Tui Chub Captured at Lundy Lake, August 25, 2025 (1).



Figure A-6. Brown Trout Captured at Lundy Lake, August 25, 2025 (2).

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Figure A-7. Tui Chub Captured at Lundy Lake, August 25, 2025 (2).



Figure A-8. Brown Trout Captured at Lundy Lake, August 25, 2025 (3).

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Figure A-9. Brown Trout Captured at Lundy Lake, August 26, 2025 (1).

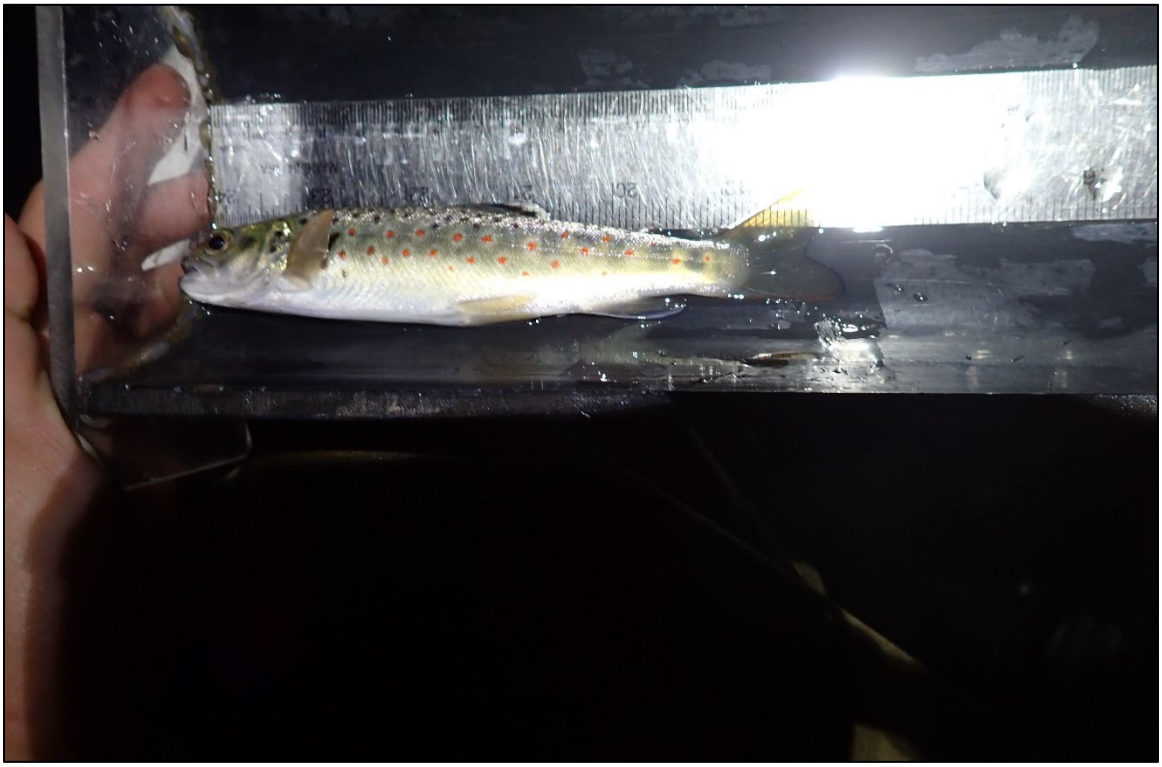


Figure A-10. Brown Trout Captured at Lundy Lake, August 26, 2025 (2).

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Figure A-11. Tui Chub Captured at Lundy Lake, August 26, 2025.

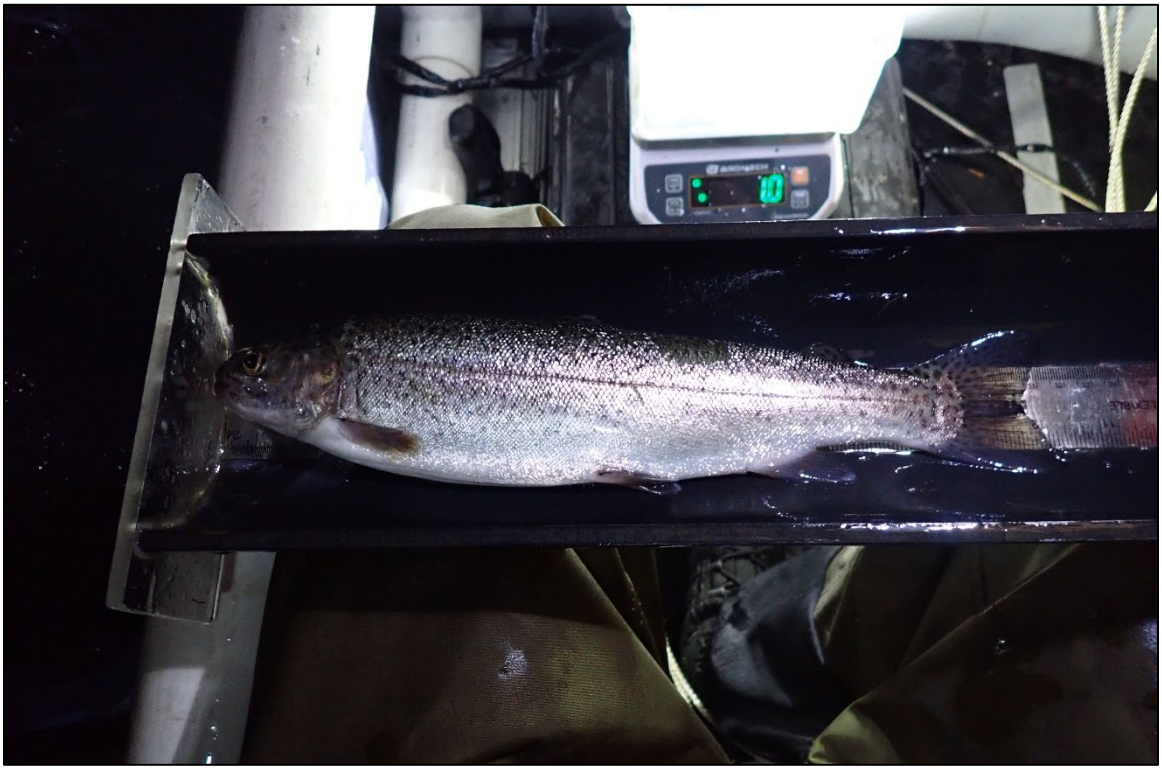


Figure A-12. Rainbow Trout Captured at Lundy Lake, August 26, 2025 (1).

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Figure A-13. Rainbow Trout Captured at Lundy Lake, August 26, 2025 (2).

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APPENDIX B
MILL CREEK FISH CAPTURE DATA

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Table B-1. AQ-1 Mill Creek Fish Capture Data, August 2025

Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/27	Mill Creek	MC-1	Lower	1	Brown trout	60	62	2.8	--	--
8/27	Mill Creek	MC-1	Lower	1	Brown trout	62	65	2.6	BRN-11	--
8/27	Mill Creek	MC-1	Lower	1	Brown trout	75	80	5.4	BRN-05	1.28
8/27	Mill Creek	MC-1	Lower	1	Brown trout	76	80	5.2	--	1.19
8/27	Mill Creek	MC-1	Lower	1	Brown trout	76	80	5.0	BRN-13	1.14
8/27	Mill Creek	MC-1	Lower	1	Brown trout	80	85	5.6	BRN-12	1.09
8/27	Mill Creek	MC-1	Lower	1	Brown trout	121	127	19.0	--	1.07
8/27	Mill Creek	MC-1	Lower	1	Brown trout	125	131	22.6	--	1.16
8/27	Mill Creek	MC-1	Lower	1	Brown trout	125	132	22.8	--	1.17
8/27	Mill Creek	MC-1	Lower	1	Brown trout	125	134	23.0	--	1.18
8/27	Mill Creek	MC-1	Lower	1	Brown trout	126	133	22.8	--	1.14
8/27	Mill Creek	MC-1	Lower	1	Brown trout	129	135	23.0	BRN-01	1.07
8/27	Mill Creek	MC-1	Lower	1	Brook trout	130	135	23.6	BK-01	1.07
8/27	Mill Creek	MC-1	Lower	1	Brown trout	130	137	26.0	--	1.18
8/27	Mill Creek	MC-1	Lower	1	Brown trout	133	140	27.2	--	1.16
8/27	Mill Creek	MC-1	Lower	1	Brown trout	135	141	26.6	--	1.08
8/27	Mill Creek	MC-1	Lower	1	Brown trout	136	144	27.4	--	1.09
8/27	Mill Creek	MC-1	Lower	1	Brown trout	138	146	29.0	--	1.10
8/27	Mill Creek	MC-1	Lower	1	Brown trout	138	145	31.0	--	1.18
8/27	Mill Creek	MC-1	Lower	1	Brown trout	140	146	28.6	BRN-06	1.04
8/27	Mill Creek	MC-1	Lower	1	Brown trout	141	149	32.4	--	1.16
8/27	Mill Creek	MC-1	Lower	1	Brown trout	143	150	--	BRN-07	--
8/27	Mill Creek	MC-1	Lower	1	Brown trout	146	153	34.2	--	1.10
8/27	Mill Creek	MC-1	Lower	1	Brown trout	148	156	38.0	BRN-04	1.17

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/27	Mill Creek	MC-1	Lower	1	BRN	148	155	37.2	--	1.15
8/27	Mill Creek	MC-1	Lower	1	Brown trout	148	153	38.8	--	1.20
8/27	Mill Creek	MC-1	Lower	1	Brown trout	148	157	41.4	--	1.28
8/27	Mill Creek	MC-1	Lower	1	Brown trout	150	159	36.0	--	1.07
8/27	Mill Creek	MC-1	Lower	1	Brown trout	153	162	38.8	--	1.08
8/27	Mill Creek	MC-1	Lower	1	Brown trout	153	162	41.2	--	1.15
8/27	Mill Creek	MC-1	Lower	1	Brook trout	154	161	42.2	BK-02	1.16
8/27	Mill Creek	MC-1	Lower	1	Brown trout	155	163	41.4	--	1.11
8/27	Mill Creek	MC-1	Lower	1	Brown trout	159	166	43.8	BRN-08	1.09
8/27	Mill Creek	MC-1	Lower	1	Brown trout	159	166	41.2	--	1.03
8/27	Mill Creek	MC-1	Lower	1	Brown trout	163	175	46.8	--	1.08
8/27	Mill Creek	MC-1	Lower	1	Brown trout	168	176	48.8	BRN-09	1.03
8/27	Mill Creek	MC-1	Lower	1	Brown trout	169	175	54.0	--	1.12
8/27	Mill Creek	MC-1	Lower	1	Brown trout	170	175	52.8	--	1.08
8/27	Mill Creek	MC-1	Lower	1	Brown trout	175	185	54.6	--	1.02
8/27	Mill Creek	MC-1	Lower	1	Brown trout	176	186	58.2	BRN-02	1.07
8/27	Mill Creek	MC-1	Lower	1	Brown trout	176	185	66.0	--	1.21
8/27	Mill Creek	MC-1	Lower	1	Brown trout	184	191	74.4	--	1.19
8/27	Mill Creek	MC-1	Lower	1	Brown trout	185	191	69.2	BRN-03	1.09
8/27	Mill Creek	MC-1	Lower	1	Brown trout	187	195	75.4	--	1.15
8/27	Mill Creek	MC-1	Lower	1	Brown trout	189	197	89.8	BRN-14	1.33
8/27	Mill Creek	MC-1	Lower	1	Brown trout	190	198	78.2	--	1.14
8/27	Mill Creek	MC-1	Lower	1	Brown trout	195	204	71.8	--	0.97
8/27	Mill Creek	MC-1	Lower	1	Brown trout	199	205	79.6	--	1.01
8/27	Mill Creek	MC-1	Lower	1	Brown trout	201	209	100.4	BRN-15	1.24
8/27	Mill Creek	MC-1	Lower	1	Brown trout	220	226	130.2	BRN-16	1.22

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/27	Mill Creek	MC-1	Lower	1	Brown trout	231	240	148.2	BRN-10	1.20
8/27	Mill Creek	MC-1	Lower	1	Brown trout	234	241	146.0	--	1.14
8/27	Mill Creek	MC-1	Lower	1	Brown trout	240	247	156.6	--	1.13
8/27	Mill Creek	MC-1	Lower	1	Brown trout	283	293	247.0	BRN-17	1.09
8/27	Mill Creek	MC-1	Lower	2	Brown trout	61	66	2.4	--	--
8/27	Mill Creek	MC-1	Lower	2	Brown trout	65	70	3.6	--	--
8/27	Mill Creek	MC-1	Lower	2	Brown trout	88	91	8.4	--	1.23
8/27	Mill Creek	MC-1	Lower	2	Brown trout	113	119	16.8	--	1.16
8/27	Mill Creek	MC-1	Lower	2	Brown trout	127	134	20.2	--	0.99
8/27	Mill Creek	MC-1	Lower	2	Brown trout	128	135	26.2	--	1.25
8/27	Mill Creek	MC-1	Lower	2	Brown trout	132	139	27.6	--	1.20
8/27	Mill Creek	MC-1	Lower	2	Brown trout	148	155	36.2	--	1.12
8/27	Mill Creek	MC-1	Lower	2	Brook trout	160	167	48.2	BK-04	1.18
8/27	Mill Creek	MC-1	Lower	2	Brook trout	177	183	56.0	BK-03	1.01
8/27	Mill Creek	MC-1	Lower	2	Brown trout	183	190	61.0	--	1.00
8/27	Mill Creek	MC-1	Lower	2	Brown trout	185	195	77.6	--	1.23
8/27	Mill Creek	MC-1	Lower	2	Brown trout	187	192	72.2	--	1.10
8/27	Mill Creek	MC-1	Lower	2	Brown trout	190	197	73.0	--	1.06
8/27	Mill Creek	MC-1	Lower	2	Brown trout	239	246	140.4	--	1.03
8/27	Mill Creek	MC-1	Lower	3	Brown trout	65	68	3.0	--	--
8/27	Mill Creek	MC-1	Lower	3	Brown trout	117	123	18.2	--	1.14
8/27	Mill Creek	MC-1	Lower	3	Brown trout	137	145	33.0	--	1.28
8/27	Mill Creek	MC-1	Lower	3	Brown trout	143	150	27.4	--	0.94
8/27	Mill Creek	MC-1	Lower	3	Brown trout	154	162	35.8	--	0.98
8/27	Mill Creek	MC-1	Lower	3	Brown trout	205	216	102.6	--	1.19
8/27	Mill Creek	MC-1	Lower	3	Brown trout	239	245	173.4	--	1.27

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/27	Mill Creek	MC-1	Lower	3	Brown trout	240	248	160.2	--	1.16
8/27	Mill Creek	MC-1	Lower	3	Brown trout	245	253	161.4	--	1.10
8/27	Mill Creek	MC-1	Upper	1	Brown trout	70	74	4.0	--	--
8/27	Mill Creek	MC-1	Upper	1	Brown trout	71	74	4.4	--	1.23
8/27	Mill Creek	MC-1	Upper	1	Brown trout	79	84	6.2	--	1.26
8/27	Mill Creek	MC-1	Upper	1	Brook trout	118	124	14.2	BK-5	0.86
8/27	Mill Creek	MC-1	Upper	1	Brown trout	118	125	20.2	--	1.23
8/27	Mill Creek	MC-1	Upper	1	Brown trout	121	127	18.4	--	1.04
8/27	Mill Creek	MC-1	Upper	1	Brown trout	124	132	21.0	--	1.10
8/27	Mill Creek	MC-1	Upper	1	Brown trout	127	133	22.8	--	1.11
8/27	Mill Creek	MC-1	Upper	1	Brown trout	129	135	23.2	--	1.08
8/27	Mill Creek	MC-1	Upper	1	Brown trout	134	142	26.4	--	1.10
8/27	Mill Creek	MC-1	Upper	1	Brown trout	135	143	29.0	--	1.18
8/27	Mill Creek	MC-1	Upper	1	Brown trout	140	148	29.8	--	1.09
8/27	Mill Creek	MC-1	Upper	1	Brown trout	140	147	30.6	--	1.12
8/27	Mill Creek	MC-1	Upper	1	Brown trout	141	148	31.2	--	1.11
8/27	Mill Creek	MC-1	Upper	1	Brown trout	144	149	30.8	--	1.03
8/27	Mill Creek	MC-1	Upper	1	Brown trout	145	152	33.8	--	1.11
8/27	Mill Creek	MC-1	Upper	1	Brown trout	146	154	34.6	--	1.11
8/27	Mill Creek	MC-1	Upper	1	Brown trout	147	155	37.6	--	1.18
8/27	Mill Creek	MC-1	Upper	1	Brown trout	149	156	35.4	--	1.07
8/27	Mill Creek	MC-1	Upper	1	Brown trout	155	165	39.2	--	1.05
8/27	Mill Creek	MC-1	Upper	1	Brown trout	155	162	46.0	--	1.24
8/27	Mill Creek	MC-1	Upper	1	Brown trout	172	182	56.6	--	1.11
8/27	Mill Creek	MC-1	Upper	1	Brown trout	174	184	62.4	--	1.19
8/27	Mill Creek	MC-1	Upper	1	Brown trout	175	184	62.2	--	1.16

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/27	Mill Creek	MC-1	Upper	1	Brown trout	181	189	34.2	--	0.58
8/27	Mill Creek	MC-1	Upper	1	Brown trout	206	212	99.4	--	1.14
8/27	Mill Creek	MC-1	Upper	1	Brown trout	210	218	106.8	--	1.15
8/27	Mill Creek	MC-1	Upper	1	Brown trout	212	224	100.8	--	1.06
8/27	Mill Creek	MC-1	Upper	1	Brown trout	221	231	128.2	--	1.19
8/27	Mill Creek	MC-1	Upper	1	Brown trout	227	235	130.4	--	1.12
8/27	Mill Creek	MC-1	Upper	1	Brown trout	227	234	136.6	--	1.17
8/27	Mill Creek	MC-1	Upper	1	Brown trout	229	237	137.8	--	1.15
8/27	Mill Creek	MC-1	Upper	1	Brown trout	234	241	132.8	--	1.04
8/27	Mill Creek	MC-1	Upper	1	Brown trout	246	252	169.4	BRN-19	1.14
8/27	Mill Creek	MC-1	Upper	1	Brown trout	253	260	185.8	BRN-18	1.15
8/27	Mill Creek	MC-1	Upper	2	Brook trout	127	136	23.4	BK-6	1.14
8/27	Mill Creek	MC-1	Upper	2	Brown trout	127	134	23.8	--	1.16
8/27	Mill Creek	MC-1	Upper	2	Brown trout	134	141	28.2	--	1.17
8/27	Mill Creek	MC-1	Upper	2	Brown trout	138	147	31.2	BRN-20	1.19
8/27	Mill Creek	MC-1	Upper	2	Brown trout	144	149	36.6	--	1.23
8/27	Mill Creek	MC-1	Upper	2	Brown trout	152	160	47.2	--	1.34
8/27	Mill Creek	MC-1	Upper	2	Brown trout	153	162	38.4	--	1.07
8/27	Mill Creek	MC-1	Upper	2	Brown trout	161	170	50.6	--	1.21
8/27	Mill Creek	MC-1	Upper	2	Brown trout	185	193	80.4	--	1.27
8/27	Mill Creek	MC-1	Upper	3	Brown trout	131	137	29.2	--	1.30
8/27	Mill Creek	MC-1	Upper	3	Brown trout	148	159	35.4	--	1.09
8/27	Mill Creek	MC-1	Upper	3	Brown trout	223	230	129.2	--	1.17
8/27	Mill Creek	MC-1	Upper	3	Brown trout	266	272	195.8	BRN-21	1.04
8/28	Mill Creek	MC-2	Lower	1	Brown trout	45	46	1.4	BRN-19	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	51	53	2.2	--	--

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Lower	1	Brown trout	55	57	2.2	BRN-10	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	55	57	2.0	BRN-11	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	55	57	2.2	BRN-18	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	55	57	6.0	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	60	63	2.6	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	62	66	3.6	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	65	68	3.2	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	65	68	3.6	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	65	68	3.4	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	66	70	4.0	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	67	69	3.4	BRN-14	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	68	72	4.0	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	70	74	4.2	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	70	72	3.6	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	70	74	4.4	--	--
8/28	Mill Creek	MC-2	Lower	1	Brown trout	74	76	5.6	BRN-12	1.38
8/28	Mill Creek	MC-2	Lower	1	Brown trout	95	100	9.2	BRN-17	1.07
8/28	Mill Creek	MC-2	Lower	1	Brown trout	95	97	9.2	--	1.07
8/28	Mill Creek	MC-2	Lower	1	Brown trout	96	100	10.4	--	1.18
8/28	Mill Creek	MC-2	Lower	1	Brown trout	100	102	10.8	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	105	118	14.0	--	1.21
8/28	Mill Creek	MC-2	Lower	1	Brown trout	105	118	11.2	--	0.97
8/28	Mill Creek	MC-2	Lower	1	Brown trout	105	110	15.2	--	1.31
8/28	Mill Creek	MC-2	Lower	1	Brown trout	106	108	11.8	--	0.99
8/28	Mill Creek	MC-2	Lower	1	Brown trout	107	113	14.8	--	1.21
8/28	Mill Creek	MC-2	Lower	1	Brown trout	111	120	16.8	--	1.23

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Lower	1	Brown trout	111	116	16.0	--	1.17
8/28	Mill Creek	MC-2	Lower	1	Brown trout	112	116	15.2	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	113	115	16.6	BRN-1	1.15
8/28	Mill Creek	MC-2	Lower	1	Brown trout	113	119	15.4	--	1.07
8/28	Mill Creek	MC-2	Lower	1	Brown trout	114	117	15.6	BRN-15	1.05
8/28	Mill Creek	MC-2	Lower	1	Brown trout	114	120	16.4	--	1.11
8/28	Mill Creek	MC-2	Lower	1	Brown trout	115	119	17.2	BRN-9	1.13
8/28	Mill Creek	MC-2	Lower	1	Brown trout	115	120	16.8	--	1.11
8/28	Mill Creek	MC-2	Lower	1	Brown trout	115	120	16.4	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	115	122	18.2	--	1.20
8/28	Mill Creek	MC-2	Lower	1	Brown trout	115	122	16.0	--	1.05
8/28	Mill Creek	MC-2	Lower	1	Brown trout	118	122	17.8	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	119	124	20.6	BRN-7	1.22
8/28	Mill Creek	MC-2	Lower	1	Brown trout	120	124	18.4	--	1.07
8/28	Mill Creek	MC-2	Lower	1	Brown trout	120	123	19.4	--	1.12
8/28	Mill Creek	MC-2	Lower	1	Brown trout	120	127	19.0	--	1.10
8/28	Mill Creek	MC-2	Lower	1	Brown trout	124	131	21.0	--	1.10
8/28	Mill Creek	MC-2	Lower	1	Brown trout	124	131	21.8	--	1.14
8/28	Mill Creek	MC-2	Lower	1	Brown trout	125	130	19.8	--	1.01
8/28	Mill Creek	MC-2	Lower	1	Brown trout	125	132	21.8	--	1.12
8/28	Mill Creek	MC-2	Lower	1	Brown trout	126	131	23.6	BRN-8	1.18
8/28	Mill Creek	MC-2	Lower	1	Brown trout	126	135	21.6	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	127	134	25.0	--	1.22
8/28	Mill Creek	MC-2	Lower	1	Brown trout	129	133	23.8	--	1.11
8/28	Mill Creek	MC-2	Lower	1	Brown trout	130	136	23.2	--	1.06
8/28	Mill Creek	MC-2	Lower	1	Brown trout	131	134	24.4	--	1.09

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Lower	1	Brown trout	132	136	25.6	--	1.11
8/28	Mill Creek	MC-2	Lower	1	Brown trout	134	137	26.0	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	135	139	26.6	--	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	140	145	33.8	--	1.23
8/28	Mill Creek	MC-2	Lower	1	Brown trout	141	144	33.0	--	1.18
8/28	Mill Creek	MC-2	Lower	1	Brown trout	141	150	35.6	--	1.27
8/28	Mill Creek	MC-2	Lower	1	Brown trout	144	148	33.0	--	1.11
8/28	Mill Creek	MC-2	Lower	1	Brown trout	145	151	34.6	--	1.14
8/28	Mill Creek	MC-2	Lower	1	Brown trout	147	153	36.2	--	1.14
8/28	Mill Creek	MC-2	Lower	1	Brown trout	147	154	38.6	--	1.22
8/28	Mill Creek	MC-2	Lower	1	Brown trout	154	161	45.6	BRN-4	1.25
8/28	Mill Creek	MC-2	Lower	1	Brown trout	156	160	42.8	--	1.13
8/28	Mill Creek	MC-2	Lower	1	Brown trout	158	163	46.4	--	1.18
8/28	Mill Creek	MC-2	Lower	1	Brown trout	159	167	40.6	--	1.01
8/28	Mill Creek	MC-2	Lower	1	Brown trout	163	172	49.4	--	1.14
8/28	Mill Creek	MC-2	Lower	1	Brown trout	169	173	50.8	BRN-16	1.05
8/28	Mill Creek	MC-2	Lower	1	Brown trout	178	188	61.6	--	1.09
8/28	Mill Creek	MC-2	Lower	1	Brown trout	183	190	79.6	BRN-6	1.30
8/28	Mill Creek	MC-2	Lower	1	Brown trout	184	193	72.2	--	1.16
8/28	Mill Creek	MC-2	Lower	1	Brown trout	190	196	76.0	BRN-3	1.11
8/28	Mill Creek	MC-2	Lower	1	Brown trout	190	200	78.4	--	1.14
8/28	Mill Creek	MC-2	Lower	1	Brown trout	190	197	77.2	--	1.13
8/28	Mill Creek	MC-2	Lower	1	Brown trout	192	198	76.6	BRN-5	1.08
8/28	Mill Creek	MC-2	Lower	1	Brown trout	200	204	91.4	BRN-2	1.14
8/28	Mill Creek	MC-2	Lower	1	Brown trout	234	239	120.4	BRN-13	0.94
8/28	Mill Creek	MC-2	Lower	1	Brown trout	314	323	301.0	BRN-20	0.97

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Lower	2	Brown trout	58	62	2.6	--	--
8/28	Mill Creek	MC-2	Lower	2	Brown trout	59	62	2.6	--	--
8/28	Mill Creek	MC-2	Lower	2	Brown trout	59	62	2.2	--	--
8/28	Mill Creek	MC-2	Lower	2	Brown trout	61	65	3.0	--	--
8/28	Mill Creek	MC-2	Lower	2	Brown trout	61	65	2.8	--	--
8/28	Mill Creek	MC-2	Lower	2	Brown trout	66	71	3.6	--	--
8/28	Mill Creek	MC-2	Lower	2	Brown trout	71	75	4.4	--	1.23
8/28	Mill Creek	MC-2	Lower	2	Brown trout	98	104	10.0	--	1.06
8/28	Mill Creek	MC-2	Lower	2	Brown trout	107	114	14.6	--	1.19
8/28	Mill Creek	MC-2	Lower	2	Brown trout	108	114	15.6	--	1.24
8/28	Mill Creek	MC-2	Lower	2	Brown trout	113	120	15.4	--	1.07
8/28	Mill Creek	MC-2	Lower	2	Brown trout	113	121	18.8	--	1.30
8/28	Mill Creek	MC-2	Lower	2	Brown trout	114	120	15.8	--	1.07
8/28	Mill Creek	MC-2	Lower	2	Brown trout	115	122	16.4	--	1.08
8/28	Mill Creek	MC-2	Lower	2	Brown trout	115	120	17.6	--	1.16
8/28	Mill Creek	MC-2	Lower	2	Brown trout	115	122	17.2	--	1.13
8/28	Mill Creek	MC-2	Lower	2	Brown trout	117	123	16.6	--	1.04
8/28	Mill Creek	MC-2	Lower	2	Brown trout	118	126	18.4	--	1.12
8/28	Mill Creek	MC-2	Lower	2	Brown trout	120	127	19.2	--	1.11
8/28	Mill Creek	MC-2	Lower	2	Brown trout	121	128	21.4	--	1.21
8/28	Mill Creek	MC-2	Lower	2	Brown trout	122	130	20.8	--	1.15
8/28	Mill Creek	MC-2	Lower	2	Brown trout	127	135	25.0	--	1.22
8/28	Mill Creek	MC-2	Lower	2	Brown trout	128	134	22.6	--	1.08
8/28	Mill Creek	MC-2	Lower	2	Brown trout	129	137	24.2	--	1.13
8/28	Mill Creek	MC-2	Lower	2	Brown trout	129	137	21.6	--	1.01
8/28	Mill Creek	MC-2	Lower	2	Brown trout	131	139	24.6	--	1.09

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Lower	2	Brown trout	131	139	24.8	--	1.10
8/28	Mill Creek	MC-2	Lower	2	Brown trout	135	142	27.2	--	1.11
8/28	Mill Creek	MC-2	Lower	2	Brown trout	146	154	30.8	--	0.99
8/28	Mill Creek	MC-2	Lower	2	Brown trout	148	156	41.0	--	1.27
8/28	Mill Creek	MC-2	Lower	2	Brown trout	155	165	39.8	--	1.07
8/28	Mill Creek	MC-2	Lower	2	Brown trout	171	182	59.8	--	1.20
8/28	Mill Creek	MC-2	Lower	3	Brown trout	58	61	2.4	--	--
8/28	Mill Creek	MC-2	Lower	3	Brown trout	65	70	2.8	--	--
8/28	Mill Creek	MC-2	Lower	3	Brown trout	68	71	3.0	--	--
8/28	Mill Creek	MC-2	Lower	3	Brown trout	70	73	4.4	--	--
8/28	Mill Creek	MC-2	Lower	3	Brown trout	111	119	16.4	--	1.20
8/28	Mill Creek	MC-2	Lower	3	Brown trout	113	119	16.0	--	1.11
8/28	Mill Creek	MC-2	Lower	3	Brown trout	121	129	20.6	--	1.16
8/28	Mill Creek	MC-2	Lower	3	Brown trout	140	147	32.6	--	1.19
8/28	Mill Creek	MC-2	Lower	3	Brown trout	190	197	74.4	--	1.09
8/28	Mill Creek	MC-2	Lower	3	Brown trout	205	215	92.2	--	1.07
8/28	Mill Creek	MC-2	Upper	1	Brown trout	55	58	2.0	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	59	62	3.0	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	60	63	2.6	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	61	64	2.8	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	62	66	3.0	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	63	66	3.2	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	63	65	3.2	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	64	66	3.4	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	65	69	3.6	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	66	70	4.2	--	--

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Upper	1	Brown trout	68	71	3.8	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	70	74	3.8	--	--
8/28	Mill Creek	MC-2	Upper	1	Brown trout	71	75	4.2	--	1.17
8/28	Mill Creek	MC-2	Upper	1	Brown trout	72	75	2.8	--	0.75
8/28	Mill Creek	MC-2	Upper	1	Brown trout	72	76	4.4	--	1.18
8/28	Mill Creek	MC-2	Upper	1	Brown trout	72	76	4.8	--	1.29
8/28	Mill Creek	MC-2	Upper	1	Brown trout	100	106	11.8	--	1.18
8/28	Mill Creek	MC-2	Upper	1	Brown trout	108	113	13.8	--	1.10
8/28	Mill Creek	MC-2	Upper	1	Brown trout	108	113	13.4	--	1.06
8/28	Mill Creek	MC-2	Upper	1	Brown trout	110	115	17.0	--	1.28
8/28	Mill Creek	MC-2	Upper	1	Brown trout	114	120	17.6	--	1.19
8/28	Mill Creek	MC-2	Upper	1	Brown trout	115	120	16.0	--	1.05
8/28	Mill Creek	MC-2	Upper	1	Brown trout	116	122	17.8	--	1.14
8/28	Mill Creek	MC-2	Upper	1	Brown trout	116	121	17.0	--	1.09
8/28	Mill Creek	MC-2	Upper	1	Brown trout	119	125	20.2	--	1.20
8/28	Mill Creek	MC-2	Upper	1	Brown trout	121	130	20.0	--	1.13
8/28	Mill Creek	MC-2	Upper	1	Brown trout	123	130	19.2	--	1.03
8/28	Mill Creek	MC-2	Upper	1	Brown trout	125	131	22.4	--	1.15
8/28	Mill Creek	MC-2	Upper	1	Brown trout	127	134	23.8	--	1.16
8/28	Mill Creek	MC-2	Upper	1	Brown trout	129	135	24.1	--	1.12
8/28	Mill Creek	MC-2	Upper	1	Brown trout	129	135	23.0	--	1.07
8/28	Mill Creek	MC-2	Upper	1	Brown trout	132	139	27.0	--	1.17
8/28	Mill Creek	MC-2	Upper	1	Brown trout	134	141	25.4	--	1.06
8/28	Mill Creek	MC-2	Upper	1	Brown trout	143	150	33.6	--	1.15
8/28	Mill Creek	MC-2	Upper	1	Brown trout	145	154	33.6	--	1.10
8/28	Mill Creek	MC-2	Upper	1	Brown trout	145	151	36.2	--	1.19

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Upper	1	Brown trout	146	152	33.4	--	1.07
8/28	Mill Creek	MC-2	Upper	1	Brown trout	154	163	29.8	--	0.82
8/28	Mill Creek	MC-2	Upper	1	Brown trout	156	164	40.4	--	1.06
8/28	Mill Creek	MC-2	Upper	1	Brown trout	159	166	44.2	--	1.10
8/28	Mill Creek	MC-2	Upper	1	Brown trout	160	169	43.8	--	1.07
8/28	Mill Creek	MC-2	Upper	1	Brown trout	185	195	72.4	--	1.14
8/28	Mill Creek	MC-2	Upper	1	Brown trout	189	199	79.2	--	1.17
8/28	Mill Creek	MC-2	Upper	1	Brown trout	190	199	83.0	--	1.21
8/28	Mill Creek	MC-2	Upper	1	Brown trout	198	206	83.2	--	1.07
8/28	Mill Creek	MC-2	Upper	1	Brown trout	205	214	99.8	--	1.16
8/28	Mill Creek	MC-2	Upper	1	Brown trout	209	219	96.4	--	1.06
8/28	Mill Creek	MC-2	Upper	1	Brown trout	218	225	114.4	--	1.10
8/28	Mill Creek	MC-2	Upper	2	Brown trout	50	53	1.4	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	58	61	2.8	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	59	62	2.2	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	60	64	2.8	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	60	63	2.4	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	63	66	3.2	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	69	73	5.0	--	--
8/28	Mill Creek	MC-2	Upper	2	Brown trout	103	108	12.2	--	1.12
8/28	Mill Creek	MC-2	Upper	2	Brown trout	115	121	17.8	--	1.17
8/28	Mill Creek	MC-2	Upper	2	Brown trout	117	122	17.2	--	1.07
8/28	Mill Creek	MC-2	Upper	2	Brown trout	118	124	18.0	--	1.10
8/28	Mill Creek	MC-2	Upper	2	Brown trout	120	128	20.0	--	1.16
8/28	Mill Creek	MC-2	Upper	2	Brown trout	121	127	18.6	--	1.05
8/28	Mill Creek	MC-2	Upper	2	Brown trout	127	133	22.2	--	1.08

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/28	Mill Creek	MC-2	Upper	2	Brown trout	161	171	46.8	--	1.12
8/28	Mill Creek	MC-2	Upper	2	Brown trout	163	173	46.8	--	1.08
8/28	Mill Creek	MC-2	Upper	2	Brown trout	195	203	79.0	--	1.07
8/28	Mill Creek	MC-2	Upper	2	Brown trout	239	249	134.4	--	0.98
8/28	Mill Creek	MC-2	Upper	3	Brown trout	56	59	2.8	--	--
8/28	Mill Creek	MC-2	Upper	3	Brown trout	71	75	4.8	--	1.34
8/28	Mill Creek	MC-2	Upper	3	Brown trout	71	75	4.2	--	1.17
8/28	Mill Creek	MC-2	Upper	3	Brown trout	74	76	4.8	--	1.19
8/28	Mill Creek	MC-2	Upper	3	Brown trout	113	121	15.2	--	1.05
8/28	Mill Creek	MC-2	Upper	3	Brown trout	120	126	18.4	--	1.07
8/28	Mill Creek	MC-2	Upper	3	Brown trout	125	132	23.6	--	1.21
8/28	Mill Creek	MC-2	Upper	3	Brown trout	211	221	108.4	--	1.15
8/29	Mill Creek	MC-3	Lower	1	Brown trout	51	53	1.6	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	52	55	1.6	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	53	56	1.6	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	55	57	2.4	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	56	59	2.6	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	56	58	1.8	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	57	60	2.2	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	58	61	2.2	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	58	61	2.2	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	60	64	2.8	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	61	64	2.2	BRN-10	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	62	65	--	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	62	65	2.2	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	64	68	2.6	BRN-15	--

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/29	Mill Creek	MC-3	Lower	1	Brown trout	64	67	3.4	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	64	68	3.4	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	65	70	3.0	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	66	70	3.0	Brown trout-16	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	66	69	3.0	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	67	70	3.4	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	68	71	3.6	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	70	74	5.4	BRN-1	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	70	75	3.8	--	--
8/29	Mill Creek	MC-3	Lower	1	Brown trout	71	75	4.2	--	1.17
8/29	Mill Creek	MC-3	Lower	1	Brown trout	74	77	4.6	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	75	78	4.2	--	1.00
8/29	Mill Creek	MC-3	Lower	1	Brown trout	75	79	4.2	--	1.00
8/29	Mill Creek	MC-3	Lower	1	Brown trout	75	79	5.2	--	1.23
8/29	Mill Creek	MC-3	Lower	1	Brown trout	75	80	4.2	--	1.00
8/29	Mill Creek	MC-3	Lower	1	Brown trout	77	82	5.6	--	1.23
8/29	Mill Creek	MC-3	Lower	1	Brown trout	78	83	6.0	--	1.26
8/29	Mill Creek	MC-3	Lower	1	Brown trout	98	113	14.0	--	1.49
8/29	Mill Creek	MC-3	Lower	1	Brown trout	98	104	11.4	--	1.21
8/29	Mill Creek	MC-3	Lower	1	Brown trout	103	108	11.6	--	1.06
8/29	Mill Creek	MC-3	Lower	1	Brown trout	104	109	10.6	--	0.94
8/29	Mill Creek	MC-3	Lower	1	Brown trout	105	107	12.6	--	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	105	110	12.0	--	1.04
8/29	Mill Creek	MC-3	Lower	1	Brown trout	108	115	15.0	--	1.19
8/29	Mill Creek	MC-3	Lower	1	Brown trout	109	115	13.8	--	1.07

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/29	Mill Creek	MC-3	Lower	1	Brown trout	109	115	16.2	--	1.25
8/29	Mill Creek	MC-3	Lower	1	Brown trout	109	115	14.6	--	1.13
8/29	Mill Creek	MC-3	Lower	1	Brown trout	110	116	16.6	BRN-2	1.25
8/29	Mill Creek	MC-3	Lower	1	Brown trout	114	121	16.2	BRN-13	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	114	122	18.2	BRN-18	1.23
8/29	Mill Creek	MC-3	Lower	1	Brown trout	115	121	16.2	--	1.07
8/29	Mill Creek	MC-3	Lower	1	Brown trout	115	122	17.4	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	115	122	16.2	--	1.07
8/29	Mill Creek	MC-3	Lower	1	Brown trout	115	122	16.8	--	1.11
8/29	Mill Creek	MC-3	Lower	1	Brown trout	115	122	16.6	--	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	115	122	17.2	--	1.13
8/29	Mill Creek	MC-3	Lower	1	Brown trout	116	123	18.2	--	1.17
8/29	Mill Creek	MC-3	Lower	1	Brown trout	116	123	17.2	--	1.10
8/29	Mill Creek	MC-3	Lower	1	Brown trout	116	124	16.8	--	1.08
8/29	Mill Creek	MC-3	Lower	1	Brown trout	117	123	19.6	--	1.22
8/29	Mill Creek	MC-3	Lower	1	Brown trout	118	125	18.4	--	1.12
8/29	Mill Creek	MC-3	Lower	1	Brown trout	119	125	18.6	--	1.10
8/29	Mill Creek	MC-3	Lower	1	Brown trout	120	127	20.0	--	1.16
8/29	Mill Creek	MC-3	Lower	1	Brown trout	120	127	20.8	--	1.20
8/29	Mill Creek	MC-3	Lower	1	Brown trout	120	129	20.2	--	1.17
8/29	Mill Creek	MC-3	Lower	1	Brown trout	123	130	20.8	--	1.12
8/29	Mill Creek	MC-3	Lower	1	Brown trout	124	133	22.8	--	1.20
8/29	Mill Creek	MC-3	Lower	1	Brown trout	125	132	22.0	--	1.13
8/29	Mill Creek	MC-3	Lower	1	Brown trout	125	133	21.6	--	1.11
8/29	Mill Creek	MC-3	Lower	1	Brown trout	125	133	21.4	--	1.10
8/29	Mill Creek	MC-3	Lower	1	Brown trout	126	134	23.4	--	1.17

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/29	Mill Creek	MC-3	Lower	1	Brown trout	129	136	22.6	--	1.05
8/29	Mill Creek	MC-3	Lower	1	Brown trout	129	136	23.4	--	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	130	137	23.4	--	1.07
8/29	Mill Creek	MC-3	Lower	1	Brown trout	131	136	24.2	--	1.08
8/29	Mill Creek	MC-3	Lower	1	Brown trout	132	140	26.2	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	132	141	26.4	--	1.15
8/29	Mill Creek	MC-3	Lower	1	Brown trout	132	139	25.6	--	1.11
8/29	Mill Creek	MC-3	Lower	1	Brown trout	133	140	26.8	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	134	144	29.0	--	1.21
8/29	Mill Creek	MC-3	Lower	1	Brown trout	134	142	27.8	--	1.16
8/29	Mill Creek	MC-3	Lower	1	Brown trout	134	142	24.0	--	1.00
8/29	Mill Creek	MC-3	Lower	1	Brown trout	134	140	26.2	--	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	135	144	27.2	--	1.11
8/29	Mill Creek	MC-3	Lower	1	Brown trout	137	146	28.8	--	1.12
8/29	Mill Creek	MC-3	Lower	1	Brown trout	139	149	28.0	--	1.04
8/29	Mill Creek	MC-3	Lower	1	Brown trout	141	148	29.8	BRN-3	1.06
8/29	Mill Creek	MC-3	Lower	1	Brown trout	144	151	32.4	--	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	145	152	46.6	BRN-17	1.53
8/29	Mill Creek	MC-3	Lower	1	Brown trout	145	154	36.6	--	1.20
8/29	Mill Creek	MC-3	Lower	1	Brown trout	146	155	34.2	--	1.10
8/29	Mill Creek	MC-3	Lower	1	Brown trout	150	160	40.4	--	1.20
8/29	Mill Creek	MC-3	Lower	1	Brown trout	153	164	42.2	--	1.18
8/29	Mill Creek	MC-3	Lower	1	Brown trout	153	162	39.0	--	1.09
8/29	Mill Creek	MC-3	Lower	1	Brown trout	155	162	39.4	--	1.06
8/29	Mill Creek	MC-3	Lower	1	Brown trout	157	166	45.4	BRN-14	1.17
8/29	Mill Creek	MC-3	Lower	1	Brown trout	161	169	42.2	BRN-9	1.01

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/29	Mill Creek	MC-3	Lower	1	Brown trout	161	171	43.6	BRN-12	1.05
8/29	Mill Creek	MC-3	Lower	1	Brown trout	162	171	46.0	--	1.08
8/29	Mill Creek	MC-3	Lower	1	Brown trout	163	172	53.8	--	1.24
8/29	Mill Creek	MC-3	Lower	1	Brown trout	164	176	47.2	--	1.07
8/29	Mill Creek	MC-3	Lower	1	Brown trout	164	171	50.4	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	165	175	56.4	BRN-11	1.26
8/29	Mill Creek	MC-3	Lower	1	Brown trout	173	183	59.8	--	1.16
8/29	Mill Creek	MC-3	Lower	1	Brown trout	174	182	61.6	--	1.17
8/29	Mill Creek	MC-3	Lower	1	Brown trout	175	183	59.6	BRN-7	1.11
8/29	Mill Creek	MC-3	Lower	1	Brown trout	180	192	67.4	--	1.16
8/29	Mill Creek	MC-3	Lower	1	Brown trout	186	195	71.8	--	1.12
8/29	Mill Creek	MC-3	Lower	1	Brown trout	186	195	78.8	--	1.23
8/29	Mill Creek	MC-3	Lower	1	Brown trout	186	195	71.0	--	1.10
8/29	Mill Creek	MC-3	Lower	1	Brown trout	186	195	80.4	--	1.25
8/29	Mill Creek	MC-3	Lower	1	Brown trout	186	199	73.6	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	194	204	85.2	BRN-4	1.17
8/29	Mill Creek	MC-3	Lower	1	Brown trout	195	213	89.2	--	1.20
8/29	Mill Creek	MC-3	Lower	1	Brown trout	196	206	86.0	--	1.14
8/29	Mill Creek	MC-3	Lower	1	Brown trout	198	210	27.2	--	0.35
8/29	Mill Creek	MC-3	Lower	1	Brown trout	205	213	101.6	BRN-20	1.18
8/29	Mill Creek	MC-3	Lower	1	Brown trout	219	229	108.8	BRN-19	1.04
8/29	Mill Creek	MC-3	Lower	1	Brown trout	252	261	157.0	BRN-6	0.98
8/29	Mill Creek	MC-3	Lower	1	Brown trout	269	276	217.2	BRN-8	1.12
8/29	Mill Creek	MC-3	Lower	1	Brown trout	294	304	298.4	BRN-5	1.17
8/29	Mill Creek	MC-3	Lower	2	Brown trout	50	52	1.4	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	54	56	1.6	--	--

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/29	Mill Creek	MC-3	Lower	2	Brown trout	55	58	1.8	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	58	61	2.2	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	59	63	2.4	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	59	63	2.2	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	61	65	3.4	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	64	67	3.0	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	65	70	3.0	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	66	69	3.2	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	67	70	3.8	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	70	74	3.6	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	70	74	4.0	--	--
8/29	Mill Creek	MC-3	Lower	2	Brown trout	73	77	4.2	--	1.08
8/29	Mill Creek	MC-3	Lower	2	Brown trout	77	81	5.2	--	1.14
8/29	Mill Creek	MC-3	Lower	2	Brown trout	102	107	10.8	--	1.02
8/29	Mill Creek	MC-3	Lower	2	Brown trout	103	110	14.0	--	1.28
8/29	Mill Creek	MC-3	Lower	2	Brown trout	103	108	12.0	--	1.10
8/29	Mill Creek	MC-3	Lower	2	Brown trout	110	117	16.4	--	1.23
8/29	Mill Creek	MC-3	Lower	2	Brown trout	110	116	14.6	--	1.10
8/29	Mill Creek	MC-3	Lower	2	Brown trout	111	117	13.2	--	0.97
8/29	Mill Creek	MC-3	Lower	2	Brown trout	112	119	15.2	--	1.08
8/29	Mill Creek	MC-3	Lower	2	Brown trout	128	136	21.8	--	1.04
8/29	Mill Creek	MC-3	Lower	2	Brown trout	129	138	23.4	--	1.09
8/29	Mill Creek	MC-3	Lower	2	Brown trout	130	138	26.6	--	1.21
8/29	Mill Creek	MC-3	Lower	2	Brown trout	130	139	26.4	--	1.20
8/29	Mill Creek	MC-3	Lower	2	Brown trout	131	139	26.6	--	1.18
8/29	Mill Creek	MC-3	Lower	2	Brown trout	134	142	28.0	--	1.16

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8/29	Mill Creek	MC-3	Lower	2	Brown trout	137	145	28.8	--	1.12
8/29	Mill Creek	MC-3	Lower	2	Brown trout	148	154	31.6	--	0.98
8/29	Mill Creek	MC-3	Lower	2	Brown trout	148	155	36.0	--	1.11
8/29	Mill Creek	MC-3	Lower	2	Brown trout	169	178	53.8	--	1.12
8/29	Mill Creek	MC-3	Lower	2	Brown trout	171	181	65.2	--	1.30
8/29	Mill Creek	MC-3	Lower	2	Brown trout	182	193	67.4	--	1.12
8/29	Mill Creek	MC-3	Lower	2	Brown trout	186	198	73.4	--	1.14
8/29	Mill Creek	MC-3	Lower	2	Brown trout	187	198	81.2	--	1.24
8/29	Mill Creek	MC-3	Lower	2	Brown trout	222	--	126.4	--	1.16
8/29	Mill Creek	MC-3	Lower	3	Brown trout	68	72	3.4	--	--
8/29	Mill Creek	MC-3	Lower	3	Brown trout	80	89	3.6	--	0.70
8/29	Mill Creek	MC-3	Lower	3	Brown trout	97	102	10.2	--	1.12
8/29	Mill Creek	MC-3	Lower	3	Brown trout	110	117	15.4	--	1.16
8/29	Mill Creek	MC-3	Lower	3	Brown trout	110	114	11.8	--	0.89
8/29	Mill Creek	MC-3	Lower	3	Brown trout	119	126	19.6	--	1.16
8/29	Mill Creek	MC-3	Lower	3	Brown trout	121	128	18.8	--	1.06
8/29	Mill Creek	MC-3	Lower	3	Brown trout	135	144	30.0	--	1.22
8/29	Mill Creek	MC-3	Lower	3	Brown trout	143	152	31.8	--	1.09
8/29	Mill Creek	MC-3	Lower	3	Brown trout	147	153	35.6	--	1.12
8/29	Mill Creek	MC-3	Lower	3	Brown trout	171	182	55.2	--	1.10
8/29	Mill Creek	MC-3	Lower	3	Brown trout	191	202	80.6	--	1.16
8/29	Mill Creek	MC-3	Lower	3	Brown trout	198	207	89.6	--	1.15
8/29	Mill Creek	MC-3	Lower	3	Brown trout	274	284	231.8	--	1.13
8/29	Mill Creek	MC-3	Upper	1	Brown trout	50	52	1.8	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	51	53	2.2	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	57	59	2.4	--	--

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8/29	Mill Creek	MC-3	Upper	1	Brown trout	57	60	2.2	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	58	61	2.2	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	60	63	2.8	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	60	63	3.0	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	62	65	2.8	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	64	66	3.2	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	65	68	3.6	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	66	70	4.4	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	68	71	3.8	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	68	71	3.4	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	68	70	4.0	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	69	73	4.2	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	69	72	4.0	--	--
8/29	Mill Creek	MC-3	Upper	1	Brown trout	71	73	6.6	--	1.84
8/29	Mill Creek	MC-3	Upper	1	Brown trout	72	77	4.8	--	1.29
8/29	Mill Creek	MC-3	Upper	1	Brown trout	74	78	6.4	--	1.58
8/29	Mill Creek	MC-3	Upper	1	Brown trout	75	78	5.4	--	1.28
8/29	Mill Creek	MC-3	Upper	1	Brown trout	78	81	6.4	--	1.35
8/29	Mill Creek	MC-3	Upper	1	Brown trout	80	84	6.4	--	1.25
8/29	Mill Creek	MC-3	Upper	1	Brown trout	89	94	8.8	--	1.25
8/29	Mill Creek	MC-3	Upper	1	Brown trout	110	114	14.2	--	1.07
8/29	Mill Creek	MC-3	Upper	1	Brown trout	115	123	18.4	--	1.21
8/29	Mill Creek	MC-3	Upper	1	Brown trout	115	119	19.0	--	1.25
8/29	Mill Creek	MC-3	Upper	1	Brown trout	116	123	17.4	--	1.12
8/29	Mill Creek	MC-3	Upper	1	Brown trout	120	127	20.8	--	1.20
8/29	Mill Creek	MC-3	Upper	1	Brown trout	121	126	21.4	--	1.21

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8/29	Mill Creek	MC-3	Upper	1	Brown trout	121	128	20.4	--	1.15
8/29	Mill Creek	MC-3	Upper	1	Brown trout	123	130	21.6	--	1.16
8/29	Mill Creek	MC-3	Upper	1	Brown trout	124	130	20.2	--	1.06
8/29	Mill Creek	MC-3	Upper	1	Brown trout	126	133	22.4	--	1.12
8/29	Mill Creek	MC-3	Upper	1	Brown trout	127	134	22.6	--	1.10
8/29	Mill Creek	MC-3	Upper	1	Brown trout	127	135	24.0	--	1.17
8/29	Mill Creek	MC-3	Upper	1	Brown trout	128	133	23.2	--	1.11
8/29	Mill Creek	MC-3	Upper	1	Brown trout	135	142	30.6	--	1.24
8/29	Mill Creek	MC-3	Upper	1	Brown trout	135	146	28.2	--	1.15
8/29	Mill Creek	MC-3	Upper	1	Brown trout	137	145	31.4	--	1.22
8/29	Mill Creek	MC-3	Upper	1	Brown trout	138	146	32.0	--	1.22
8/29	Mill Creek	MC-3	Upper	1	Brown trout	139	148	31.6	--	1.18
8/29	Mill Creek	MC-3	Upper	1	Brown trout	145	152	33.8	--	1.11
8/29	Mill Creek	MC-3	Upper	1	Brown trout	147	155	33.6	--	1.06
8/29	Mill Creek	MC-3	Upper	1	Brown trout	147	158	36.8	--	1.16
8/29	Mill Creek	MC-3	Upper	1	Brown trout	161	172	49.0	--	1.17
8/29	Mill Creek	MC-3	Upper	1	Brown trout	164	175	51.4	--	1.17
8/29	Mill Creek	MC-3	Upper	1	Brown trout	165	174	49.6	--	1.10
8/29	Mill Creek	MC-3	Upper	1	Brown trout	172	182	57.2	--	1.12
8/29	Mill Creek	MC-3	Upper	1	Brown trout	178	186	63.8	--	1.13
8/29	Mill Creek	MC-3	Upper	1	Brown trout	180	191	51.2	--	0.88
8/29	Mill Creek	MC-3	Upper	1	Brown trout	192	201	64.0	--	0.90
8/29	Mill Creek	MC-3	Upper	1	Brown trout	199	209	86.2	--	1.09
8/29	Mill Creek	MC-3	Upper	1	Brown trout	208	219	99.8	--	1.11
8/29	Mill Creek	MC-3	Upper	1	Brown trout	246	255	165.4	--	1.11
8/29	Mill Creek	MC-3	Upper	2	Brown trout	48	50	1.4	--	--

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Survey Date (2025)	Stream	Study Site	Segment	Pass Number	Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Scale Sample ID	Fulton's Condition Factor (k-Value)[a,b]
8/29	Mill Creek	MC-3	Upper	2	Brown trout	64	67	3.4	--	--
8/29	Mill Creek	MC-3	Upper	2	Brown trout	66	70	4.6	--	--
8/29	Mill Creek	MC-3	Upper	2	Brown trout	73	76	4.8	--	1.23
8/29	Mill Creek	MC-3	Upper	2	Brown trout	112	119	17.4	--	1.24
8/29	Mill Creek	MC-3	Upper	2	Brown trout	116	123	19.8	--	1.27
8/29	Mill Creek	MC-3	Upper	2	Brown trout	125	134	23.6	--	1.21
8/29	Mill Creek	MC-3	Upper	2	Brown trout	131	139	28.2	--	1.25
8/29	Mill Creek	MC-3	Upper	2	Brown trout	147	155	36.0	--	1.13
8/29	Mill Creek	MC-3	Upper	2	Brown trout	152	157	28.0	--	0.80
8/29	Mill Creek	MC-3	Upper	2	Brown trout	198	209	100.4	--	1.29
8/29	Mill Creek	MC-3	Upper	3	Brown trout	49	51	1.2	--	--
8/29	Mill Creek	MC-3	Upper	3	Brown trout	64	66	3.4	--	--
8/29	Mill Creek	MC-3	Upper	3	Brown trout	64	67	3.0	--	--
8/29	Mill Creek	MC-3	Upper	3	Brown trout	75	78	4.8	--	1.14
8/29	Mill Creek	MC-3	Upper	3	Brown trout	80	84	5.8	--	1.13
8/29	Mill Creek	MC-3	Upper	3	Brown trout	114	120	15.8	--	1.07
8/29	Mill Creek	MC-3	Upper	3	Brown trout	122	130	21.2	--	1.17
8/29	Mill Creek	MC-3	Upper	3	Brown trout	129	136	25.6	--	1.19
8/29	Mill Creek	MC-3	Upper	3	Brown trout	181	191	65.2	--	1.10
8/29	Mill Creek	MC-3	Upper	3	Brown trout	181	189	73.4	--	1.24

-- = no data; BK = brook trout; BRN = brown trout; g = grams; mm = millimeters

Notes:

[a] Nutritional state calculated using a weight-to-length relationship of individual fish based (Ricker,1975).

[b] Fish less than 70-millimeter fork length were excluded from k-value calculations due to the sensitivity of the scale during poor weather conditions.

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APPENDIX C
FISH COMMUNITY STREAM SURVEY SITE PHOTOGRAPHS

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Figure C-1. AQ-1 Mill Creek Electrofishing Site MC-1, Upstream Net of Lower Segment, Looking Upstream, August 27, 2025.



Figure C-2. AQ-1 Mill Creek Electrofishing Site MC-1, Downstream Net of Lower Segment, Looking Upstream, August 27, 2025.

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Figure C-3. AQ-1 Mill Creek Electrofishing Site MC-1, Downstream Net of Upper Segment, Looking Upstream, August 27, 2025.



Figure C-4. AQ-1 Mill Creek Electrofishing Site MC-1, Upstream Net of Upper Segment, Looking Upstream, August 27, 2025.

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Figure C-5. AQ-1 Mill Creek Electrofishing Site MC-1, Overview of Upper Segment, Looking Downstream, August 27, 2025.



Figure C-6. AQ-1 Mill Creek Electrofishing Site MC-1, Overview of Upper Segment, Looking Upstream, August 27, 2025.

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Figure C-7. AQ-1 Mill Creek Electrofishing Site MC-1, Overview of Lower Segment, Looking Downstream, August 27, 2025.



Figure C-8. AQ-1 Mill Creek Electrofishing Site MC-1, Overview of Lower Segment, Looking Upstream, August 27, 2025.

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Figure C-9. AQ-1 Mill Creek Electrofishing Site MC-2, Upstream Net of Lower Segment, Looking Upstream, August 28, 2025.



Figure C-10. AQ-1 Mill Creek Electrofishing Site MC-2, Downstream Net of Lower Segment, Looking Upstream, August 28,2025.

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Figure C-11. AQ-1 Mill Creek Electrofishing Site MC-2, Upstream Net of Upper Segment, Looking Downstream, August 28, 2025.



Figure C-12. AQ-1 Mill Creek Electrofishing Site MC-2, Downstream Net of Upper Segment, Looking Upstream, August 28, 2025.

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Figure C-13. AQ-1 Mill Creek Electrofishing Site MC-2, Overview of Upper Segment, Looking Downstream, August 28, 2025.



Figure C-14. AQ-1 Mill Creek Electrofishing Site MC-2, Overview of Upper Segment, Looking Downstream, August 28, 2025.

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Figure C-15. AQ-1 Mill Creek Electrofishing Site MC-2, Overview of Lower Segment, Looking Downstream, August 28, 2025.



Figure C-16. AQ-1 Mill Creek Electrofishing Site MC-2, Overview of Lower Segment, Looking Downstream, August 28, 2025.

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Figure C-17. AQ-1 Mill Creek Electrofishing Site MC-3, Upstream Net of Lower Segment, Looking Downstream, August 29, 2025.



Figure C-18. AQ-1 Mill Creek Electrofishing Site MC-3, Downstream Net of Lower Segment, Looking Upstream, August 29, 2025.

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Figure C-19. AQ-1 Mill Creek Electrofishing Site MC-3, Upstream Net of Upper Segment, Looking Upstream, August 29, 2025.



Figure C-20. AQ-1 Mill Creek Electrofishing Site MC-3, Downstream Net of Upper Segment, Looking Downstream, August 29, 2025.

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Figure C-21. AQ-1 Mill Creek Electrofishing Site MC-3, Overview of Upper Segment, Looking Downstream, August 29, 2025.



Figure C-22. AQ-1 Mill Creek Electrofishing Site MC-3, Overview of Upper Segment, Looking Downstream, August 29, 2025.

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Figure C-23. AQ-1 Mill Creek Electrofishing Site MC-3, Overview of Lower Segment, Looking Upstream, August 29, 2025.



Figure C-24. AQ-1 Mill Creek Electrofishing Site MC-3, Overview of Lower Segment, Looking Downstream, August 29, 2025.

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APPENDIX D
LUNDY LAKE FISH CAPTURE DATA

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Table D-1. AQ-1 Lundy Lake Fish Capture Data, August 2025

Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/25	Lundy Lake	LL-1J	Gillnet	Day	-- [a]	--	--	--	--	--	--
8/25	Lundy Lake	LL-1A	Gillnet	Day	Brown trout	171	179	52.5	1.05	BRN-L1	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Day	Brown trout	306	317	317.6	1.11	BRN-L2	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Day	Brown trout	281	294	267.4	1.21	BRN-L3	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Day	Rainbow Trout	359	370	462.4	1.00	RBT-L1	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Day	Tui Chub	248	267	225.6	--	--	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Day	Brown trout	290	303	238.8	0.98	BRN-L4	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Day	Brown trout	276	288	216.5	1.03	BRN-L5	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Day	-- [a]	--	--	--	--	--	--
8/25	Lundy Lake	LL-3A	Gillnet	Day	Tui chub	260	278	228.8	--	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Day	Tui chub	229	245	184.4	--	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Day	Brown trout	490	508	1750	1.49	BRN-L6	Wild
8/25	Lundy Lake	LL-1J	Gillnet	Night	Tui chub	125	138	30.4	--	--	Wild
8/25	Lundy Lake	LL-1J	Gillnet	Night	Tui chub	118	126	25	--	--	Wild

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Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/25	Lundy Lake	LL-1J	Gillnet	Night	Tui chub	108	116	17.2	--	--	Wild
8/25	Lundy Lake	LL-1J	Gillnet	Night	Brown trout	250	266	170	1.09	BRN-L7	Wild
8/25	Lundy Lake	LL-1J	Gillnet	Night	Brown trout	269	285	206.2	1.06	BRN-L8	Wild
8/25	Lundy Lake	LL-1J	Gillnet	Night	Brown trout	288	302	226.2	0.95	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Tui chub	215	230	141.8	--	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Tui chub	198	215	121.2	--	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Tui chub	170	181	79.2	--	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	380	396	706	1.29	BRN-L10	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	274	290	195	0.95	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	274	290	221.2	1.08	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	305	318	305.2	1.08	BRN-L9	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	265	279	188.2	1.01	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	266	279	203.2	1.08	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	270	286	204	1.04	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Tui chub	195	208	114	--	--	Wild

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Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	276	290	236	1.12	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Tui chub	180	193	98.4	--	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Tui chub	180	195	95.2	--	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	278	290	197.4	0.92	--	Wild
8/25	Lundy Lake	LL-1A	Gillnet	Night	Brown trout	238	252	159.2	1.18	--	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Night	Brown trout	252	265	162	1.01	--	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Night	Brown trout	204	215	94.4	1.11	BRN-L11	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Night	Brown trout	265	275	182.6	0.98	--	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Night	Brown trout	250	265	178.4	1.14	--	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Night	Brown trout	261	271	173	0.97	--	Wild
8/25	Lundy Lake	LL-2A	Gillnet	Night	Brown trout	175	184	58	1.08	BRN-L12	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	95	103	12.2	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	130	140	30.2	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	120	130	23.4	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Brown trout	249	261	175.2	1.13	--	Wild

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Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/25	Lundy Lake	LL-2J	Gillnet	Night	Brown trout	266	279	200.2	1.06	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	135	145	37.2	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	130	140	34.8	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	110	121	25.4	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	99	105	13.4	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	90	100	12.6	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	130	139	34.4	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	126	134	31.2	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	100	109	13.4	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	111	119	21.6	--	--	Wild
8/25	Lundy Lake	LL-2J	Gillnet	Night	Tui chub	137	146	39	--	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	252	266	163	1.02	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	280	296	224.8	1.02	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Tui chub	100	109	13.2	--	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	259	275	179.6	1.03	--	Wild

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Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	254	268	175	1.07	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	294	307	273.6	1.08	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	270	286	212.2	1.08	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Brown trout	220	232	126.6	1.19	BRN-L14	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Tui chub	110	120	20.2	--	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Tui chub	105	110	13.2	--	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Tui chub	110	119	21	--	--	Wild
8/25	Lundy Lake	LL-3J	Gillnet	Night	Tui chub	95	110	11.4	--	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Tui chub	225	245	177	--	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Brown trout	280	295	225.2	1.03	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Tui chub	215	233	180	--	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Brown trout	248	265	168.8	1.11	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Brown trout	285	301	245.6	1.06	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Brown trout	280	296	257.4	1.17	--	Wild
8/25	Lundy Lake	LL-3A	Gillnet	Night	Brown trout	285	300	218.6	0.94	--	Wild

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Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/25	Lundy Lake	LL-3A	Gillnet	Night	Brown trout	256	267	166.2	0.99	BRN-L13	Wild
8/26	Lundy Lake	LL-EF1	E-Fish	Night	--[a]	--	--	--	--	--	--
8/26	Lundy Lake	LL-EF2	E-Fish	Night	Brown trout	146	153	32.4	1.04	BRN-15	Wild
8/26	Lundy Lake	LL-EF2	E-Fish	Night	Brown trout	249	263	172.2	1.12	BRN-16	Wild
8/26	Lundy Lake	LL-EF2	E-Fish	Night	Brown trout	265	281	191.8	1.03	--	Wild
8/26	Lundy Lake	LL-EF2	E-Fish	Night	Brown trout	260	275	179	1.02	--	Wild
8/26	Lundy Lake	LL-EF2	E-Fish	Night	Tui chub	195	209	110.8	--	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	275	289	212.4	1.02	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	261	275	198.6	1.12	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	205	219	92	1.07	BRN-17	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	120	130	20.4	1.18	BRN-18	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Tui chub	89	100	11.6	--	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	265	280	196.6	1.06	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Tui chub	78	86	7.6	--	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	155	166	42.2	1.13	BRN-19	Wild

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Date (2025)	Reservoir	Study Site	Sample Method (e-fish / gillnet)	Sample Period (day/night)	Fish Species	Fork Length (mm)	Total Length (mm)	Weight (g)	Fulton's Condition Factor (k-value)[b]	Scale Sample ID	Origin (wild / hatchery)
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Brown trout	270	285	200.4	1.02	--	Wild
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Rainbow trout	302	319	288.2	1.05	RT-01	Hatchery
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Rainbow trout	294	308	285.8	1.12	RT-02	Hatchery
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Rainbow trout	388	405	642.2	1.10	RT-03	Hatchery
8/26	Lundy Lake	LL-EF3	E-Fish	Night	Rainbow trout	402	420	758.8	1.17	RT-04	Hatchery

-- = no data; BRN = brown trout; e-fish = boat electrofish; g = grams; mm = millimeters; RBT = rainbow trout
Notes:
[a] No fish captured.
[b] Nutritional state calculated using a weight-to-length relationship of individual fish based (Ricker,1975).

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APPENDIX E
LUNDY LAKE WATER QUALITY DATA

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Table E-1. AQ-1 Lundy Lake Water Quality Data, August 2025

Reservoir	Study Site	Gear Type	Sample Period (day / night)	Water Temperature (°C)	Dissolved Oxygen		Conductivity (µS/cm)	Specific Conductivity (µS/cm)	pH (s.u.)	Water Depth (ft)		
					(%)[1]	(mg/L)				Min	Max	Mean
Lundy Lake	LL-1J	Gillnet	Day	17.5	--[2]	--[2]	67	57	7.5	10	35	20
Lundy Lake	LL-1A	Gillnet	Day	17.5	--[2]	--[2]	67	57	7.5	15	43	30
Lundy Lake	LL-2A	Gillnet	Day	17.5	--[2]	--[2]	67	57	7.5	10	35	25
Lundy Lake	LL-2J	Gillnet	Day	17.5	--[2]	--[2]	67	57	7.5	13	20	15
Lundy Lake	LL-3J	Gillnet	Day	17.7	--[2]	--[2]	67	57	7.6	10	25	15
Lundy Lake	LL-3A	Gillnet	Day	17.6	--[2]	--[2]	67	57	7.6	12	28	20
Lundy Lake	LL-1J	Gillnet	Night	17.2	108	7.8	67	57	7.7	12	26	20
Lundy Lake	LL-1A	Gillnet	Night	17.2	108	7.8	67	57	7.7	15	42	30
Lundy Lake	LL-2A	Gillnet	Night	17.3	108	7.8	67	57	7.6	13	40	30
Lundy Lake	LL-2J	Gillnet	Night	17.2	108	7.8	67	57	7.6	13	20	15
Lundy Lake	LL-3J	Gillnet	Night	17.2	108	7.8	67	57	7.7	10	25	15
Lundy Lake	LL-3A	Gillnet	Night	17.3	108	7.8	67	57	7.7	10	28	20
Lundy Lake	LL-EF1	E-Fish	Night	16.8	108	7.9	67	56	7.6	2	10	5
Lundy Lake	LL-EF2	E-Fish	Night	16.7	110	8.0	67	56	7.6	2	10	5
Lundy Lake	LL-EF3	E-Fish	Night	16.6	107	7.8	67	56	7.6	2	6	5

% = percent; °C = degrees Celsius; µs/cm = microsiemens per centimeter; e-fish = boat electrofish; ft = feet; mg/L = milligrams per liter; s.u. = standard unit

Note:

[1] Dissolved oxygen readings were corrected with temperature and local barometric pressure.

[2] Dissolved oxygen measurements not recorded due to sonde error while deploying day time gillnets.

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APPENDIX F
LITERATURE REVIEW

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Citation	Study Location	Flow Release Timing & Magnitude	Brown Trout Life Stage Affected	Observed Effects	Notes
Warren et al. 2009[a]	Stony Clove Creek & Broadstreet Hollow, New York	Winter (January): 1,710–1,900 cfs Spring (April): 3,920 cfs	• Redds • Eggs • Alevins • YOY	• High winter/spring discharge was associated with sharp declines in fall-spawned YOY trout. • Significant negative relationship between January–June peak discharge and fall-spawned YOY abundance.	• Winter floods can scour redds and lead to increased displacement mortality of fry. • In this study, the largest effects coincided with the large early spring floods, but winter peak flows are highlighted as a risk to fall-spawned brown trout year-class strength because of redd scour/egg loss and fry displacement. • The authors found that the timing and magnitude of high winter–spring flows strongly shape recruitment outcomes for salmonids. • Fall spawned fish are resilient, so long as high-magnitude flows (i.e., displacing floods) do not occur annually.
Strange, Moyle & Foin 1992[b]	Martis Creek (Truckee River Basin), California	Winter (January): Model parameterized with “average high” 55 cfs and “extreme high” up to 230 cfs	• Eggs • Alevins • YOY	• Higher winter flows reduce brown trout YOY survival/recruitment. • Decrease in brown trout YOY related to egg/larval loss, redd damage/washout, and density-independent mortality during early development. • Community structure shifts with discharge regime. • High winter flows results in fewer brown trout and increase in spring spawning fish species (i.e., rainbow trout).	• Large fall/winter high-flow events significantly reduce brown trout recruitment by scouring eggs and early life stages, preventing population buildup and shifting competitive and predatory interactions in favor of other species. • YOY brown trout abundance was negatively correlated with mean January discharge in their 10-year dataset. • Model shows alternate fish community states and biotic interactions (competition/predation depending on frequency of winter high-flow events (>60–100+ cfs).

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Citation	Study Location	Flow Release Timing & Magnitude	Brown Trout Life Stage Affected	Observed Effects	Notes
McBain & Trush et al. 2010[c]	Rush Creek & Lee Vining Creek, California	Fall and winter (October–December): 58–94 cfs	Adults Redds	• High winter baseflows (>60–65 cfs) reduce adult low-velocity holding habitat and are linked to poor overwinter survival and a truncated age-class distribution (fewer older fish). • Large winter floods can scour/bury brown trout redds and displace adults.	• This report recommends lower winter baseflows: • 25–29 cfs in Rush Creek, and • 16–20 cfs in Lee Vining Creek. • Authors recommend keeping winter releases low, except during natural flood events. • Winter floods (>250 cfs) should be allowed to pass through the lower reach to maintain geomorphic processes.
George et al. 2015[d]	Upper Esopus Creek, Catskill Mountains, NY	Summer (August): Peak discharges exceeded 100-year recurrence at multiple sites, 1,450– 5,000 cfs.	YOY, Age 1+ Adults	• Brown trout populations showed strong resilience post-flood, with highest YOY densities during the period of study observed 1 year post-flood. • No basin-wide, long-term negative effect detected. • YOY brown trout benefited from improved spawning habitat after floods flushed fine sediment.	• High peak flows did not coincide with brown trout spawning or emergence, avoiding redd scour and fry displacement. • Authors conclude that timing of peak flow events matters: late summer floods cause less damage than winter/spring floods because brown trout emerge in spring and are larger and less vulnerable to displacement and mortality by late August. • Authors emphasize a flood of similar magnitude during the spawning and incubation period would have major negative effects on brown trout populations.

cfs = cubic feet per second; YOY = young-of-year

Notes:

[a] Warren D. R., A. G. Ernst, and B. P. Baldigo. 2009. “Influence of Spring Floods on year Class Strength of Fall- and Spring-Spawning Salmonids in Catskill Mountain Streams.” *Transactions of the American Fisheries Society*, Vol. 138: 200–210.

[b] Strange E. M., P. B. Moyle and T. C. Foin. 1992. “Interactions between Stochastic and Deterministic Processes in Stream Fish Community Assembly.” *Environmental Biology of Fishes*, Vol. 36: 1–15.

[c] McBain & Trush, Inc., and Ross Taylor and Associates. 2010. *Mono Basin Stream Restoration and Monitoring Program: Synthesis of Instream Flow Recommendations to the State Water Resources Control Board and the Los Angeles Department of Water and Power*. April 2010.

[d] George S. D., B. P. Baldigo, A. J. Smith, and G. R. Robinson. 2015. “Effects of Extreme Floods on Trout Populations and Fish Communities in a Catskill Mountain River.” *Freshwater Biology*, 60: 2,511-2,522.

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Lundy Hydroelectric Project
(FERC Project No. 1390)



FISH STRANDING STUDY (AQ-2)
DRAFT TECHNICAL REPORT

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FISH STRANDING STUDY (AQ-2)
DRAFT TECHNICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

October 2026

TABLE OF CONTENTS

Page

1.0 Introduction 1
2.0 Study Goals and Objectives 1
2.1. Study Area 1
3.0 Methods 1
3.1. Study Approach 1
3.2. Site Selection 1
3.3. Hydrology Monitoring 1
3.4. Down-Ramping Analysis 3
3.5. Evaluation of Stranding Risk 3
3.6. Study Plan Modifications 4
3.7. Variances to Approved Methods 4
4.0 Study Results 5
4.1. Site Selection 5
4.2. Stranding Risk 7
4.2.1. Site 1 7
4.2.2. Site 2 10
4.2.3. Site 3 12
4.2.4. Site 4 14
4.2.5. Site 5 16
4.2.6. Site 6 18
4.2.7. Site 7 20
4.3. Hydrology Analysis 22
4.3.1. Hydrology Summary 22

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4.3.2. Stage and Discharge Analysis 24

4.3.3. Down-Ramping Analysis 27

5.0 Discussion of Stranding Risk 31

6.0 References 31

List of Tables

Table 3.3-1 Target Flow Release Schedule based on 2022 Settlement Agreement Ramping Guidelines 2

Table 3.7-1. Target Flow Modification 4

Table 4.1-1. Mill Creek Geomorphic Reaches and Stranding Risk Study Sites 6

Table 4.2-1. Target Flows and Observed Flows During the Study Period 7

Table 4.3-1. Exceedance Probability for Target Flows based on Water Years 2016–2025 24

Table 4.3-2. Estimated Lag Times Between Site 1 and Downstream Sites, July 2025 26

Table 4.3-3. Summary of Down-Ramping Periods and Rates of Change at USGS Gage No. 10287069 (SCE Gage No. 355). 28

Table 4.3-4. Estimated Rates of Change in Water Surface Elevation by Site During Down-Ramping Periods 30

Table 4.3-5. Estimated rates of wetted perimeter dewatering by study site during down-ramping periods 30

List of Figures

Figure 2.1-1. Mill Creek Geomorphic Reaches and Stranding Risk Study Sites. 2

Figure 4.2-1. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 1, July 2025. 8

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Figure 4.2-2. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 1, July 2025. 9

Figure 4.2-3. Proportion (percent) of Transect Wetted Perimeter Within Slope Categories that Corresponds to Stranding Risk and Was Dewatered Between Target Flows During Down-ramping for Each Site, July 2025. 10

Figure 4.2-4. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 2, July 2025. 11

Figure 4.2-5. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 2, July 2025. 12

Figure 4.2-6. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 3, July 2025. 13

Figure 4.2-7. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 3, July 2025. 14

Figure 4.2-8. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 4, July 2025. 15

Figure 4.2-9. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 4, July 2025. 16

Figure 4.2-10. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 5, July 2025. 17

Figure 4.2-11. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 5, July 2025. 18

Figure 4.2-12. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 6, July 2025. 19

Figure 4.2-13. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 6, July 2025. 20

Figure 4.2-14. Channel Cross-Section Topography (river left to river right bank) in Relation to Water Surface Elevation at Different Flow Stages for Site 7, July 2025. 21

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Figure 4.2-15. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 7, July 2025 22

Figure 4.3-1. Peak Flows Recorded at USGS Gage No. 10287069 (SCE Gage No. 355) From Water Years 1991–2025. 23

Figure 4.3-2. Water Year 2016–2025 Summary of Mill Creek Downstream of Lundy Dam, USGS Gage No. 10287069 (SCE Gage No. 355)..... 24

Figure 4.3-3. Synchronized Stage Record for Site 1 through Site 7, July 2025. 26

Figure 4.3-4. Stage-Discharge Rating Curve for Site 7, July 2025. 27

Figure 4.3-5. Water Surface Elevation and Down-Ramping Period at Site 1 and Down-Ramping Period at the USGS Gage. 28

Figure 4.3-6. Water Surface Elevation and Down-Ramping Period at Site 1 and Down-Ramping Period at the USGS Gage. 29

List of Appendices

Appendix A Down-Ramping Detection Methods and Results for USGS Gage No. 10287069

Appendix B Photographs

List of Acronyms and Abbreviations

AQ-2 Study	AQ-2 Fish Stranding Study
cfs	cubic feet per second
FERC	Federal Energy Regulatory Commission
MCRD	Mill Creek Return Ditch
Mm	millimeter
Project	Lundy Hydroelectric Project, FERC Project No. 1390
SCE	Southern California Edison Company
USGS	U.S. Geological Survey

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct the Fish Stranding Study (AQ-2) to gather baseline data on potential fish stranding risk in Mill Creek between Lundy Dam and the Mill Creek Return Ditch (MCRD) and to assess stranding potential associated with Project operations. FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the study (FERC, 2025; SCE, 2024). This Draft Technical Report includes a summary of the methods, collected data, and study results for AQ-2, which will inform the Draft License Application.

2.0 STUDY GOALS AND OBJECTIVES

The goals of the AQ-2 Study are to identify areas of high-stranding risk for fish in Mill Creek between Lundy Dam and the MCRD and assess stranding potential resulting from Project operations. The objectives of this study include the following:

- Compile and summarize hydrologic gage data for use in other resource assessments;
- Characterize flow fluctuations resulting from Project operations and evaluate the associated risk of fish stranding in Mill Creek between Lundy Dam and the MCRD; and
- Establish monitoring locations representative of the variety of channel geomorphic conditions present in Mill Creek between Lundy Dam and the MCRD and assess how operational changes in flow (i.e., controlled releases and down-ramping events) affect surface water elevations at selected sites.

2.1. STUDY AREA

The study area includes a 3.3-mile section of Mill Creek from Lundy Dam downstream to the confluence with the MCRD (i.e., Mill Creek Bypass Reach) (Figure 2.1-1). Locations of the six study sites were selected to represent the range of channel characteristics within the study area. One additional site was established downstream of the MCRD to assess stranding risk in lower Mill Creek.

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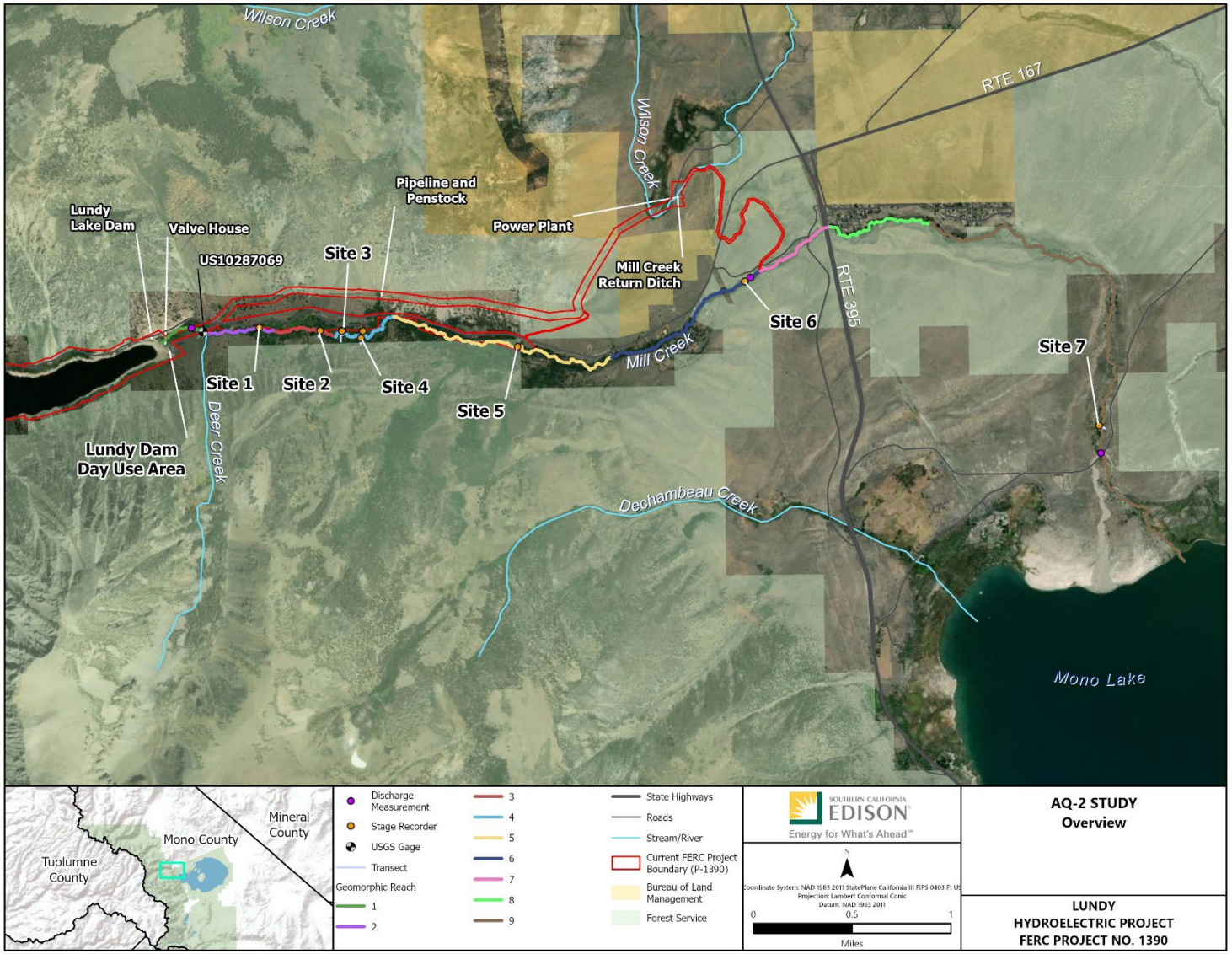


Figure 2.1-1. Mill Creek Geomorphic Reaches and Stranding Risk Study Sites.

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3.0 METHODS

3.1. STUDY APPROACH

The study included three steps: (1) site selection, (2) water surface elevation (hydrology) monitoring, and (3) evaluation of stranding risk. Water surface elevation data were also used to calculate down-ramping rates.

3.2. SITE SELECTION

Available information (e.g., 2022 light detection and ranging data, hydrology data, aerial photography) was used to evaluate stream channel and habitat characteristics in Mill Creek and inform site selection. Geomorphic reaches within the study area were identified by examining channel gradient and planform, dominant bed material, and valley-bottom confinement, which helped to distinguish sub-reaches with varying geomorphic characteristics. These characteristics relate to differences in stream habitat and stranding risk, with steep and confined channels generally having lower stranding risk compared with low-gradient and less-confined channels.

Study sites were selected during a field reconnaissance effort from April 28 to May 1, 2025, with the objective to identify locations that represented the different geomorphic reaches within the study area, were distributed throughout the study area, and represented the diversity of habitat present.

3.3. HYDROLOGY MONITORING

Hydrology monitoring was conducted in two phases during summer 2025: the first phase included establishing transects and installing stage recorders (HOBO Water Level Data Logger U20L-001-04), and the second phase included collecting data during target flow releases.

During the first phase of monitoring, conducted from July 7 to 11, 2025, one transect was established at each study site in areas with representative habitat for the geomorphic reach that intersected locations with potential high-stranding risk. They were selected to characterize site morphology and stranding risk within the wetted perimeter at the highest target flow release (150 cubic feet per second [cfs]). Transects generally ran perpendicular to flow and extended up both banks just beyond the approximate 150-cfs water surface elevation. At sites with more complex topography and hydraulics (e.g., within a beaver pond complex), transects were segmented (i.e., composed of multiple straight lines) to best characterize habitat conditions and stranding risk. Transect installation consisted of surveying cross-section topography along the transect and water surface reference elevations with a real-time kinematic global navigation satellite system (Trimble R12i) or robotic total station (Trimble S-7). Cross-section topography surveys were conducted in sufficient detail (2.5-foot spacing on average) to accurately capture channel topography and characterize channel geometry, following standard United States Forest Service survey procedures similar to those described in Harrelson et al. (1994). The cross-section surveys at each transect captured tops and toes of streambanks, prominent breaks in slope, the bankfull elevation on both banks, the edge of water, the

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thalweg position and elevation, and other significant morphological features. Cross-section endpins consisting of capped rebar were installed on each bank, as needed, and were surveyed to ensure sites could be reoccupied. Stage recorder locations and water surface elevation references were surveyed to correct stage data and document instrument positions.

During the second phase of monitoring, conducted from July 22 to 28, 2025, SCE released seven target flows that spanned the range of flows within its ability to control—from approximately 150 cfs to 5 cfs (Table 3.3-1). Target flow releases were changed each evening and allowed to stabilize overnight. Changes to flow releases followed the 2022 Settlement Agreement ramping guidelines (SCE et al., 2022). For flow changes requiring more than one down-ramping step, operators allowed at least 1 hour between flow adjustments. During each target flow release, stream discharge was measured using a Teledyne RDI River Pro 1,200-kilohertz Acoustic Doppler Current Profiler or SonTek FlowTracker at locations near the upstream and downstream ends of the study area. Stage recorders continuously measured water surface elevation at each monitoring transect over the 7-day study period. Water surface elevation was surveyed in areas along transects that became isolated or disconnected from conditions at the stage recorder, and opportunistic observations of fish stranding or entrapment were noted. Photographs were taken in the vicinity of study sites to document the wetted channel, aquatic habitat, and potential stranding or entrapment conditions at the different target flow releases.

Table 3.3-1 Target Flow Release Schedule based on 2022 Settlement Agreement Ramping Guidelines

Day	Flow Release Type	Time Period1	Approximate Starting Flow (cfs)2	Approximate Ending Flow (cfs)
Day 1	Target	08:00–19:00	150	
	Down-ramp	20:00	150	130
	Down-ramp	21:00	130	110
Day 2	Target	08:00–19:00	110	
	Down-ramp	20:00	110	90
	Down-ramp	21:00	90	70
Day 3	Target	08:00–19:00	70	
	Down-ramp	20:00	70	50
	Down-ramp	21:00	50	30
Day 4	Target	08:00–19:00	30	
	Down-ramp	20:00	30	25
	Down-ramp	21:00	25	20
Day 5	Target	08:00–19:00	20	
	Down-ramp	20:00	20	15
	Down-ramp	21:00	15	10

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Day	Flow Release Type	Time Period1	Approximate Starting Flow (cfs)2	Approximate Ending Flow (cfs)
Day 6	Target	08:00–19:00	10	
	Down-ramp	20:00	10	5
Day 7	**Target**	08:00–19:00	5	

cfs = cubic feet per second; SCE = Southern California Edison Company
Notes:
[1] Time periods are approximate and may vary.
[2] Flows are approximate and dependent on whether access can be achieved safely and are within SCE's operational constraints.

3.4. DOWN-RAMPING ANALYSIS

Study AQ-2 was designed to assess potential stranding risk associated with the range of flows and ramping rates described in the Settlement Agreement. Because the study followed the Settlement Agreement ramping guidelines (SCE et al., 2022), observations during the study can provide insights regarding the potential effects of implementing the guidelines on stranding. However, the sequence and timing of down-ramping during the 7-day study period is likely unique and not representative of typical operations, which would likely down-ramp from 150 cfs to 5 cfs or less over a much shorter period.

The beginning and end of each down-ramping event were estimated based on the U.S. Geological Survey (USGS) gage data. Down-ramping periods were identified from smoothed stage data collected at USGS Gage No. 10287069 (SCE Gage No. 355) and stage recorders at the seven study sites by detecting inflection points in smoothed stage data bounded by two inflection points. Once the down-ramping periods were established, rates of change in water surface elevation during each down-ramping period and between down-ramping periods were estimated by fitting a line to the mean 15-minute stage data for that period. A more detailed explanation of the down-ramping analysis is provided in Appendix A.

3.5. EVALUATION OF STRANDING RISK

The risk of stranding or entrapment associated with changes in water surface elevation between target flows was evaluated for each site by calculating the percentage of wetted perimeter that was dewatered along transects at each site. Wetted perimeter at 150 cfs was assumed to be 100 percent because this flow rate is the maximum controlled flow release at Lundy Dam and the highest flow monitored during the study.

Because bank slope is also a strong determinant of stranding risk (Crew et al., 2017), the bank slope of inundated wetted perimeters that was dewatered between each target flow was also characterized for each site. For each cross section and flow change, the slope of each surveyed segment within the wetted perimeter was calculated and assigned to one of four categories: 0–1 percent, 1–3 percent, 3–6 percent, and greater than 6 percent. The percentage of dewatered wetted perimeter within each slope category was calculated for each target flow step at each site.

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Bed substrate characteristics and the presence of complex structure (e.g., woody debris, vegetation) are also determinants of stranding risk and were documented for each site. Bed substrate was documented for each survey point of site cross sections for the dominant and subdominant substrates. Habitat structure elements were documented qualitatively within site descriptions for each site.

In addition to measurements of stage, water surface elevation, and channel topography, which were used to evaluate stranding risk based on physical channel characteristics, opportunistic visual surveys for stranded or entrapped fish were conducted at each site across the range of target flows evaluated during the study period.

3.6. STUDY PLAN MODIFICATIONS

SCE is not proposing any modifications to Study AQ-2 as approved by FERC in its SPD (FERC, 2025).

3.7. VARIANCES TO APPROVED METHODS

SCE encountered the following variances when implementing the AQ-2 Study Plan as approved by FERC in its SPD (FERC, 2025):

- Prior to field data collection, the target flow release schedule was changed from the example provided in the Revised Study Plan based on additional input from SCE operators and stakeholders to better reflect flow release steps that may be expected during typical operations when down-ramping from the maximum controlled release of 150 cfs to approximately 5 cfs (Table 3.7-1).

- SCE coordination with Robert Di Paolo (Mono Lake Committee), Bartshe Miller (Mono Lake Committee), Graham Meese (CDFW), and Ryan Cooper (CDFW) from March through April 2025 to revise the Target Flow Release Schedule as described in Section 4.0.

Table 3.7-1. Target Flow Modification

Sampling Day	Flow Target in FERC-approved Study Plan (cfs)	Revised Flow Target (cfs)
Day 1	150	150
Day 2	100	110
Day 3	65	70
Day 4	40	30
Day 5	25	20
Day 6	12	10
Day 7	5	5

cfs = cubic feet per second

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- In consultation with California Department of Fish and Wildlife (CDFW) and stakeholders, opportunistic visual surveys were performed to locate fish that became entrapped during the study and could be susceptible to stranding, and when possible to relocate these fish to perennial habitats. Visual surveys were conducted in the vicinity of study sites and expanded to include sections of Reaches 8 and 9 near Mono City.

- SCE conducted a web meeting with Graham Meese (CDFW) July 17, 2025 to review field plan for stranding study prior to implementation. The potential for stranding in reaches downstream of Highway 395 was discussed and CFDW requested field crew to bring equipment (e.g., dip nets) to relocate fish in case fish were observed stranded or entrapped.

- SCE contractors corresponded with Graham Meese (CDFW) via phone July 22–28, 2025 to provide updates on visual observation surveys near Mono City.

- In response to a comment received by the Mono Lake Committee (SCE, 2026a) on the Initial Study Report (SCE, 2026b), rates of stage change and change in wetted perimeter were provided in this technical report (Section 4.3.3).

4.0 STUDY RESULTS

4.1. SITE SELECTION

Nine geomorphic reaches were identified in Mill Creek from Lundy Dam to Mono Lake, including six reaches within the study area (Reaches 1–6) and three reaches outside of the study area in lower Mill Creek downstream of MCRD (Reaches 7–9) (Figure 2.1-1, Table 4.1-1). Seven study sites were identified during field reconnaissance, including six within the study area (Sites 1–6) and one in lower Mill Creek (Site 7) (Figure 2.1-1, Table 4.1-1).

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Table 4.1-1. Mill Creek Geomorphic Reaches and Stranding Risk Study Sites

Reach #	Upstream Reach Boundary Station	Downstream Reach Boundary Station	Reach Average Gradient (%)	Reach Description	Study Sites Within Reach
1	0 ft (0 mi)	1,444 ft (0.3 mi)	1.3	Lundy Dam to Deer Creek confluence, Lundy Dam outfall reach, channel morphology and aquatic habitat are controlled by Project infrastructure; upstream of controlled flow release and compliance point	None
2	1,444 ft (0.3 mi)	3,855 ft (0.7 mi)	4.7	Deer Creek confluence to river station 3,855 feet, moderately complex channel with variable channel confinement	Site 1
3	3,855 ft (0.7 mi)	5,906 ft (1.1 mi)	3.3	River station 3,855 feet to upstream extent of beaver pond complex; increased channel complexity; less-confined, multi-threaded channel; debris flow deposit mantled channel margin	Site 2
4a	5,906 ft (1.1 mi)	7,382 ft (1.4 mi)	1.5	Beaver pond complex, valley bottom dominated by numerous beaver dams and ponds, highly complex flow paths and beaver runways	Site 3 and Site 4
4b	7,382 ft (1.4 mi)	8,448 ft (1.6 mi)	1.5	Downstream extent of beaver pond complex and altered valley bottom morphology, channel valley dissected by numerous active and relict beaver dams and runways	None
5	8,448 ft (1.6 mi)	16,683 ft (3.2 mi)	3.9	Downstream of beaver pond complex to prominent recessional moraine crossing valley floor, confined channel, relatively simple channel planform	Site 5
6	16,683 ft (3.2 mi)	22,835 ft (4.3 mi)	4.0	Downstream of prominent recessional moraine to return ditch confluence, less channel confinement, increased planform complexity	Site 6
7	22,835 ft (4.3 mi)	25,279 ft (4.8 mi)	4.6	Return ditch to Highway 395 crossing, disturbed reach that is highly influenced by Highway 395 alteration	None
8	25,279 ft (4.8 mi)	29,396 ft (5.6 mi)	3.3	Highway 395 crossing to river station 29,396 feet, channel valley bottom confined into incised glacial outwash plain, steep channel gradient	None
9	29,396 ft (5.6 mi)	42,323 ft (8.0 mi)	1.9	River station 29,396 feet to Cemetery Road crossing; lower gradient and less-confined, complex planform channel; multi-thread channel	Site 7

ft = feet; mi = mile

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4.2. STRANDING RISK

Site-specific stage and water surface elevation data and transect topography collected during the study were used to evaluate stranding risk. Relationships were developed between target flows and the proportion of channel cross-sectional length that became dewatered or disconnected between each target flow. Stream discharge measurements were collected at each target flow and indicated that flow releases were close to the targets. Table 4.2-1 provides the target flow releases and measured flows at Mill Creek below Lundy Dam (USGS Gage No. 10287069) for periods when field surveys were performed during the study.

Table 4.2-1. Target Flows and Observed Flows During the Study Period

Sampling Date (2025)	Flow Target (cfs)	Observed Flow (cfs)[a]
7/22	150	147
7/23	110	116
7/24	70	75
7/25	30	28
7/26	20	15
7/27	10	9
7/28	5	5

cfs = cubic feet per second
Note:
[a] Observed flows were calculated as the average of 15-minute discharge data collected at Mill Creek below Lundy Dam between 08:00 and 16:00 each day.

4.2.1. SITE 1

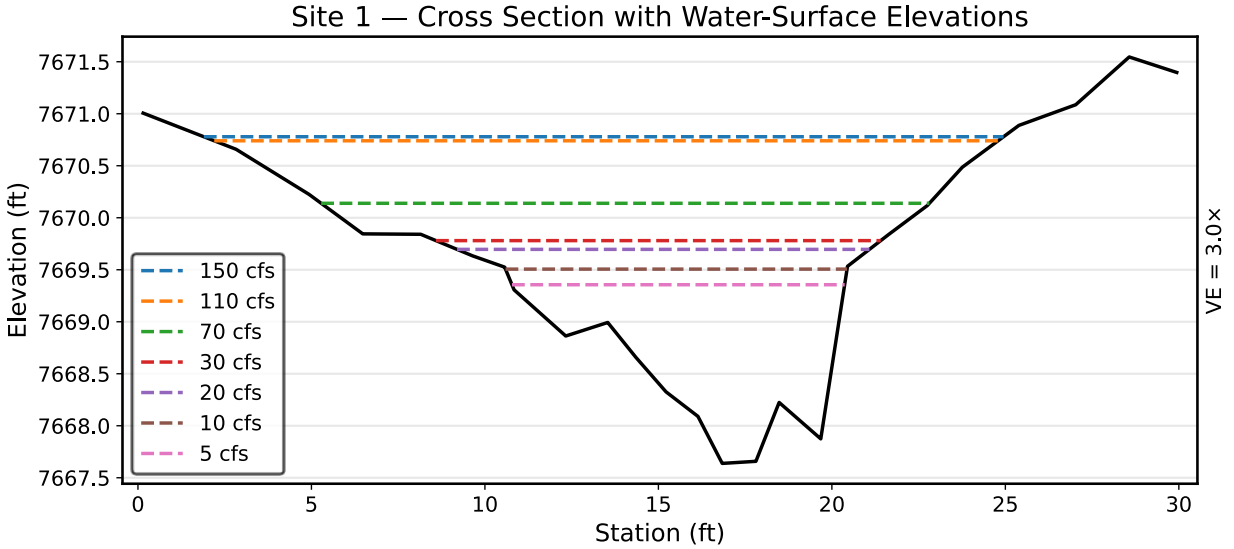
Site 1 was the most upstream sampling location and located within Reach 2, approximately 1,300 feet downstream of the confluence of Deer Creek and Mill Creek and USGS Gage No. 10287069 (Figure 2.1-1). The reach was characterized by a confined valley bottom and steep bank slopes (Table 4.1-1). Channel bed material was composed of gravel (50 percent), cobble (40 percent), and fines (10 percent) substrates[1]. Instream and riparian zones were heavily structured with small and large wood and both woody (e.g., willow) and herbaceous (e.g., grasses and sedges) vegetation (Appendix B). Water was generally contained within the active channel at 150 and 110 cfs; however, overbank flow in a few areas created pockets of low-velocity habitat (Appendix B).

Changes in wetted perimeter were greatest at target flow releases from 110 to 30 cfs (Figure 4.2-1 and Figure 4.2-2). Most dewatered habitat along the transect was relatively high gradient (greater than 6 percent), indicating relatively low stranding risk. High stranding risk habitat (from 0 to 1 percent gradient) occurred at target flow

[1] Bed substrate sizes are based on simplified Wentworth scale of particle size: sand <2 millimeter (mm), gravel 2–64 mm, cobble 64–256 mm, and boulder >256 mm (Wentworth, 1922).

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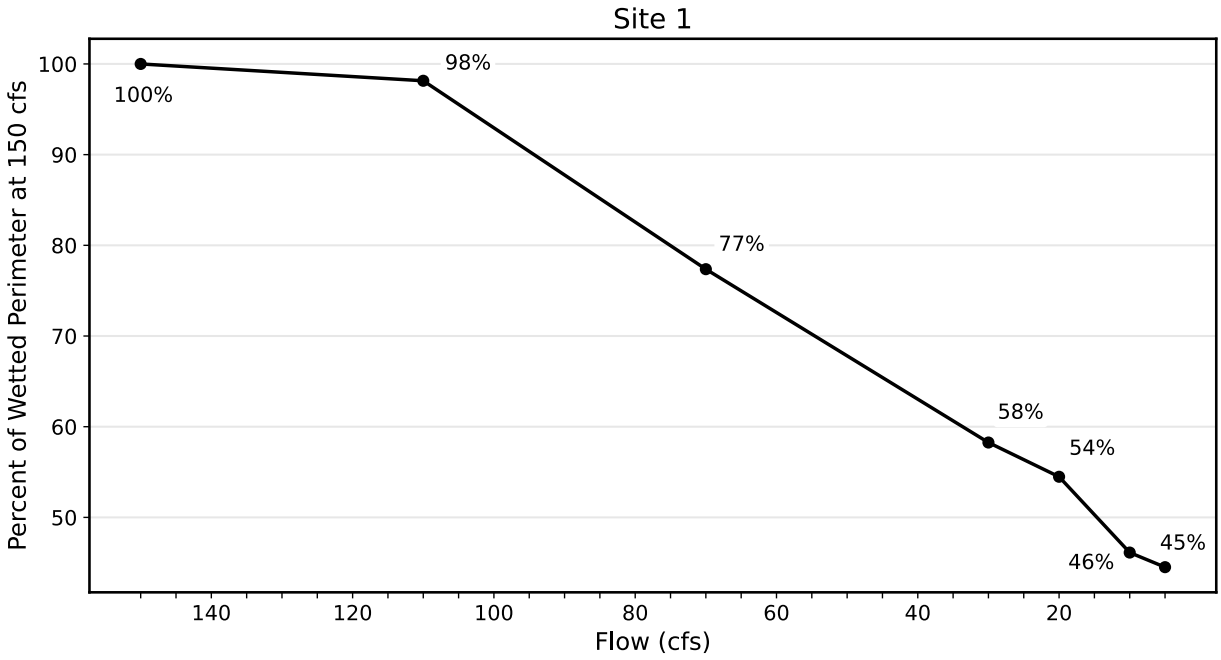
releases between 70 and 30 cfs (Figure 4.2-1 through Figure 4.2-3). No fish were observed stranded or entrapped at Site 1 during the 7-day study period. Based on representative conditions observed at Site 1, stranding risk in Reach 2 is generally expected to be low due to relatively steep banks and a single-thread channel.



cfs = cubic feet per second; ft = feet; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 3 to facilitate readability.

Figure 4.2-1. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 1, July 2025.

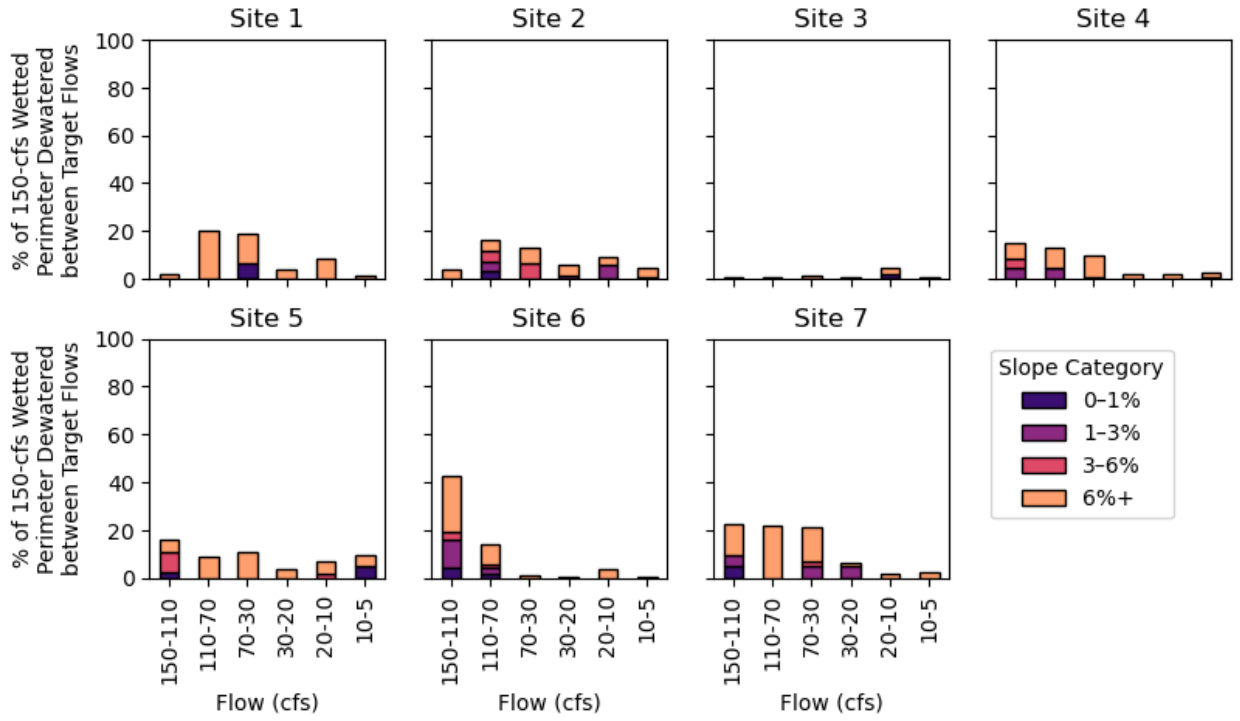
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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150-cfs target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-2. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 1, July 2025.

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% = percent; cfs = cubic feet per second

Figure 4.2-3. Proportion (percent) of Transect Wetted Perimeter Within Slope Categories that Corresponds to Stranding Risk and Was Dewatered Between Target Flows During Down-ramping for Each Site, July 2025.

4.2.2. SITE 2

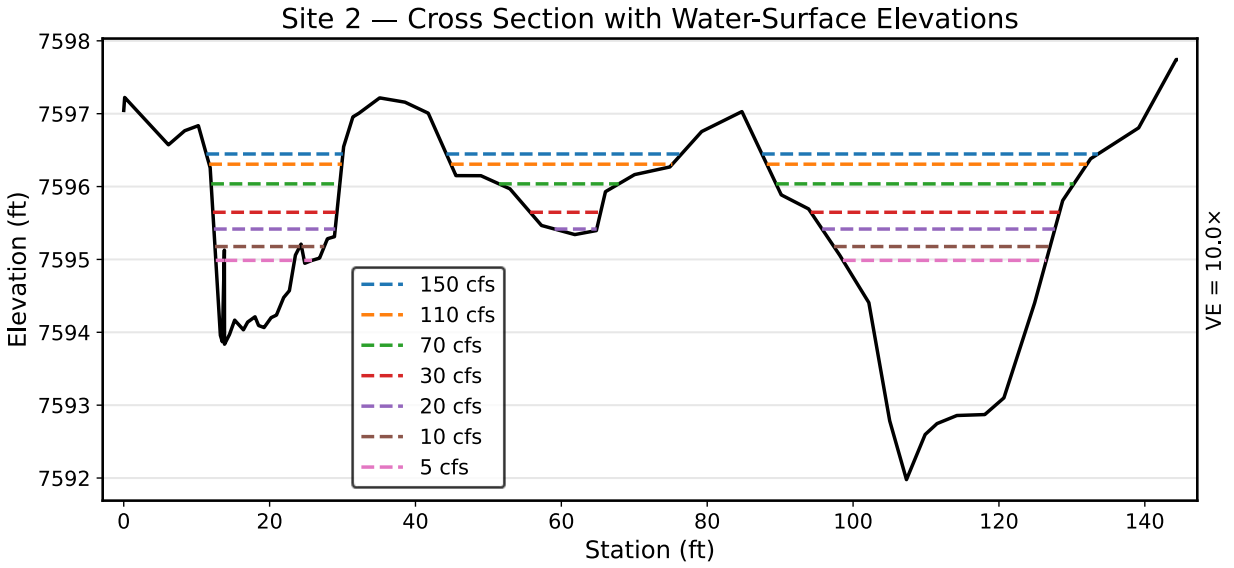
Site 2 was located within Reach 3, approximately 700 feet upstream of a beaver pond complex (Figure 2.1-1). The reach was characterized by a wider valley bottom than Reaches 1 and 2 and a more complex channel planform with multiple flow paths (Table 4.1-1). Channel bed material was composed of gravel (50 percent) and cobble (50 percent), with minimal instream vegetation. A backwater side channel was present downstream of Site 2 at target flow releases above 30 cfs, which provided low-velocity habitat that was heavily structured with woody debris (Appendix B).

Two side-channels were present along river right of the main channel. These side-channels were heavily structured with instream vegetation and large wood and were dominated by gravel and cobble substrates (Appendix B). Flow velocity in the side channels was slower relative to the main channel. Target flow releases of 150 and 110 cfs in the main channel were mostly confined to the active channel width. The middle side channel, which was relatively shallow and only marginally incised, was reduced to a series of disconnected pools and rifles at a target flow release of 110 cfs and was mostly dewatered at a target flow release of 70 cfs. Continuous surface flow in the river right-most side channel persisted down to 30 cfs, at which the upstream point of connection to the main channel dewatered and presented a barrier to fish movement. However, the downstream end of the river right-most side channel remained connected to the main

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channel down to a target flow release of 5 cfs, resulting in it serving as backwater habitat at these flows.

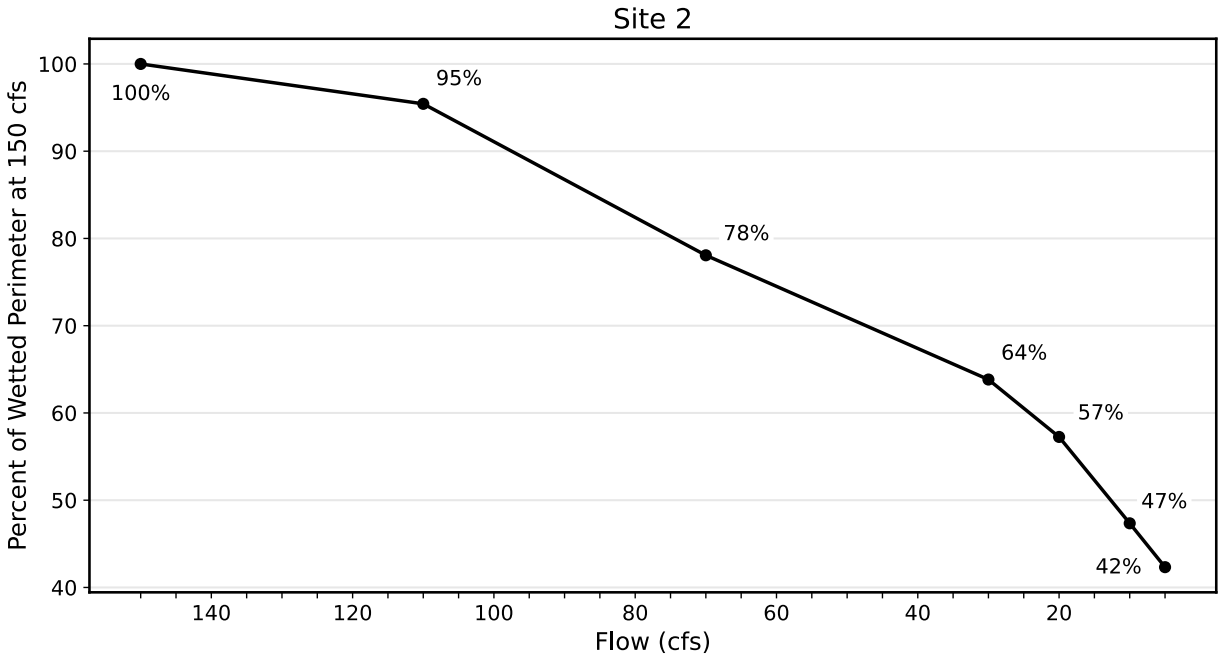
Changes in wetted perimeter between target flows at Site 2 were greatest from 30 to 5 cfs (Figure 4.2-4 and Figure 4.2-5) and most pronounced in the side channels between transect stationing 40 to 80 feet and 85 to 135 feet. Habitat with high-to-moderate potential stranding risk (from 0 to 6 percent gradient) occurred at target flow releases between 110 and 5 cfs (Figure 4.2-3). No fish were observed stranded or entrapped at Site 2 during the 7-day study period. Based on representative conditions observed at Site 2, stranding risk in Reach 3 is generally expected to be low to moderate due to multiple channels with relatively steep banks and complex habitat and flow paths.



cfs = cubic feet per second; ft = feet; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 10 to facilitate readability.

Figure 4.2-4. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 2, July 2025.

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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150 cfs-target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-5. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 2, July 2025.

4.2.3. SITE 3

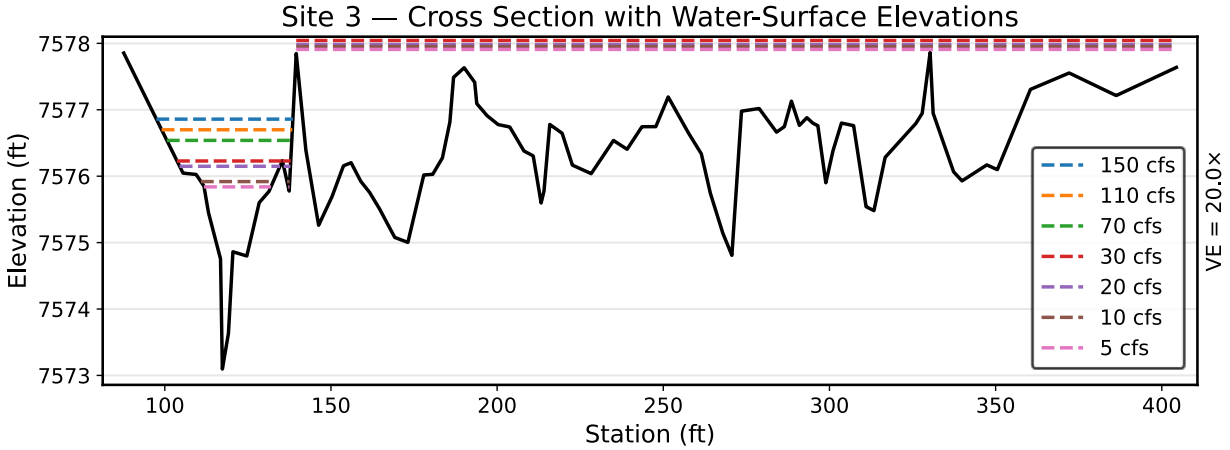
Site 3 was located within Reach 4, which was characterized by a wide valley bottom that supported an extensive complex of beaver dams and ponds intermixed with short, low-gradient stream sections (Figure 2.1-1; Table 4.1-1). The valley bottom in Reach 4 expanded substantially compared with the relatively narrow and confined reaches upstream. The transect at Site 3 was located immediately upstream of a single, large beaver dam that impounded and slowed water across the majority of valley bottom. Stream banks were relatively low gradient, and the channel bed material was composed primarily of fine sediment (80 percent) in ponded areas. Gravel (12 percent) and cobble (8 percent) substrate was confined to areas with more concentrated flow at Site 3. In addition to the beaver dams, stands of dead willow and small and large wood accumulations contributed to habitat complexity within the reach (Appendix B).

Changes in wetted perimeter between target flows were minimal in the beaver pond, which occupied most of the site and the transect. The transect included a relatively small stream channel along the river left bank (between stationing 100 to 145 feet) (Figure 4.2-6). Minor changes in wetted perimeter at the river left channel were observed between target flows, with the most pronounced change occurring at target flow releases from 20 to 10 cfs (Figure 4.2-6 and Figure 4.2-7).

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Overall, stranding potential was low in the beaver pond because the pond remained "full" and had relatively little change in water surface elevation. Dewatered habitat with relatively high stranding risk at Site 3 was limited to areas with low gradient (0 percent to 1 percent) on the left bank of the small channel, which occurred at target flow releases between 20 and 10 cfs (Figure 4.2-3). Downstream of the beaver pond (and transect), an isolated pool formed with a target flow release of 5 cfs. When spill from the upstream beaver pond ceased, the pool became disconnected, creating potential for fish entrapment (Appendix B).

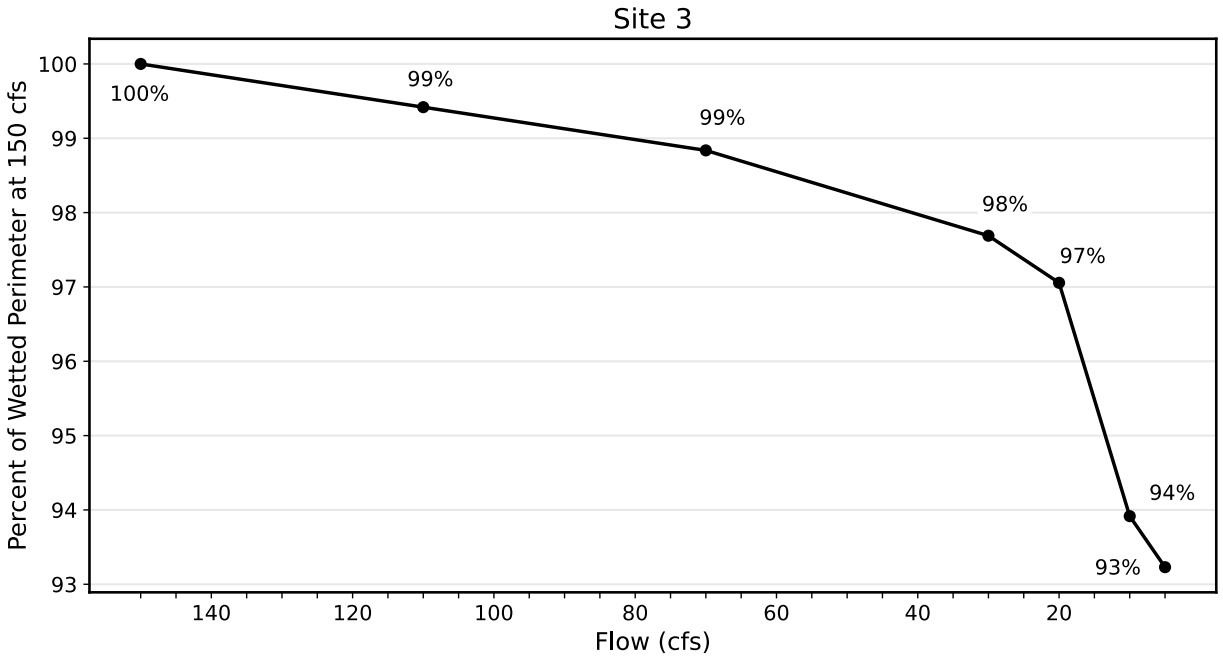
Hundreds of trout of multiple size classes were visually observed at Site 3 during field surveys, but no fish were observed stranded or entrapped during the 7-day study period. Based on representative conditions observed at Site 3, stranding risk in Reach 4 is generally expected to be low to moderate due to beaver ponds and low gradient banks with complex habitat and flow paths.



ft = feet; cfs = cubic feet per second; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 20 to facilitate readability.

Figure 4.2-6. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 3, July 2025.

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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150-cfs target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-7. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 3, July 2025.

4.2.4. SITE 4

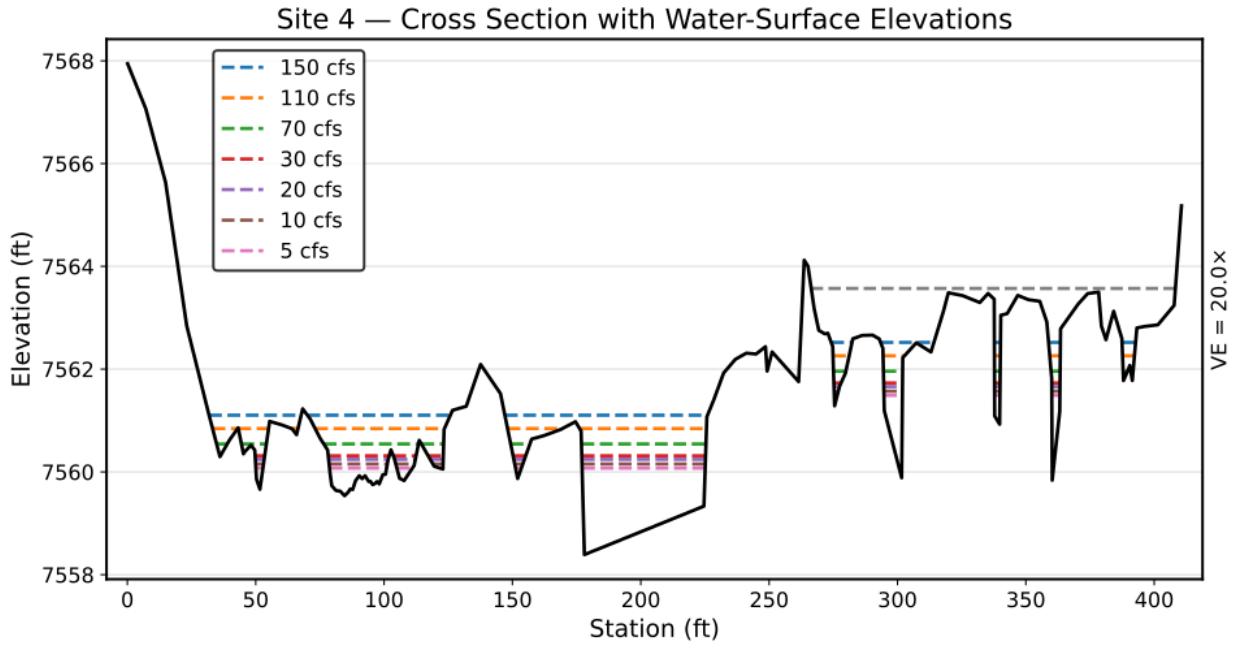
Site 4 was located within Reach 4, approximately 600 feet downstream of Site 3 (Figure 2.1-1; Table 4.1-1). Site 4 was composed of a series of smaller beaver dams, compared with the one large beaver dam at Site 3, each with unique pond configurations within the greater beaver pond complex. The beaver pond complex was bordered by stream channels along river left with a series of run and riffle habitats. Channel bed material was dominated by gravel (54 percent) and cobble (34 percent) substrates, with interspersed patches of fine sediments (12 percent). Beaver dams, willow stands, small and large wood accumulations, and patches of inundated sedges provided structural complexity to aquatic habitats near Site 4 (Appendix B).

Changes in wetted perimeter between target flows at Site 4 were greatest with target flow releases from 10 to 5 cfs and otherwise generally consistent with target flows from 150 to 10 cfs) (Figure 4.2-8 and Figure 4.2-9). Areas of moderate-to-high stranding risk (bank slopes less than 6 percent) were observed at Site 4 for target flow releases from 150 to 30 cfs, and 20 to 5 cfs, with the greatest stranding risk observed for flow releases of 150 to 70 cfs, and 20 to 10 cfs (Figure 4.2-3).

One day before initiating the second phase of hydrology monitoring (see Table 4.2-1), the flow release from Lundy Dam was increased to the maximum target flow release of 150 cfs and held at this level through most of the day and overnight. During this initial flow

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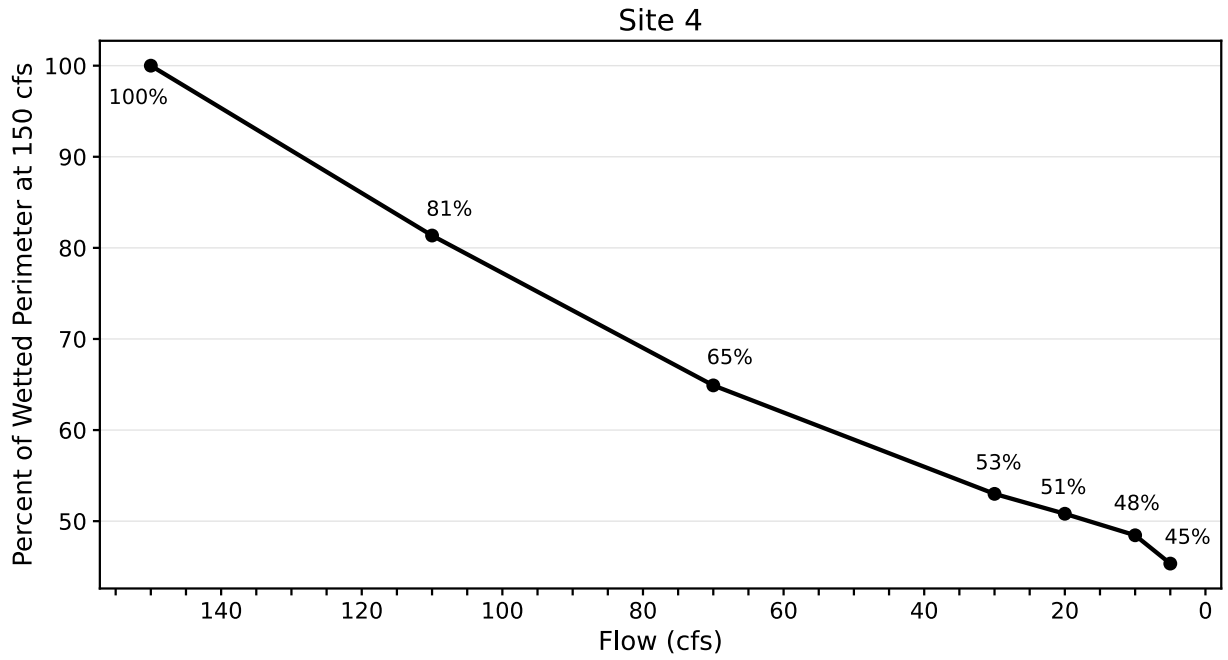
release period, a series of beaver dams near Site 4 failed, resulting in a rapid decrease in water surface elevation over a relatively large area that was previously inundated. In total, approximately 158 trout were observed entrapped in small pools associated with the beaver dams (Appendix B). When and where possible, rescue attempts were made to return trout to perennial habitats. Based on representative conditions observed at Site 4, stranding risk is expected to be low to moderate due to extensive beaver ponds with low gradient banks with complex habitat and flow paths.



cfs = cubic feet per second; ft = feet; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 20 to facilitate readability. The gray dashed line between Stations 260 and 400 is the estimated water surface elevation of the beaver pond at Site 4 before the series of beaver dams failed. The water surface elevation of target flows is imputed between Stations 260 and 400 feet.

Figure 4.2-8. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 4, July 2025.

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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150-cfs target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-9. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 4, July 2025.

4.2.5. SITE 5

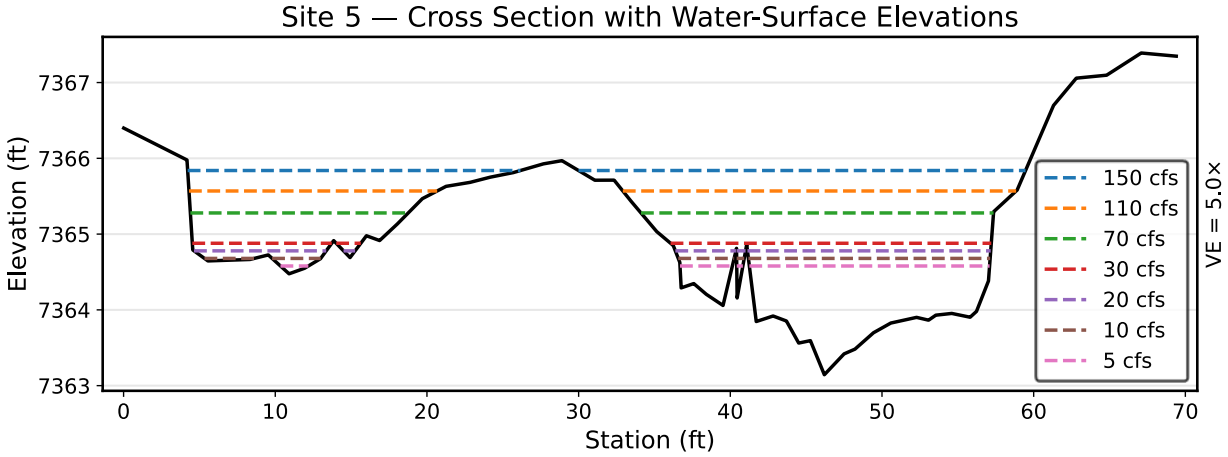
Site 5 was located within Reach 5, approximately 3,600 feet downstream of the beaver pond complex (Figure 2.1-1). This site was characterized by a steep channel gradient, a narrow valley bottom, and two channels (one on each side of the valley) that were confined by steep valley walls (Table 4.1-1). The main channel occurred along the river right valley wall, and a side channel along the river left valley wall supported continuous surface flow at the higher target flows (greater than or equal to 70 cfs). The channel bed material at Site 5 was dominated by gravel (25 percent) and cobble (23 percent) with interspersed boulders (15 percent), and with patches fine sediment (37 percent). Site 5 had abundant riparian and instream vegetation in addition to large and small wood accumulations that contributed to aquatic habitat complexity (Appendix B).

Changes in wetted perimeter between target flows at Site 5 were relatively high with target flow releases from 20 to 5 cfs and to a lesser extent from 150 to 110 cfs and from 30 to 20 cfs (Figure 4.2-10 and Figure 4.2-11). The left bank side channel accounted for the greatest risk of stranding and entrapment at Site 5. Surface flow in the side channel became intermittent when flows dropped to 70 cfs, and below 70 cfs, most surface flows in the side channel dried, except for an isolated pool that was located along the Site 5 transect (Appendix B). Habitat with moderate-to-high (from 0 to 6 percent gradient) potential stranding risk occurred with target flow releases between 150 to 110 cfs and 20 to 5 cfs (Figure 4.2-3). Stranding risk at Site 5 was relatively low with target flow releases

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between 110 and 20 cfs, as dewatered banks had greater than 6 percent gradients (Figure 4.2-3).

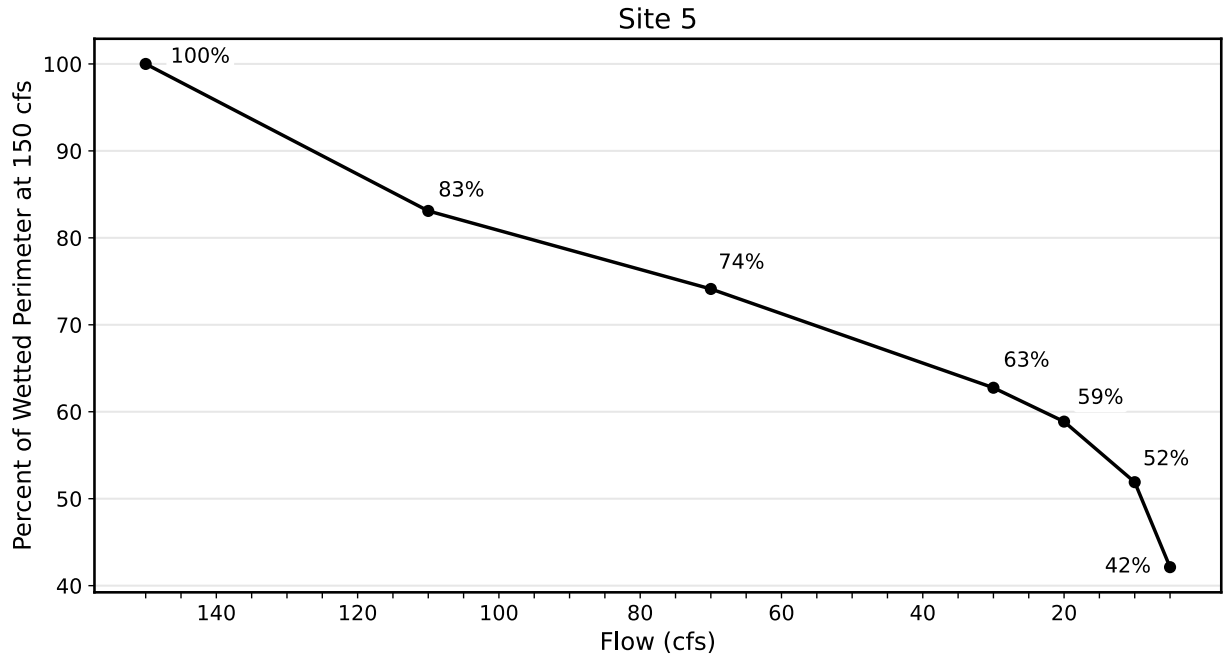
No fish were observed to be stranded or entrapped in Site 5 during the 7-day study period. Based on representative conditions observed at Site 5, stranding risk in Reach 5 is generally expected to be low due to frequent high-flow side channels with relatively steep banks and complex habitat along margins.



cfs = cubic feet per second; ft = feet; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 5 to facilitate readability.

Figure 4.2-10. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 5, July 2025.

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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150-cfs target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-11. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 5, July 2025.

4.2.6. SITE 6

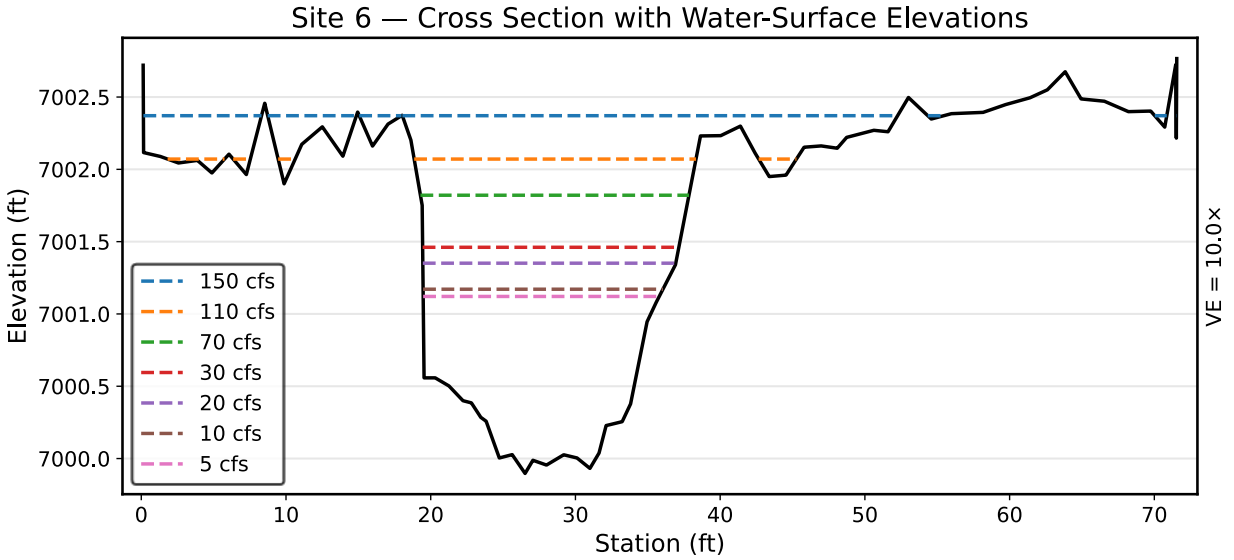
Site 6 was located in Reach 6 approximately 550 feet upstream of the MCRD. Reach 6 was characterized by a relatively narrow valley bottom, a steep channel gradient, and a single-threaded channel with steeply sloped banks (Figure 2.1-1; Table 4.1-1). Channel bed material was dominated by fine sediment (38 percent) and gravel (38 percent) with interspersed patches of cobble (24 percent). The riparian zone and channel margins were heavily structured by instream and overhanging vegetation and large and small wood (Appendix B). At high target flow releases of 150 to 110 cfs, this structure created turbulent hydraulics.

Changes in wetted perimeter at Site 6 were greatest with target flow releases between 150 to 110 cfs and, to a lesser extent, between 110 to 70 cfs (Figure 4.2-12 and Figure 4.2-13). Stranding risk along the transect at Site 6 was greatest with target flow releases between 150 to 70 cfs as overbank flows receded and margin habitats with shallow bank slopes and complex structure were dewatered (Figure 4.2-3; Figure 4.2-12 and Figure 4.2-13). Dewatered habitat exposed by target flow releases between 70 to 5 cfs was greater than 6 percent gradient, indicating relatively low stranding risk (Figure 4.2-3).

No fish were observed stranded or entrapped at Site 6 during the 7-day study period. Based on representative conditions observed at Site 6, stranding risk in Reach 6 is

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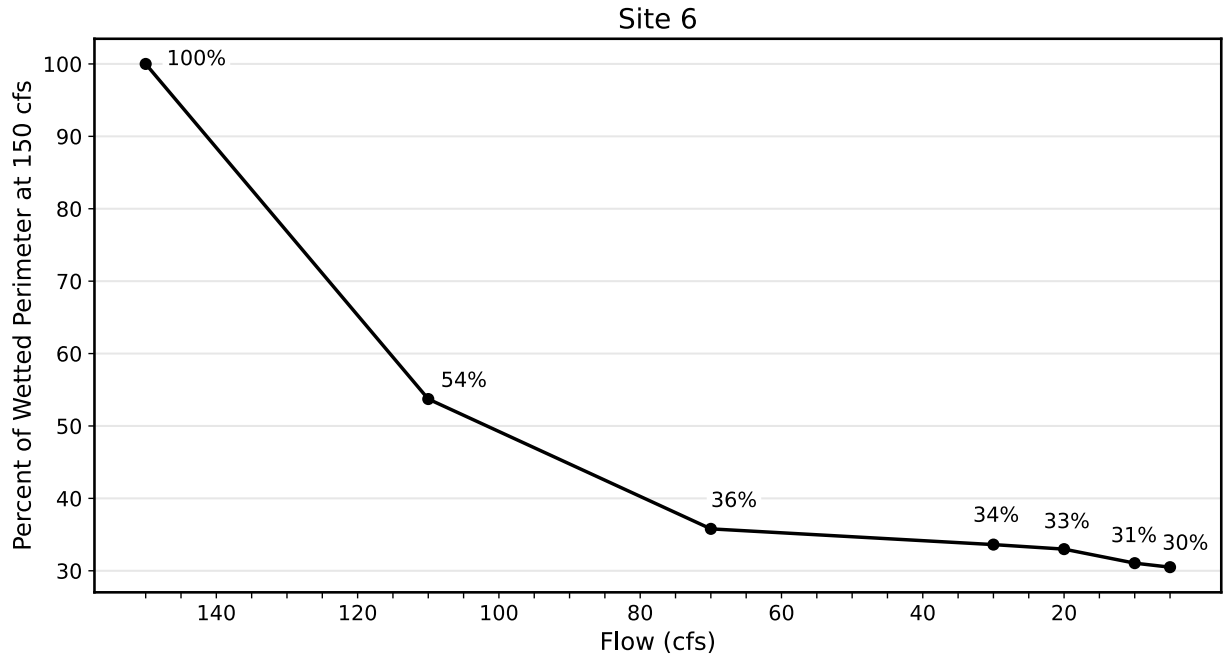
generally expected to be low to moderate due to potential for overbank flows with greater risk at higher flows when overbank flows decrease and margin habitats dewater.



cfs = cubic feet per second; ft = feet; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 10 to facilitate readability.

Figure 4.2-12. Channel Cross-Section Topography (river left to river right bank) and Water Surface Elevation at Different Flow Stages for Site 6, July 2025.

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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150-cfs target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-13. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 6, July 2025.

4.2.7. SITE 7

Site 7 was located about 2.3 miles downstream from Highway 395 and was the only site located outside the study area (Figure 2.1-1). Site 7, located in Reach 9, was characterized by a moderately wide valley bottom, relatively low channel gradient, and multi-threaded channel planform (Table 4.1-1). The valley bottom was confined by steep walls that transition from a deep gorge to a less-confined reach as Mill Creek approaches Mono Lake. Channel bed material was dominated by fine sediment (39 percent), gravel (32 percent), and cobble (29 percent). The riparian zone and the channel margins were heavily structured by instream and overhanging vegetation and large and small wood (Appendix B). At high target flow releases (150 to 110 cfs), this instream structure creates turbulent hydraulics.

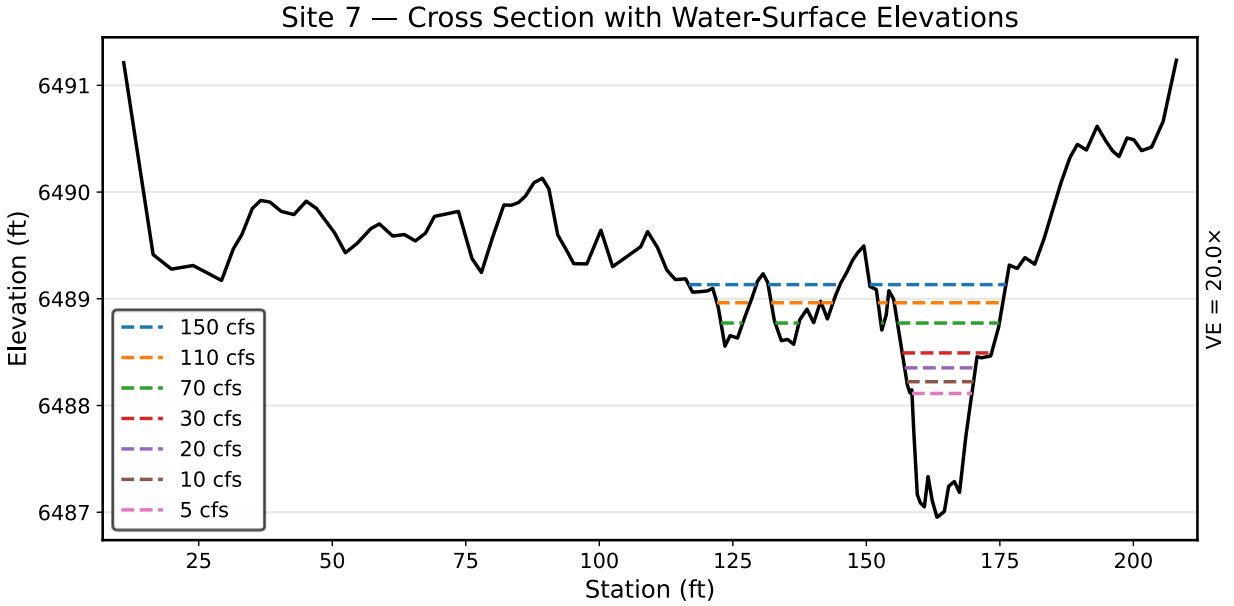
Changes in wetted perimeter at Site 7 were generally consistent across target flow releases from 150 to 20 cfs (Figure 4.2-14 and Figure 4.2-15). At target flow releases between 150 and 70 cfs, overbank flow created shallow, low-velocity habitat along stream margins while inundating side channels and many off-channel topographic depressions. At target flow releases between 70 and 20 cfs, these inundated marginal habitats were either dewatered or became intermittent with isolated pools (Figure 4.2-14 and Figure 4.2-15). Habitat with relatively high stranding risk (from 0 to 3 percent gradient) occurred at target flow releases from 150 to 110 cfs and 70 to 20 cfs (Figure 4.2-3). At target flow releases from 20 to 5 cfs, flows were generally contained within the active channel,

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relatively little habitat was dewatered, and the habitat that was dewatered was generally greater than 6 percent gradient, indicating relatively low stranding risk (Figure 4.2-3).

Upstream and downstream of the transect, the channel split from a single thread into a multi-threaded channel network that meandered over the wide floodplain at flows above 110 cfs. At lower flows, some of these high flow channels became disconnected and intermittent, thus creating entrapment risk, or else dried completely, which created stranding risk (Appendix B)

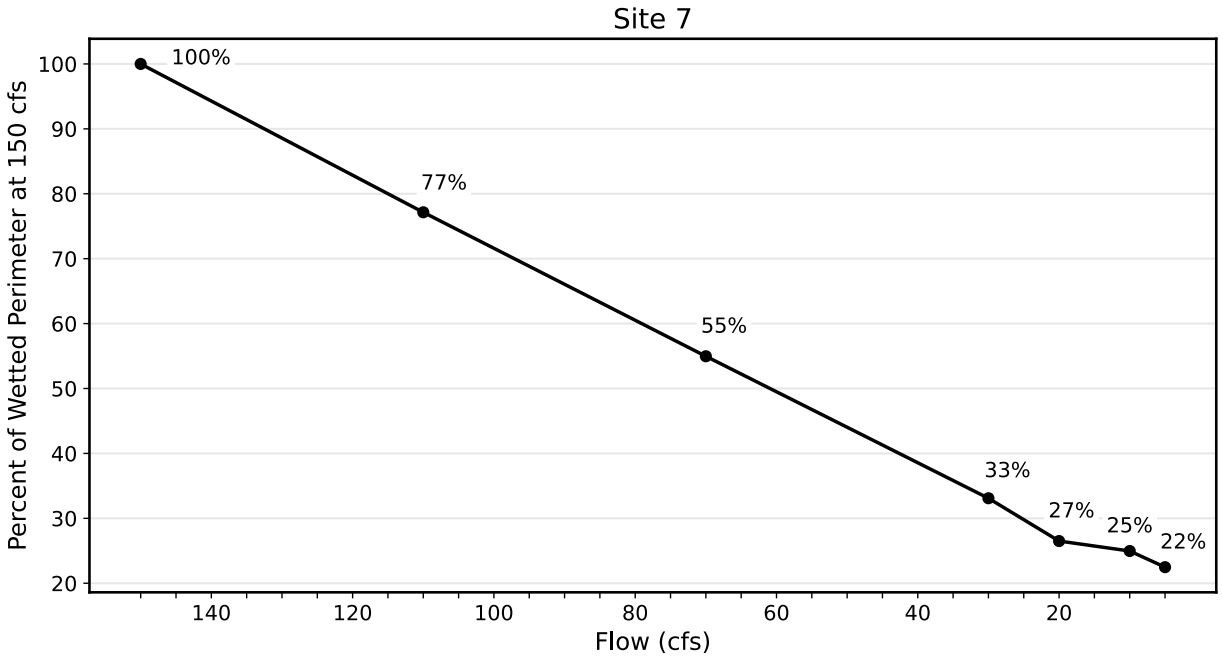
No fish were observed stranded or entrapped in Site 7 during the 7-day study period. Based on representative conditions observed at Site 7, stranding risk in Reach 9 is generally expected to be low to moderate, though the prevalence of high flow side channels present the greatest stranding risk when these side channels dewater.



cfs = cubic feet per second; ft = feet; VE= vertical exaggeration
Note: The vertical axis is exaggerated by a factor of 20 to facilitate readability.

Figure 4.2-14. Channel Cross-Section Topography (river left to river right bank) in Relation to Water Surface Elevation at Different Flow Stages for Site 7, July 2025.

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% = percent; cfs = cubic feet per second
Note: Wetted perimeter at the 150-cfs target flow release is assumed to be 100 percent because this is the maximum flow controlled by Project operations and the highest flow evaluated during the study.

Figure 4.2-15. Percent of Wetted Perimeter Inundated at Different Flow Stages for Site 7, July 2025

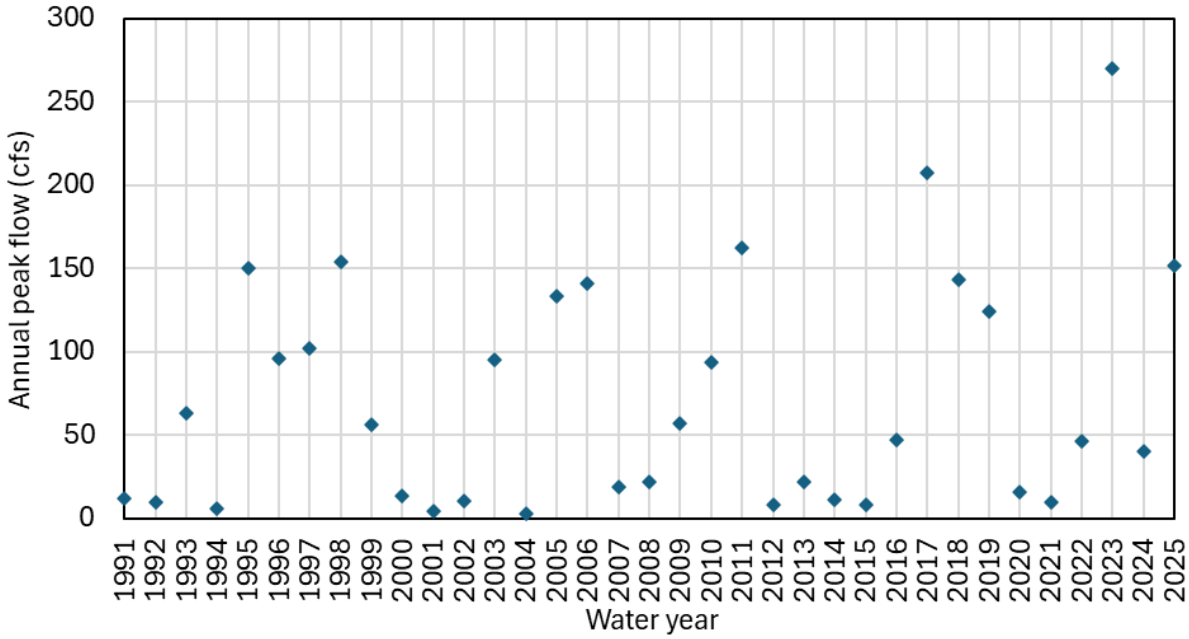
4.3. HYDROLOGY ANALYSIS

4.3.1. HYDROLOGY SUMMARY

Streamflow data for Mill Creek downstream of Lundy Dam are available for water years 1991–2025 from USGS Gage No. 10287069 (SCE Gage No. 355). This station is located approximately 1,200 feet downstream of Lundy Dam and is operated by SCE. Flows are regulated by Lundy Lake storage, water rights allocations, and hydroelectric operations. Prior to 2015, there was no minimum instream flow requirement and flow often ceased at the USGS gage site, with approximately 30 percent of the streamflow record between 1991 and 2015 indicating no flow. Annual peak flows over the period of record ranged from 3–270 cfs (Figure 4.3-1). The peak flow recorded for water year 2025 was 150 cfs, which occurred during the AQ-2 Stranding Study and corresponds with an apparent return period[2] of 9 years.

[2] Return period is the calculated probability in years that a defined flow magnitude (150 cfs) would occur based on peak flows in the period of record (1991–2025) for a specific location.

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cfs = cubic feet per second; SCE = Southern California Edison Company; USGS = U.S. Geological Survey

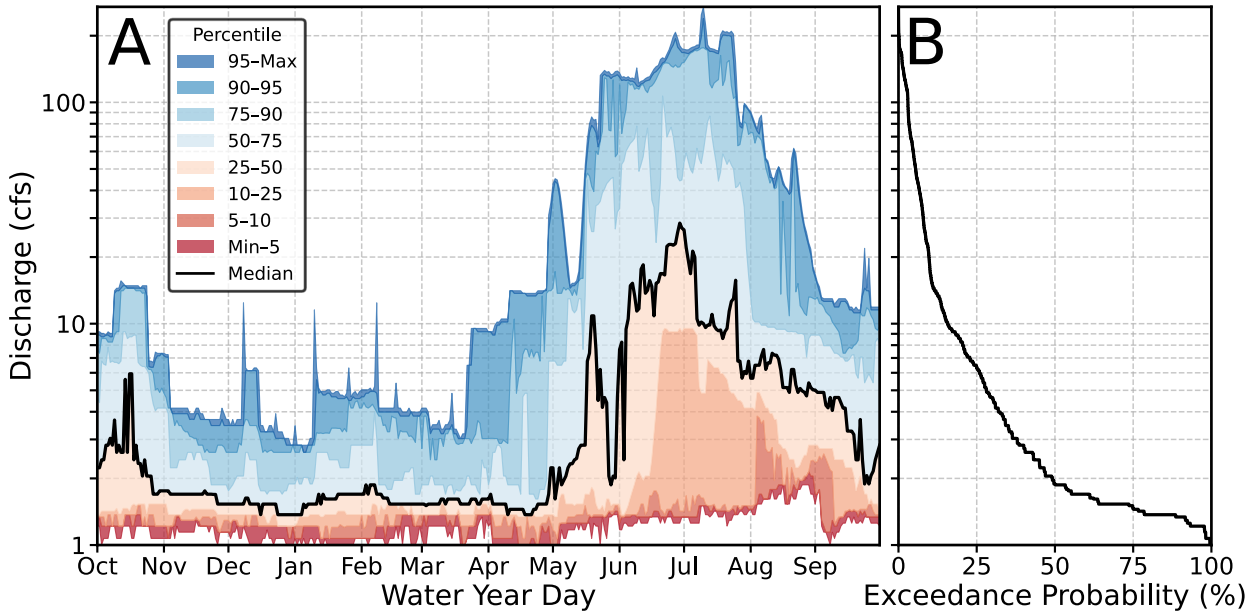
Figure 4.3-1. Peak Flows Recorded at USGS Gage No. 10287069 (SCE Gage No. 355) From Water Years 1991–2025.

Due to changes in minimum flow requirements, streamflow over the last decade (water years 2016–2025) is more reflective of the current hydrologic regime and was therefore analyzed in greater detail to provide context for the flows assessed during this stranding study.

Flows for water years 2016–2025 exhibited a pronounced seasonal signal, with high-magnitude flows driven primarily by snowmelt starting in May and peaking in June and July, and occasional lower-magnitude storm peaks throughout the fall, winter, and early spring seasons (Figure 4.3-2A). Instantaneous flows ranged from 1 to 270 cfs,[3] with a median of 1.9 cfs (Figure 4.3-2A). During the last 10 water years, 50 percent of flows were less than 2 cfs (Figure 4.3-2B), and all target flows were exceeded less than 30 percent of the time (Table 4.3-1).

[3] A small portion of the instantaneous streamflow record between 2016–2025 (0.44%, 1,560 of 353,107) indicates flows less than 1 cfs. These values likely indicate short periods of equipment maintenance or malfunction. The streamflow values were rounded to 1 cfs to simplify statistical analysis.

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% = percent; cfs = cubic feet per second; SCE = Southern California Edison Company; USGS = U.S. Geological Survey

Notes: (A) Hydrograph of instantaneous discharge with shaded daily percentile intervals, and (B) exceedance probability curve of instantaneous discharge. All discharge values less than 1 cfs were rounded to 1 cfs for display on logarithmic axes.

Figure 4.3-2. Water Year 2016–2025 Summary of Mill Creek Downstream of Lundy Dam, USGS Gage No. 10287069 (SCE Gage No. 355).

Table 4.3-1. Exceedance Probability for Target Flows based on Water Years 2016–2025

Target Flow (cfs)	Exceedance Probability (%)
150	1
110	3
70	4
30	8
20	10
10	16
5	28

cfs = cubic feet per second

4.3.2. Stage and Discharge Analysis

The range of instream flows released from Lundy Dam over the 7-day study period and flow conditions at study sites were characterized using discharge data from USGS Gage No. 10287069 and continuous stage records at each site and supplemented by stream discharge data recorded near the upstream and downstream ends of the 3.3-mile study area. A stage-discharge relationship was established to characterize attenuation and accretion or loss through the reach. Travel time and flow attenuation were assessed by

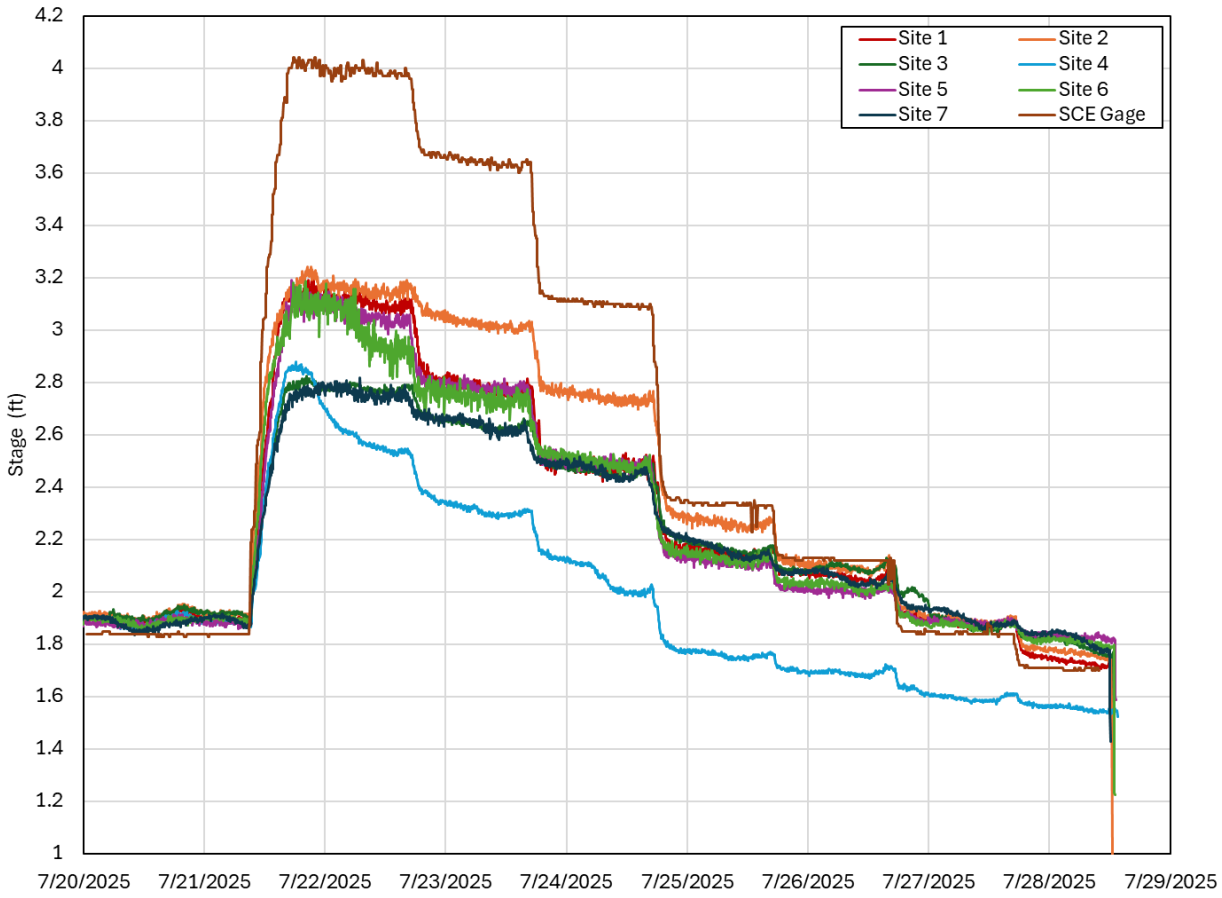
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comparing the magnitude and timing of stage hydrographs from stage recorder data collected at each site.

Travel times between stage recorders at Site 1 through Site 7 were estimated using a cross-correlation function on the rising limb of the hydrograph. Time series of paired stage records were offset in fixed 5-minute increments with Pearson correlation coefficients computed for each lag. The lag corresponding to the maximum correlation coefficient (Allen et al., 2018) was identified as the travel time between sites (Figure 4.3-3). To verify results, hydrographs for each site were manually shifted by the computed lag times to ensure alignment of the hydrographs (Figure 4.3-3). Travel times from Site 1 to each downstream site ranged from 10 to 225 minutes and are summarized in Table 4.3-2. Travel times were strongly proportional to distance.

Time-synchronized stage records were used to evaluate flow attenuation through the study reach. The peak stage of the initial target flow release of 150 cfs was attenuated by up to 0.4 foot within the beaver pond complex (Site 3 and Site 4) and at Site 7. Overall, flow attenuation increased downstream and was most pronounced at Site 3, Site 4, and Site 7, as indicated by reduced peak stage and more gradual declines in the receding limbs of the hydrographs (Figure 4.3-3). Attenuation at Site 3 and Site 4 was primarily due to water storage in the beaver pond complex, whereas attenuation at Site 7 was primarily due to the long travel distance. Although Site 5 and Site 6 are downstream of the beaver pond complex, they exhibited less peak flow attenuation, likely reflecting an increase in channel confinement and average slope, which accelerates flow and reduces storage effects.

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ft = feet; SCE Gage = USGS Gage No. 10287069 at Mill Creek below Lundy Dam
Note: Stage records were shifted by the lag times computed using the cross-correlation function.

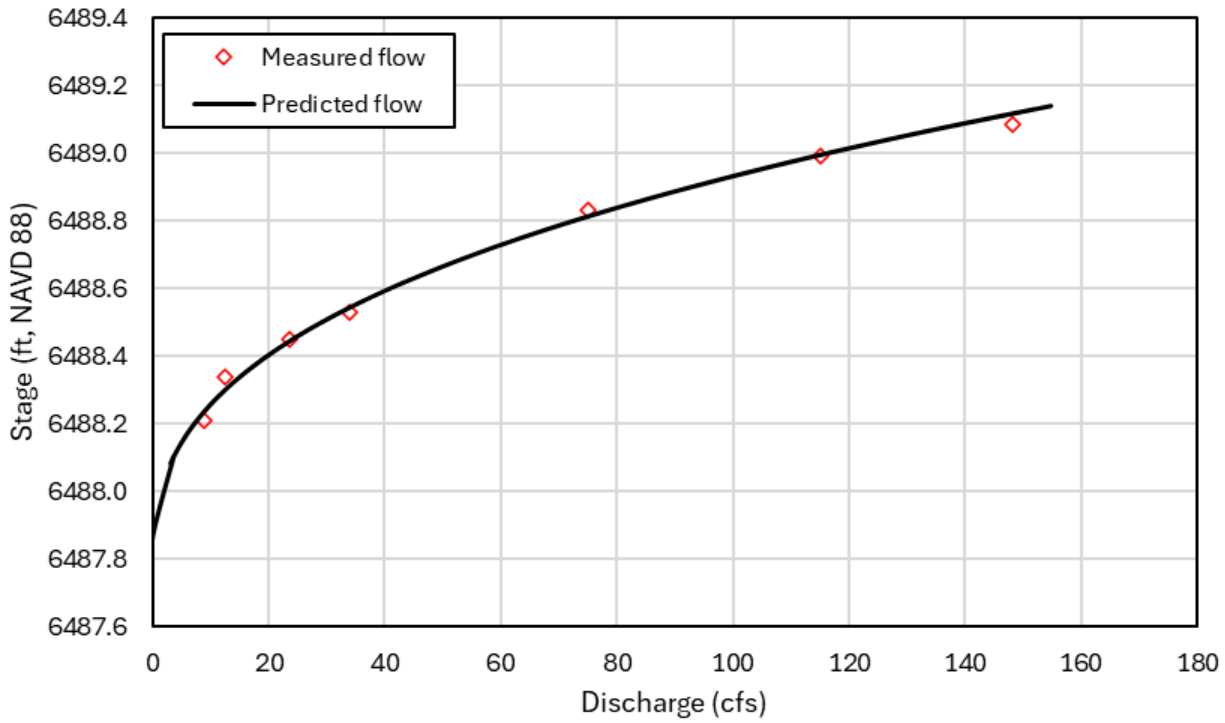
Figure 4.3-3. Synchronized Stage Record for Site 1 through Site 7, July 2025.

Table 4.3-2. Estimated Lag Times Between Site 1 and Downstream Sites, July 2025

Sites	Distance Between Sites (feet)	Estimated Lag Time (minutes)
Site 1 to Site 2	563	10
Site 1 to Site 3	784	20
Site 1 to Site 4	987	30
Site 1 to Site 5	2,586	85
Site 1 to Site 6	5,068	130
Site 1 to Site 7	10,327	225

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A stage-discharge rating curve was developed for Site 7 to evaluate attenuation and accretion through the study reach and downstream to Site 7 in lower Mill Creek. The curve was constructed from seven discharge measurements paired with concurrent stage readings and fit using the standard USGS power-law relation between stage and discharge (Rantz, 1982a,b; Turnipseed and Saur, 2010) (Figure 4.3-4).



cfs = cubic feet per second; ft = feet; NAVD 88 = North American Vertical Datum of 1988
Note: Red diamonds show the calibration points (discharge measurements), and the black line shows the predicted discharge from the rating equation.

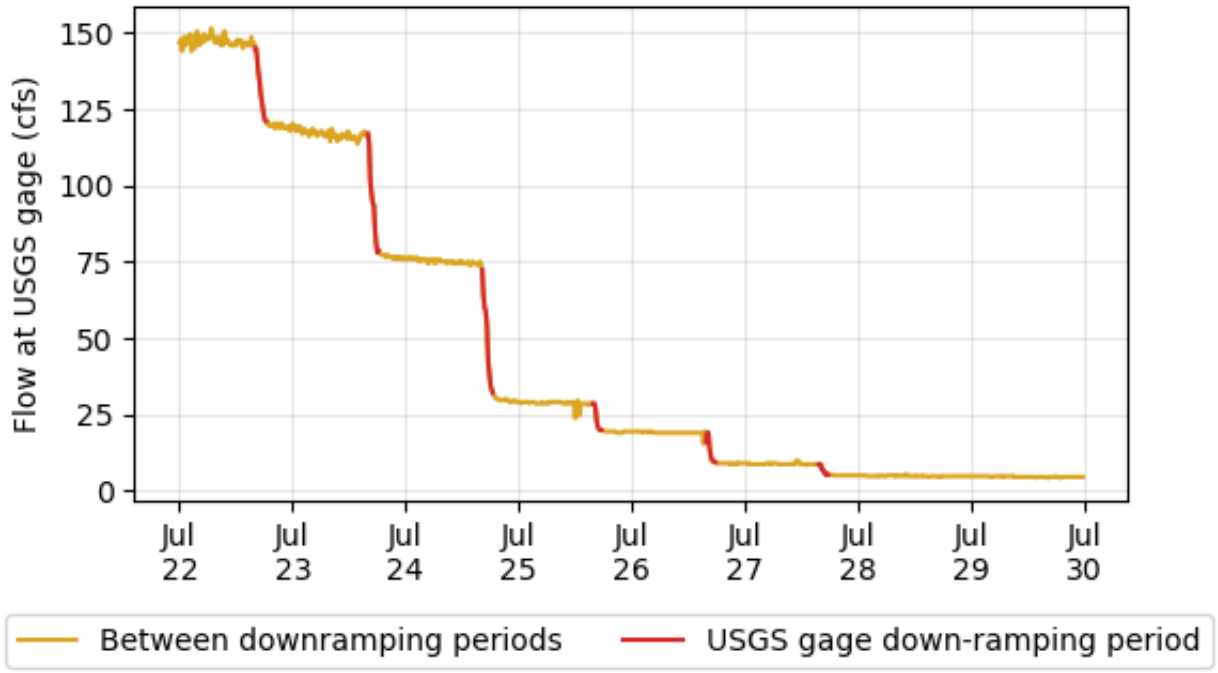
Figure 4.3-4. Stage-Discharge Rating Curve for Site 7, July 2025.

Measured discharge at Site 7 was compared with observed discharge at the USGS gage to evaluate flow accretion through the study reach. Observed discharge was calculated as the average of 15-minute discharge data collected at the USGS gage between 08:00 and 16:00 each day. Over the 7-day study period, accretion through the reach averaged 3.5 cfs and ranged from 1 to 8 cfs.

4.3.3. Down-Ramping Analysis

Figure 4.3-5 shows the down-ramping periods detected at the USGS gage. Individual down-ramping periods are shown in Appendix A and summarized in Table 4.3-3. Estimated down-ramping period durations ranged from 1.75 to 2.25 hours based on 15-minute flow data, i.e., all were within one 15-minute measurement interval of 2 hours.

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cfs = cubic feet per second; USGS = U.S. Geological Survey

Figure 4.3-5. Water Surface Elevation and Down-Ramping Period at Site 1 and Down-Ramping Period at the USGS Gage.

Table 4.3-3. Summary of Down-Ramping Periods and Rates of Change at USGS Gage No. 10287069 (SCE Gage No. 355).

Down-Ramping Target Flow Range (cfs)	Start Date and Time	Stop Date and Time	Duration (hours)	Flow at Start (cfs)[1]	Flow at Stop (cfs)[1]	Rate of change (cfs/hr)
150–110	7/22/2025 16:00	7/22/2025 18:15	2.25	145.0	121.1	-10.6
110–70	7/23/2025 16:00	7/23/2025 18:15	2.25	116.9	78.7	-19.5
70–30	7/24/2025 16:15	7/24/2025 18:30	2.25	72.3	32.0	-17.9
30–20	7/25/2025 15:45	7/25/2025 17:30	1.75	28.5	19.7	-5.0
20–10	7/26/2025 15:45	7/26/2025 17:45	2.0	16.0	9.2	-3.4
10–5	7/27/2025 15:45	7/27/2025 17:30	1.75	8.6	5.1	-1.9

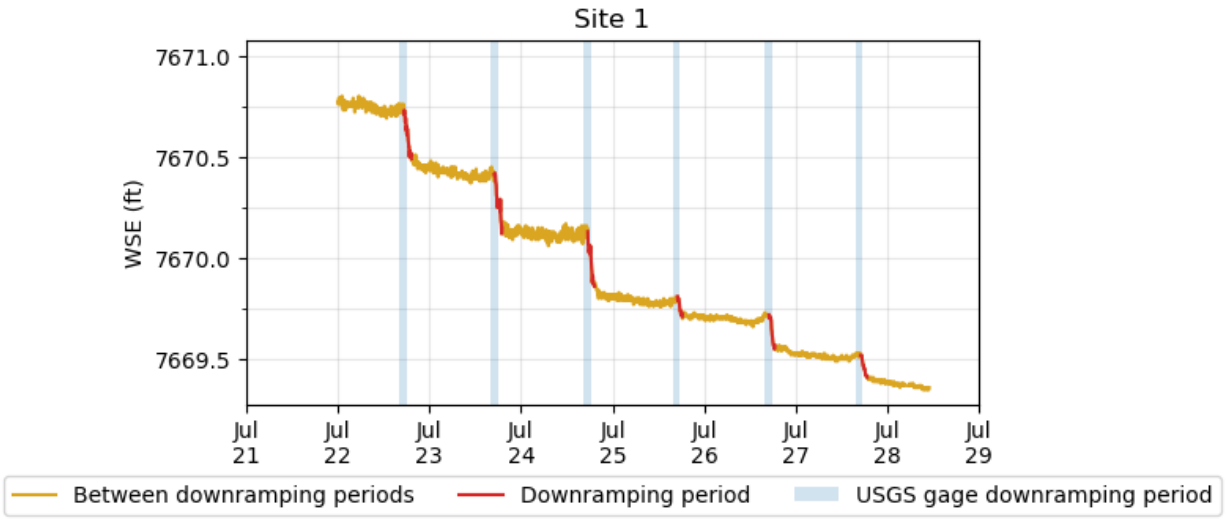
cfs = cubic feet per second; hr = hour; SCE = Southern California Edison Company; USGS = U.S. Geological Survey

Note:

[1] From raw USGS gage data at the corresponding date and time.

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Figure 4.3-6 shows an example of down-ramping period detection for Site 1. Water surface elevation generally decreased at the highest rate as flows dropped from 70 to 30 cfs and at the lowest rate as flows dropped from 10 to 5 cfs (Table 4.3-4). The highest magnitude rate of change was -0.19 foot per hour at Site 2 when flows dropped from 70 to 30 cfs. The rate of water surface elevation decrease during down-ramping periods was higher in the main channel than in the beaver ponds (Site 3b and Site 4b) (Table 4.3-4). Between down-ramping periods at all sites, the rate of water surface elevation decrease was less than or equal to 0.01 foot per hour.



ft = feet; USGS = U.S. Geological Survey; WSE = water surface elevation

Figure 4.3-6. Water Surface Elevation and Down-Ramping Period at Site 1 and Down-Ramping Period at the USGS Gage.

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Table 4.3-4. Estimated Rates of Change in Water Surface Elevation by Site During Down-Ramping Periods

Down-Ramping Target Flow Range (cfs)	Site 1 (ft/hr)	Site 2 (ft/hr)	Site 3a (ft/hr)	Site 3b (ft/hr)	Site 4a (ft/hr)	Site 4b (ft/hr)	Site 5 (ft/hr)	Site 6 (ft/hr)	Site 7 (ft/hr)
150–110	-0.12	-0.04	-0.06	-0.02	-0.07	<-0.01	-0.10	-0.05	-0.05
110–70	-0.13	-0.11	-0.08	-0.03	-0.08	-0.01	-0.11	-0.06	-0.06
70–30	-0.14	-0.19	-0.11	-0.06	-0.08	<-0.01	-0.14	-0.14	-0.09
30–20	-0.08	-0.11	-0.08	-0.05	-0.04	<-0.01	-0.06	-0.07	-0.04
20–10	-0.12	-0.15	-0.09	-0.06	-0.06	<-0.01	-0.05	-0.08	-0.04
10–5	-0.07	-0.07	-0.04	-0.03	-0.02	-0.01	-0.02	-0.01	-0.02

cfs = cubic feet per second; ft/hr = foot per hour

Note: Site 3 and Site 4 each had two stage recorders installed to monitor different areas along the site transect due to varying hydraulic conditions. The stage recorders at Site 3a and Site 4a were both in flowing stream channels and the recorders at Site 3b and Site 4b were both in beaver ponds.

The calculated rate of wetted perimeter dewatering supplements the analysis of stranding risk based on slope (see Figure 4.2-3) and further characterizes the response of wetted perimeter during down-ramping events. The rate of wetted perimeter dewatering during each down-ramping period was calculated by dividing the change in wetted perimeter between target flows (Section 4.2) by the duration of the down-ramping period (Table 4.3-5).

Table 4.3-5. Estimated rates of wetted perimeter dewatering by study site during down-ramping periods

Down-ramping Target Flow Range (cfs)	Site 1 Rate (ft/hr)	Site 2 Rate (ft/hr)	Site 3 Rate (ft/hr)[1]	Site 4 Rate (ft/hr)[1]	Site 5 Rate (ft/hr)	Site 6 Rate (ft/hr)	Site 7 Rate (ft/hr)
150–110	-0.23	-1.88	-0.91	-21.26	-5.38	-7.05	-8.09
110–70	-2.61	-8.94	-0.79	-18.80	-2.50	-2.14	-5.89
70–30	-2.74	-7.33	-1.80	-9.89	-3.16	-0.25	-5.80
30–20	-0.76	-4.52	-1.49	-3.29	-1.44	-0.09	-2.00
20–10	-1.40	-8.16	-6.32	-4.27	-1.94	-1.42	-0.36
10–5	-0.23	-2.96	-1.35	-3.12	-3.11	-0.01	-0.66

cfs = cubic feet per second; ft/hr = foot per hour

[1] Where two loggers were installed along one site transect, the duration of the ramping period detected at the main channel logger (i.e., 3a or 4b) was used to calculate dewatering rates.

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5.0 DISCUSSION OF STRANDING RISK

The results of this study demonstrate how decreasing flow releases over the range of flows that can be managed at Lundy Dam (less than or equal to 150 cfs) translate to changes in water surface elevation through the study area and how these changes relate to the potential risk of fish stranding and entrapment. Overall, the results were highly variable among sites with no consistent pattern in the risk of stranding and entrapment at the target flows evaluated; no specific flow range stands out as having especially high potential risk of fish stranding and entrapment (Figure 4.2-3).

Channel conditions in Reach 4 (Sites 3 and 4) were unique compared with other reaches in the study area and included an extensive complex of beaver ponds and dams in addition to low-gradient habitats with complex structure. A prominent recessional moraine at the downstream end of Reach 4 historically caused sediment to deposit upstream, filling the valley and creating the uniquely wide and low gradient conditions in Reach 4. This underlying condition allows for the creation of beaver dams and wetland ponds, and for streamflow to spread across the broad valley bottom to produce habitats like vegetated benches and areas of slower water that attract high densities of fish. The topographic complexity (e.g., depressions, small ponds, vegetated benches, beaver raceways) in Reach 4 has the potential to cause fish stranding and entrapment when flows decrease; however, the presence of beaver dams and ponds buffer water surface elevation changes in response to decreasing flows and therefore limit potential risk of fish stranding and entrapment as illustrated at Site 3 (Figure 4.2-3 and Figure 4.2-6). Relatively high densities of trout including several size classes were observed throughout Reach 4 during the study, indicating that habitat conditions in Reach 4 have been conducive to supporting successful trout reproduction and growth.

Additionally, the study found that in the event of a beaver dam failure (Site 4), local fish stranding and entrapment can be high due to a rapid decrease in flow and extensive habitat dewatering. Most beaver dams in the study area remained intact and functional throughout the study period. The main beaver dam that failed appeared to be older and not maintained compared to other large beaver dams in the beaver pond complex (Reach 4). Because beaver-dam failures are well documented in natural stream systems (Butler and Malanson, 2005; Scamardo et al., 2022) and may be caused by higher magnitude flows or poor maintenance, natural beaver dam failure can be expected to occur in Reach 4 independent of Project operations.

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APPENDIX A
DOWN-RAMPING DETECTION METHODS AND RESULTS FOR USGS GAGE NO. 10287069

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1.0 DOWN-RAMPING DETECTION METHODS

Down-ramping periods were detected using a standard signal processing approach for edge detection, whereby "edges" of ramps are identified by finding inflection points in a smoothed signal (Jain et al. 1995).

At U.S. Geological Survey (USGS) Gage No. 10287069 (Southern California Edison [SCE] Gage No. 355), stage was recorded at 15-minute intervals. First, the stage data were smoothed using a Gaussian filter (following Bozeman et al. 2025) with a 6-hour observation window (i.e., kernel size of twenty-five 15-minute observations) (Jain et al. 1995). The filter kernel size and standard deviation were the minimum values that yielded six distinct ramp periods, i.e., the raw data were smoothed as little as possible to detect the down-ramping periods. Next, periods in the smoothed stage data that met the following criteria were classified as down-ramping periods bounded by two inflection points:

- At or after a local minimum in the second derivative of the smoothed signal (i.e., the concave-down signal at the start of a down-ramp);
- At or before a local maximum in the second derivative of the smoothed signal (i.e., the concave-up signal at the end of a down-ramp); and
- The first derivative of the smoothed signal was less than zero (i.e., the smoothed stage data were declining).

The thresholds for local minima and maxima in the second derivative were one standard deviation below and above, respectively, the mean second derivative for the stage record from July 22 (00:00) through the end of the record. This threshold was selected to capture the lowest-concavity down-ramp signal in the USGS gage data (10–5 cubic feet per second [cfs]).

Down-ramping periods in the study site stage data were identified using the same method with the following modifications.

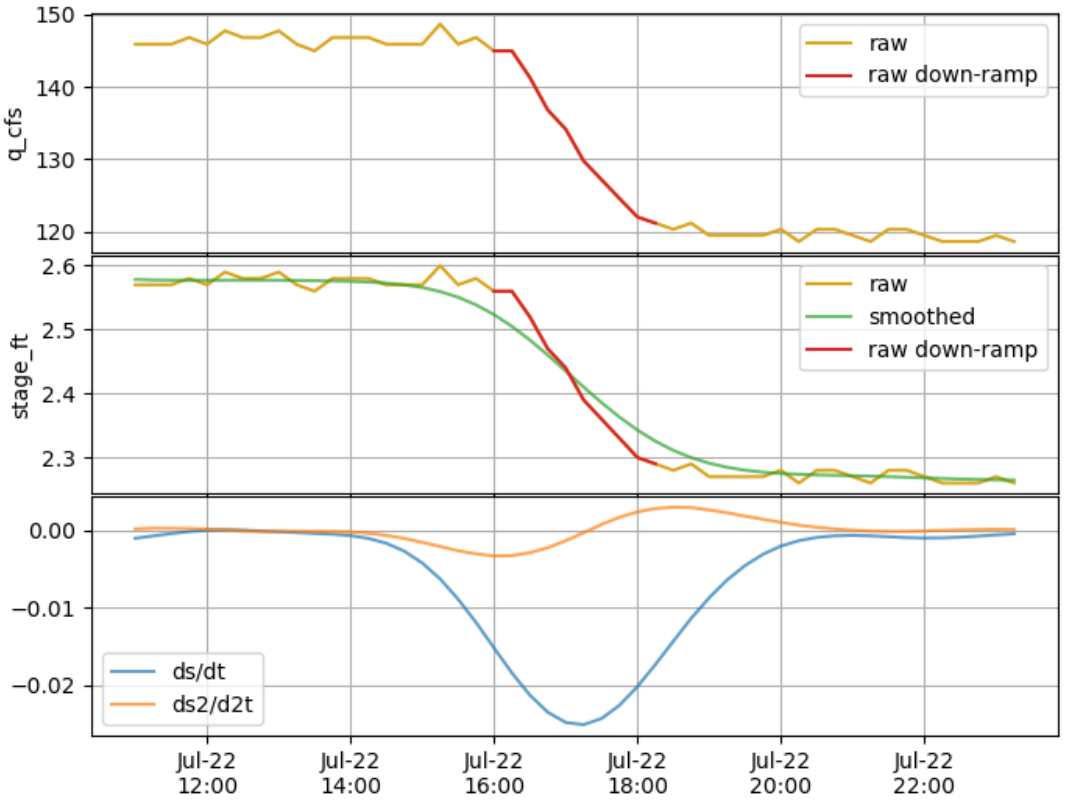
- Prior to smoothing with the Gaussian filter, the 5-minute stage data were averaged to convert to 15-minute stage data.
- In addition to the curvature and slope criteria, the start of a down-ramping period at the study site must be after the start of the corresponding down-ramping period at the USGS gage.
- If more than one potential study site down-ramping period at the site was detected between USGS gage down-ramping periods, only the study site down-ramping period was used.
- If no study site down-ramping period was detected following a USGS gage down-ramping period, the thresholds for local minima and maxima in the second

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derivative were adjusted to 1 standard deviation below and above, respectively, the mean second derivative for the site stage record during the 30 hours after the start of the USGS gage down-ramping period. This adjustment was generally required for lower flows at downstream study sites, where the down-ramping signal had attenuated.

DOWN-RAMPING ANALYSIS RESULTS

Figures A-1 through A-6 present the results of the down-ramping analysis used to detect each of the down-ramping periods between target flows during the study at USGS Gage No. 10287069 (SCE Gage No. 355). A summary of the down-ramping periods at the USGS gage for the study period is provided in Table 4.3-3 of the technical report.

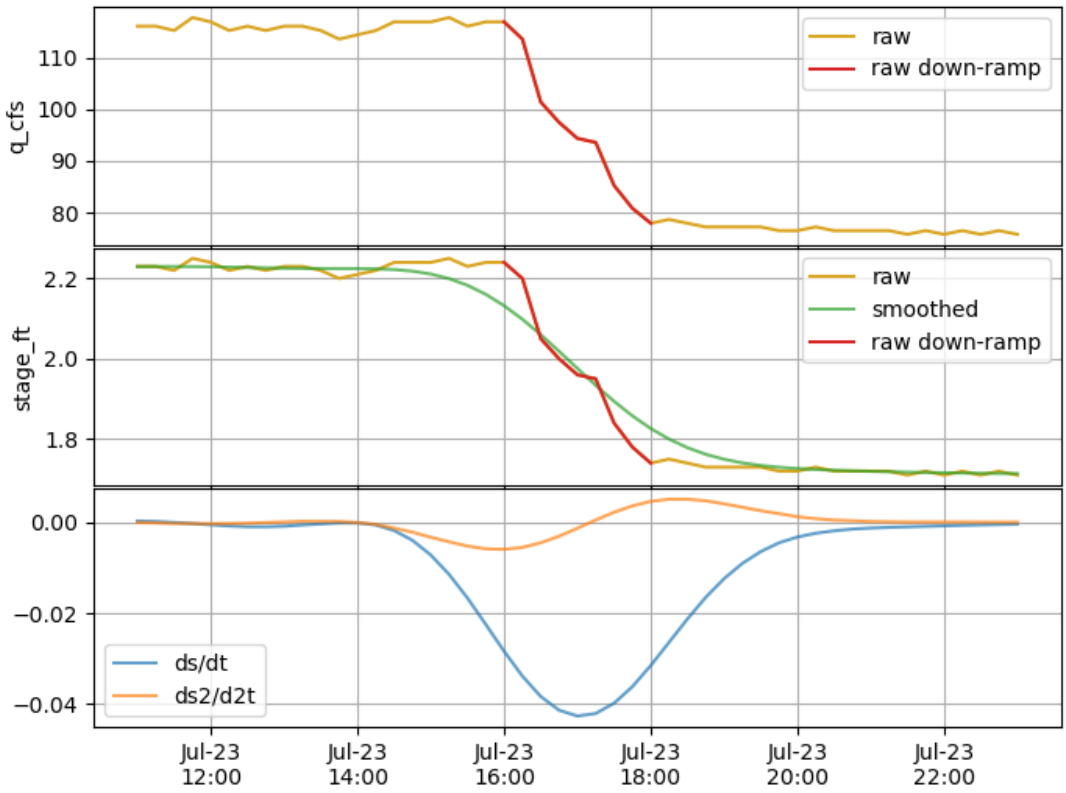


cfs= cubic feet per second; ft = feet

Notes: Top panel: Raw flow data with down-ramping period highlighted in red. Middle panel: Raw and smoothed stage data with raw data during the down-ramping period highlighted in red. Bottom panel: First (ds/dt) and second (ds2/d2t) time derivatives of the smoothed stage data.

Figure A-1. Flow Rate of 150- to 110-cfs Down-Ramping Analysis.

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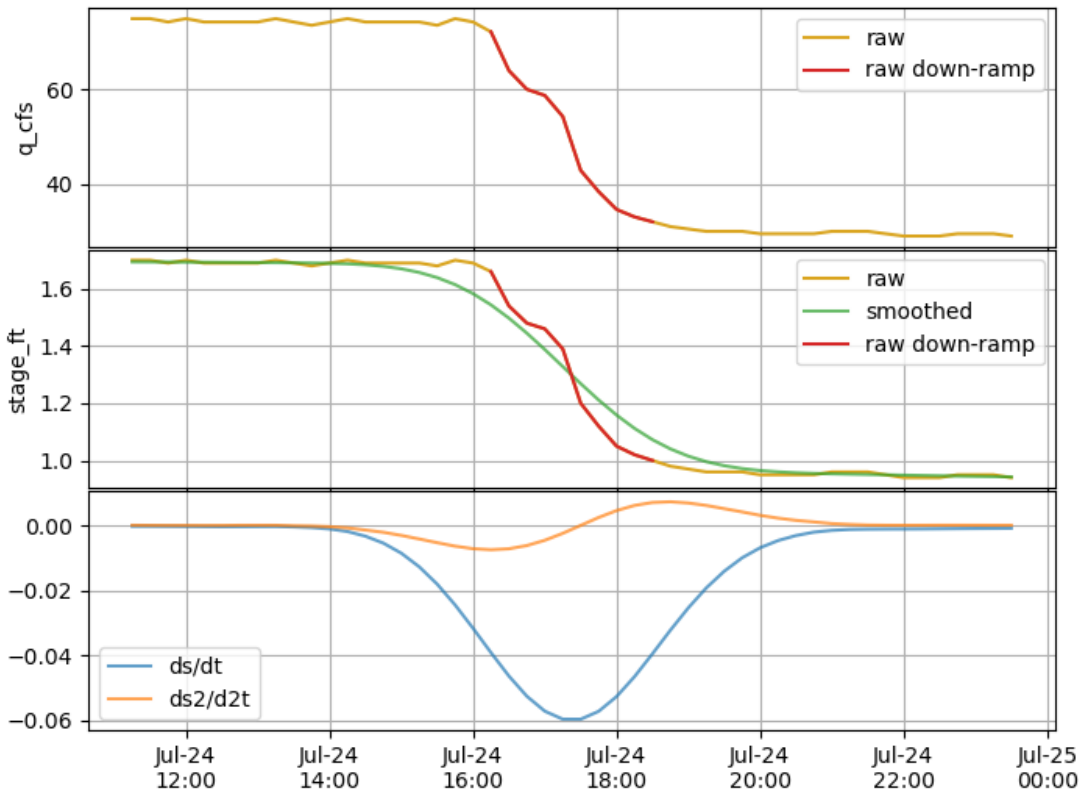


cfs= cubic feet per second; ft = feet

Notes: Top panel: Raw flow data with down-ramping period highlighted in red. Middle panel: Raw and smoothed stage data with raw data during the down-ramping period highlighted in red. Bottom panel: First (ds/dt) and second (ds2/d2t) time derivatives of the smoothed stage data.

Figure A-2. Flow Rate of 110- to 70-cfs Down-Ramping Analysis.

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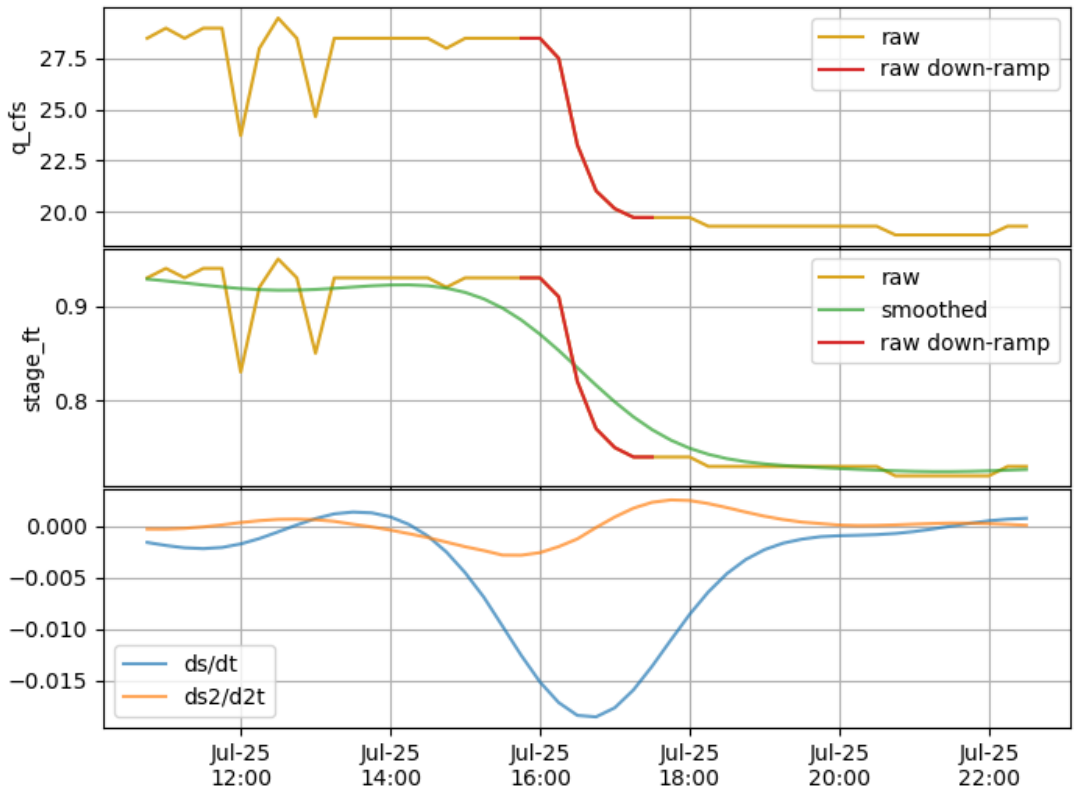


cfs= cubic feet per second; ft = feet

Notes: Top panel: Raw flow data with down-ramping period highlighted in red. Middle panel: Raw and smoothed stage data with raw data during the down-ramping period highlighted in red. Bottom panel: First (ds/dt) and second (ds2/d2t) time derivatives of the smoothed stage data.

Figure A-3. Flow Rate of 70- to 30-cfs Down-Ramping Analysis.

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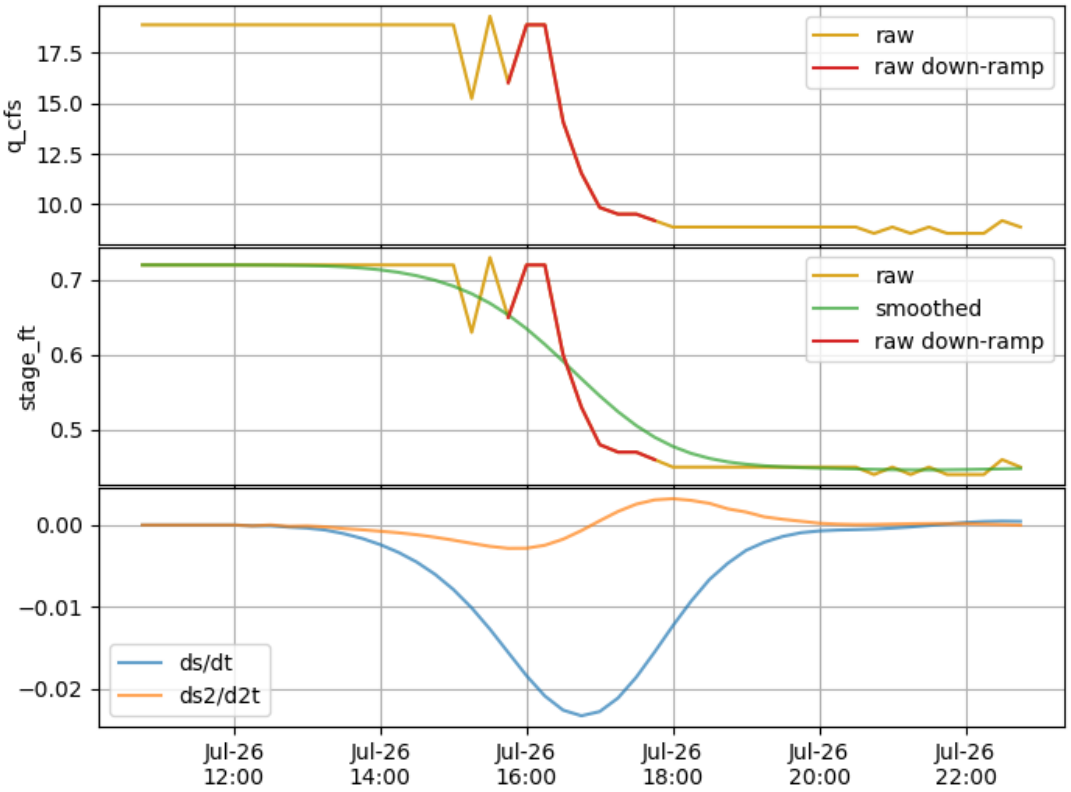


cfs= cubic feet per second; ft = feet

Notes: Top panel: Raw flow data with down-ramping period highlighted in red. Middle panel: Raw and smoothed stage data with raw data during the down-ramping period highlighted in red. Bottom panel: First (ds/dt) and second (ds2/d2t) time derivatives of the smoothed stage data.

Figure A-4. Flow Rate of 30- to 20-cfs Down-Ramping Analysis.

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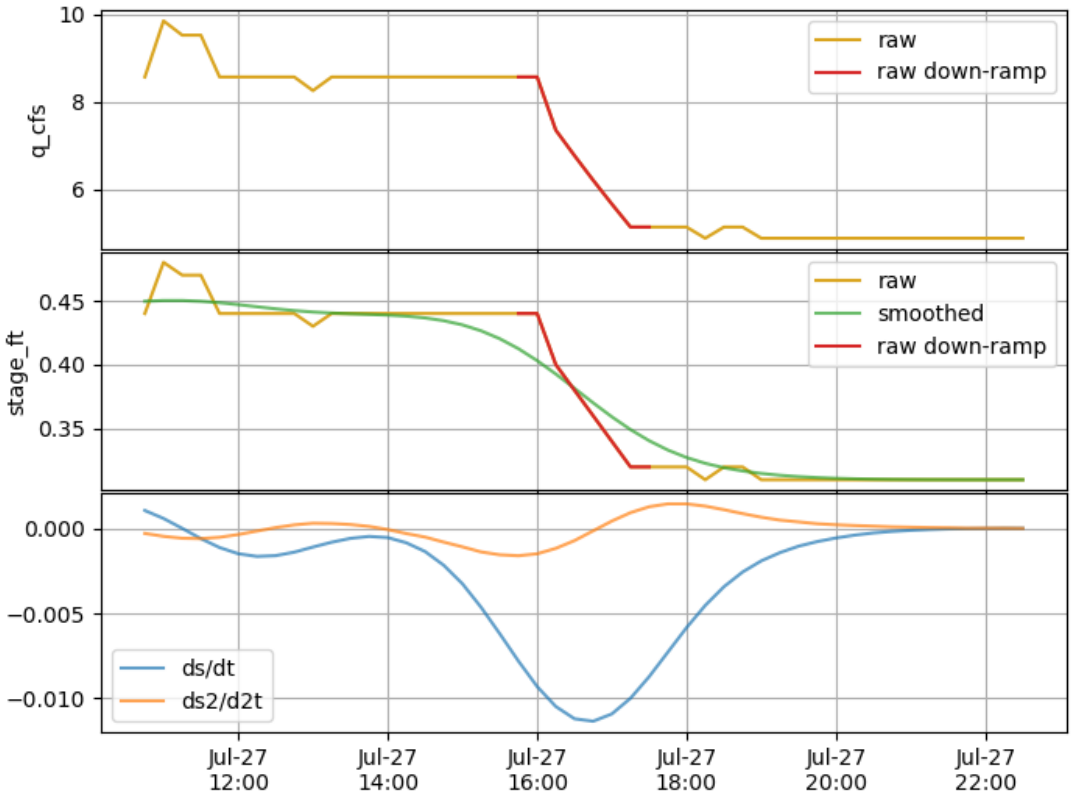


cfs= cubic feet per second; ft = feet

Notes: Top panel: Raw flow data with down-ramping period highlighted in red. Middle panel: Raw and smoothed stage data with raw data during the down-ramping period highlighted in red. Bottom panel: First (ds/dt) and second (ds2/d2t) time derivatives of the smoothed stage data.

Figure A-5. Flow Rate of 20- to 10-cfs Down-Ramping Analysis.

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cfs= cubic feet per second; ft = feet

Notes: Top panel: Raw flow data with down-ramping period highlighted in red. Middle panel: Raw and smoothed stage data, with raw data during the down-ramping period highlighted in red. Bottom panel: First (ds/dt) and second (ds2/d2t) time derivatives of the smoothed stage data.

Figure A-6. Flow Rate of 10- to 5-cfs Down-Ramping Analysis.

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APPENDIX B
PHOTOGRAPHS

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Note: Photograph taken from the left bank looking across the channel at inundated margin habitat with complex habitat elements.

Figure B-1. Site 1 at the 150-cfs Target Flow, July 2025.



Note: Photograph from left bank looking across the channel at dewatered gravel bar and complex habitat elements inundated during higher target flow releases.

Figure B-2. Site 1 at the 10-cfs Target Flow, July 2025.

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Note: Photograph of the right-most side channel.

Figure B-3. Site 2 at the 150-cfs Target Flow, July 2025.



Figure B-4. Backwater Side Channel Downstream of Site 2 at the 70-cfs Target Flow, July 2025.

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Note: Photograph of the right-most side channel.

Figure B-5. Site 2 at the 5-cfs Target Flow, July 2025.



Note: Photograph from the left bank looking across the large beaver pond toward the right bank.

Figure B-6. Site 3 at the 5-cfs Target Flow, July 2025.

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Note: Photograph of isolated pool immediately downstream of Beaver Dam and transect.

Figure B-7. Site 3 at the 5-cfs Target Flow, July 2025.



Note: Photograph of off-channel habitat (gravel bar) on left bank of main channel that became disconnected and dewatered.

Figure B-8. Site 4 at the 110-cfs Target Flow, July 2025.

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Note: Photograph of isolated pool on river left.

Figure B-9. Site 4 at the 30-cfs Target Flow, July 2025.



Note: Photograph of left bank side channel with intermittent surface flows.

Figure B-10. Site 5 at the 70-cfs Target Flow, July 2025.

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Note: Photograph of dewatered margin habitat along the main channel.

Figure B-11. Site 5 at the 20-cfs Target Flow, July 2025.



Note: Photograph of low-velocity margin habitat along left and right banks created by instream vegetation.

Figure B-12. Site 6 at the 150-cfs Target Flow, July 2025.

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Note: Photograph of woody vegetation and small wood creating complex habitat along channel margin.

Figure B-13. Site 7 at the 110-cfs Target Flow, July 2025.



Note: Photograph of off-channel habitat at that was connected at 150 cfs and dry at 70 cfs.

Figure B-14. Site 7 at the 110-cfs Target Flow, July 2025.

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Figure B-15. Two Previously Inundated Side Channels Downstream of the Transect at Site 7 That Became Disconnected or Dewatered by 70 cfs, July 2025.



Figure B-16. Multiple Size Classes of Brook Trout Observed Entrapped in a Pool in Site 4, July 2025.

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SOUTHERN CALIFORNIA EDISON
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RECREATION USE AND NEEDS ASSESSMENT (REC-1) DRAFT TECHNICAL REPORT

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Lundy Hydroelectric Project
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RECREATION USE AND NEEDS ASSESSMENT (REC-1) DRAFT TECHNICAL REPORT

Southern California Edison
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TABLE OF CONTENTS

Page

1.0 Introduction 1
1.1. Review of Existing Information 1
2.0 Study Goals and Objectives 1
2.1. Study Area 2
3.0 Methods 4
3.1. Spot Counts 4
3.2. Recreation Use Visitor Intercept Surveys 12
3.3. Quality Assurance And Quality Control Measures 12
3.4. Current Recreation Use and Utilization Estimates 12
3.5. Future Recreation Use Estimates 14
3.6. Recreation Needs Assessment 14
3.7. Variances to Approved Methods 14
4.0 Study Results 14
4.1. Recreation Use Visitor Intercept Surveys 14
4.1.1. Visitor Demographics 16
4.1.2. Visitor Trip Information 17
4.1.3. Visitor Perceptions 23
4.1.4. Responses to Angling-Related Questions 30
4.2. Spot Counts 37
4.3. Current Recreation Use and Density Estimates 42
4.3.1. Recreation Use 42
4.3.2. Parking Utilization 43
4.3.3. Campground Utilization 44

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4.4. Future Recreation Use and Needs Estimates 46

5.0 Discussion 51

6.0 References 53

LIST OF TABLES

Table 3.1-1. Spot Count/Recreation Use Visitor Intercept Survey Schedule 4

Table 4.1-1. Visitor Surveys Attempted and Completed by Study Site 16

Table 4.1-2. Summary of Respondents' Group Sizes 18

Table 4.1-3. Reported Length of Stay (Hours) by Site 18

Table 4.1-4. Reported Length of Stay (Days) by Site 19

Table 4.1-5. Count of Visitors Engaged in Activity by Site 19

Table 4.1-6. Respondents Engaged in Primary Activity by Site 22

Table 4.1-7. Percentage of Total Respondent Ratings (1-5) for Perceived Crowdedness 24

Table 4.1-8. Percentage of Respondent Ratings (1-5) for Expected Crowdedness 25

Table 4.1-9. Respondents Reporting They Had Ever Changed Their Visit Due to Crowdedness 27

Table 4.1-10. Respondents' Change of Visiting Strategy Due to Crowding at the Project 27

Table 4.1-11. Percentage of Respondent Ratings (1-5) for the Number of Existing Recreation Facilities 28

Table 4.1-12. Percentage of Respondent Ratings (1-5) for the Condition of Existing Recreation Facilities 30

Table 4.1-13. Primary Targeted Species by Respondents 31

Table 4.1-14. Secondary Targeted Species by Respondents 32

Table 4.1-15. Visitor Responses to How Fishing Quality Is Defined 33

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Table 4.2-1. Vehicle Spot Counts at FERC-approved Recreation Sites 38

Table 4.2-2. Spot Count Observed Visitor and Recreation Activities at FERC-approved Recreation Sites 41

Table 4.3-1. Estimated Recreation Day Use for Lundy Lake, Lundy Dam Day Use Area, and Lundy Day Use Areas 1-4 42

Table 4.3-2. Estimated Recreation Day Use for Lundy Campground 43

Table 4.3-3. Average Parking Utilization 43

Table 4.3-4. Lundy Campground Site Use 45

Table 4.4-1. California and Nevada 2014–2023 Population Estimates 47

Table 4.4-2. California and Nevada Population Forecasts through 2078 48

Table 4.4-3. Estimated Future Recreation Days at FERC-approved Recreation Sites 48

Table 4.4-4. Estimated Future Recreation Days at Lundy Campground 49

Table 4.4-5. Estimated Future Parking Utilization Percent at FERC-approved Recreation Sites 49

Table 4.4-6. Estimated Future Camping Utilization Percent at Lundy Campground 50

LIST OF FIGURES

Figure 2.1-1. FERC-approved Recreation Sites at the Lundy Project. 3

Figure 3.1-1. Lundy Lake Boat Launch Parking Area. 6

Figure 3.1-2. Lundy Dam Day Use Area Parking Area. 7

Figure 3.1-3. Lundy Day Use Area 1 Parking Area. 8

Figure 3.1-4. Lundy Day Use Area 2 Parking Area. 9

Figure 3.1-5. Lundy Day Use Area 3 Parking Area. 10

Figure 3.1-6. Lundy Day Use Area 4 Parking Area. 11

Figure 4.1-1. Summary of Ages in Respondents' Groups. 17

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Figure 4.1-2. Percentage of Respondents Participating in Activities by Site..... 21

Figure 4.1-3. Percentage of Respondents Primary Activity by Site. 23

Figure 4.1-4. Perception of Crowdedness. 24

Figure 4.1-5. Expectation of Crowdedness. 26

Figure 4.1-6. Perception of Number of Existing Recreation Facilities..... 29

Figure 4.1-7. Perception of Condition of Existing Recreation Facilities. 30

Figure 4.1-8. Number of Visits Per Year for Fishing. 32

Figure 4.1-9. Visitor Opinions Comparing Fishing Quality to Other Sites. 34

Figure 4.1-10. Visitor Opinions Comparing Fishing Quality to Previous Site Visits. 34

Figure 4.1-11. Length by Species for Lundy Lake. 36

Figure 4.1-12. Length by Species for Mill Creek. 37

Figure 4.3-1. Approximate Seasonal Lundy Campground Utilization 2022–2025. 46

LIST OF APPENDICES

Appendix A Recreation Use Spot Count Form

Appendix B Recreation Use Visitor Intercept Survey Form

Appendix C Qualitative Survey Responses

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LIST OF ACRONYMS AND ABBREVIATIONS

A

ACS	American Community Survey

C

CCW	counterclockwise
CDPR	California Department of Parks and Recreation
CPUE	catch-per-unit effort
CW	clockwise

F

FERC	Federal Energy Regulatory Commission

L

Lundy Project	Lundy Hydroelectric Project (FERC Project No. 1390)

P

Project	Lundy Hydroelectric Project (FERC Project No. 1390)

Q

QA	quality assurance
QC	quality control

R

REC-1	Recreation Use and Needs Assessment
REC-2	Recreation Facilities Condition Assessment

S

SCE	Southern California Edison
SCORP	Statewide Comprehensive Outdoor Recreation Plan
SPD	Study Plan Determination

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct a Recreation Use and Needs Assessment Study (REC-1) to gather baseline data on current recreation use and evaluate future recreation needs associated with the Project. FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the study with modification (FERC, 2025; SCE, 2024). This Draft Technical Report includes a summary of the collected and analyzed data for REC-1, which will inform the Draft License Application.

1.1. REVIEW OF EXISTING INFORMATION

This study reviews and incorporates existing information related to recreation use and needs identified at the Lundy Project. The following is a list of studies and reports reviewed as part of this REC-1 study:

- California's 2021–2025 Statewide Comprehensive Outdoor Recreation Plan (SCORP) (CDPR, 2020)
- Mono County campground data

2.0 STUDY GOALS AND OBJECTIVES

The goals and objectives of REC-1 were as follows:

Goal 1 – Characterize the existing use of the FERC-approved recreation sites at the Lundy Project.

Goal 1 Objectives:

- Estimate the recreation use at the FERC-approved recreation sites included in the Lundy Project Boundary by day type (i.e., weekday, weekend, or peak weekend) and activity.
- Evaluate visitor feedback regarding the perception and experience of visitors at the FERC-approved recreation sites.
- Estimate the current recreational fishing effort in Lundy Lake and Mill Creek within the Lundy Project Boundary.

Goal 2 – Identify current and future needs related to the FERC-approved recreation sites included at the Lundy Project.

Goal 2 Objectives:

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- Evaluate whether the capacity of the existing FERC-approved recreation sites meets current needs.
- Estimate future recreation use of the FERC-approved recreation sites.
- Estimate potential future recreation needs and the ability of the existing FERC-approved recreation sites to meet the future needs over the term of a new license.

2.1. STUDY AREA

The REC-1 study area is shown on Figure 2.1-1. Methods listed in Section 3.0 were implemented at all recreation sites.

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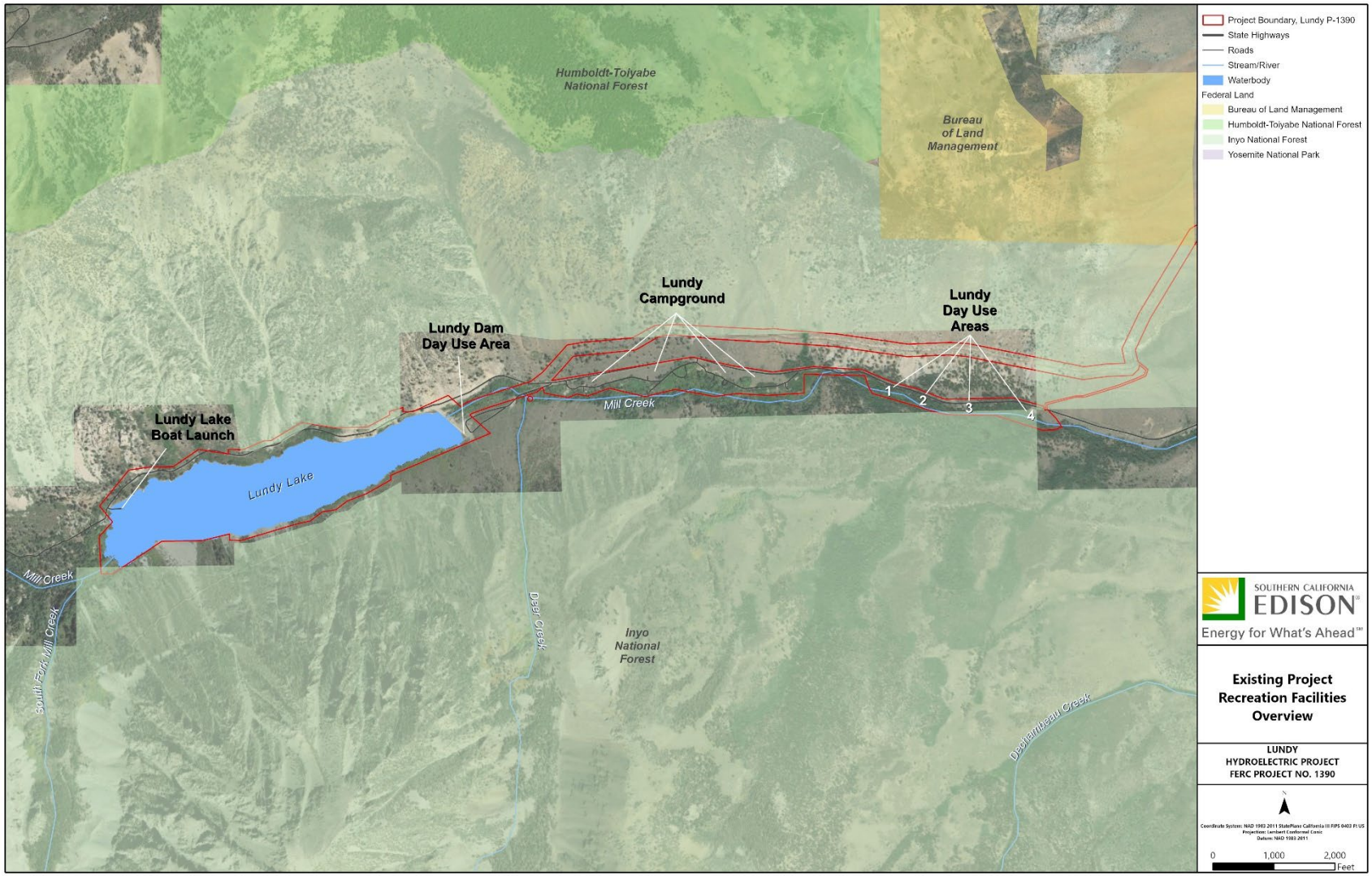


Figure 2.1-1. FERC-approved Recreation Sites at the Lundy Project.

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3.0 METHODS

To accomplish the goals and objectives for REC-1, SCE used a variety of data collection techniques to compile both historical and current recreation use and needs patterns for the Lundy Project. Current use and needs information were collected through spot counts and recreation use visitor intercept surveys. Additionally, for those visitors indicating fishing as their primary recreation activity during the recreation use visitor intercept survey, additional angling-related questions were included per the FERC SPD. A description of each collection technique is provided below.

Existing data were used to inform current recreation use as well as forecasted future recreation needs at the FERC-approved recreation sites. Existing data included U.S. Census Bureau data, the SCORP, Mono County existing data collected at Lundy Lake Campground, and other relevant, available data and literature.

Section 3.1 and Section 3.2 provide details on the primary data collection methods.

3.1. SPOT COUNTS

Spot counts provide an estimate of the number of recreationists, parked vehicles, and boats/trailers at discrete times at each parking area within each recreation site (Figure 3.1-1 through Figure 3.1-6). Field technicians conducting the spot counts recorded the activities that individuals were participating in, paying attention to the use of recreation facilities/amenities provided at each site. Results were documented on a Recreation Use Spot Count form (Appendix A).

Spot counts at the parking areas of the FERC-approved recreation sites were conducted on 16 weekdays and 16 non-peak weekend days from April 15, 2025, to November 15, 2025, and on 1 day of each peak weekend for a total of 36 days throughout the study period. For the purposes of this study, the holidays include the 3 days of the peak weekend Memorial Day: May 24 to 26, 2025; Juneteenth: June 20 to 22, 2025; Independence Day: July 4 to 6, 2025; and Labor Day: August 30 to September 1, 2025.

Sampling dates and times were selected using systematic random sampling by day type for the parking areas at the FERC-approved recreation sites. SCE developed a circuit to allow visits to each parking area associated with all FERC-approved recreation sites, on each sampling day, and the visits started at a different location and at a different time of day, during each circuit, to support random sampling. Spot counts and recreation use visitor intercept surveys were conducted on the same day (Table 3.1-1).

Table 3.1-1. Spot Count/Recreation Use Visitor Intercept Survey Schedule

Date	Day Type	Start Site	Direction
04/19/2025	Non-Peak Weekend	Lundy Day Use Area 1	CCW
04/24/2025	Weekday	Lundy Campground	CCW
04/27/2025	Non-Peak Weekend	Lundy Day Use Area 1	CW
05/08/2025	Weekday	Lundy Day Use Area 4	CCW

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Date	Day Type	Start Site	Direction
05/10/2025	Non-Peak Weekend	Lundy Day Use Area 3	CW
05/21/2025	Weekday	Lundy Day Use Area 2	CCW
05/25/2025[a]	Peak Weekend	Lundy Dam Day Use Area	CW
05/31/2025	Non-Peak Weekend	Lundy Day Use Area 2	CW
06/05/2025	Weekday	Lundy Dam Day Use Area	CW
06/08/2025	Non-Peak Weekend	Lundy Dam Day Use Area	CW
06/18/2025	Weekday	Lundy Day Use Area 4	CCW
06/21/2025	Peak Weekend	Lundy Dam Day Use Area	CW
06/28/2025	Non-Peak Weekend	Lundy Day Use Area 2	CCW
07/02/2025	Weekday	Lundy Day Use Area 2	CW
07/05/2025	Peak Weekend	Lundy Day Use Area 2	CCW
07/17/2025	Weekday	Lundy Day Use Area 4	CCW
07/27/2025	Non-Peak Weekend	Lundy Day Use Area 2	CW
07/30/2025	Weekday	Lundy Day Use Area 4	CW
08/02/2025[b]	Non-Peak Weekend	Lundy Day Use Area 2	CW
08/09/2025	Non-Peak Weekend	Lundy Day Use Area 3	CCW
08/12/2025	Weekday	Lundy Day Use Area 4	CCW
08/17/2025	Non-Peak Weekend	Lundy Campground	CW
08/26/2025	Weekday	Lundy Day Use Area 1	CCW
08/31/2025	Peak Weekend	Lundy Day Use Area 4	CCW
09/07/2025	Non-Peak Weekend	Lundy Campground	CCW
09/09/2025	Weekday	Lundy Dam Day Use Area	CCW
09/20/2025	Non-Peak Weekend	Lundy Day Use Area 4	CCW
09/23/2025	Weekday	Lundy Campground	CCW
09/28/2025	Non-Peak Weekend	Lundy Day Use Area 4	CCW
10/06/2025	Weekday	Lundy Day Use Area 3	CCW
10/12/2025	Non-Peak Weekend	Lundy Campground	CW
10/17/2025	Weekday	Lundy Day Use Area 1	CCW
10/25/2025	Non-Peak Weekend	Lundy Day Use Area 1	CW
10/31/2025	Weekday	Lundy Day Use Area 4	CCW
11/02/2025	Non-Peak Weekend	Lundy Lake Boat Launch	CW
11/13/2025	Weekday	Lundy Day Use Area 1	CCW

CCW = counterclockwise; CW = clockwise

Notes:

[a] Sampling date was cancelled due to wildfire near the Project Area.

[b] Date of sample was not part of the original sample. A staff emergency on July 19 caused this deviation from the systematic sampling regime.

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Figure 3.1-1. Lundy Lake Boat Launch Parking Area.

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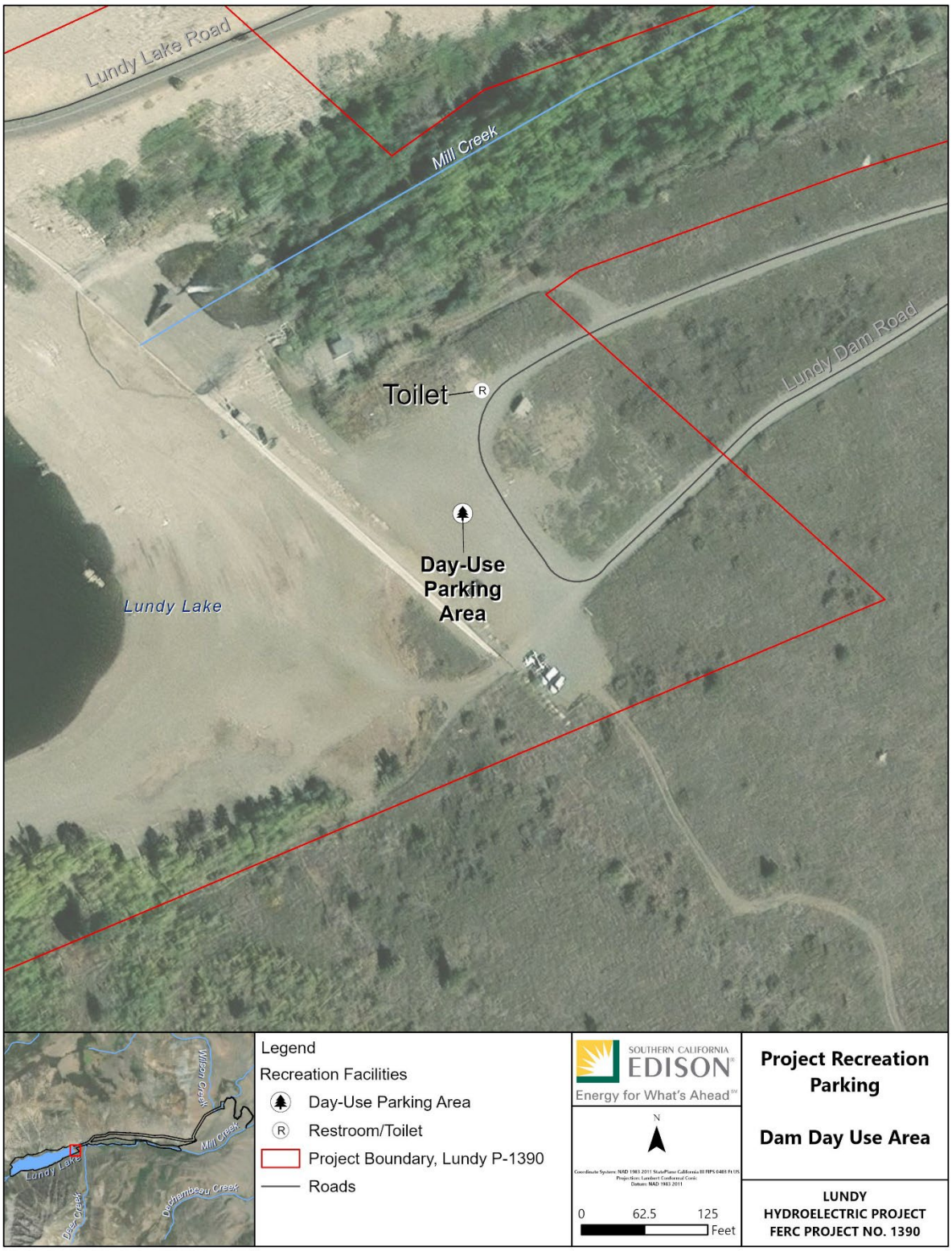


Figure 3.1-2. Lundy Dam Day Use Area Parking Area.

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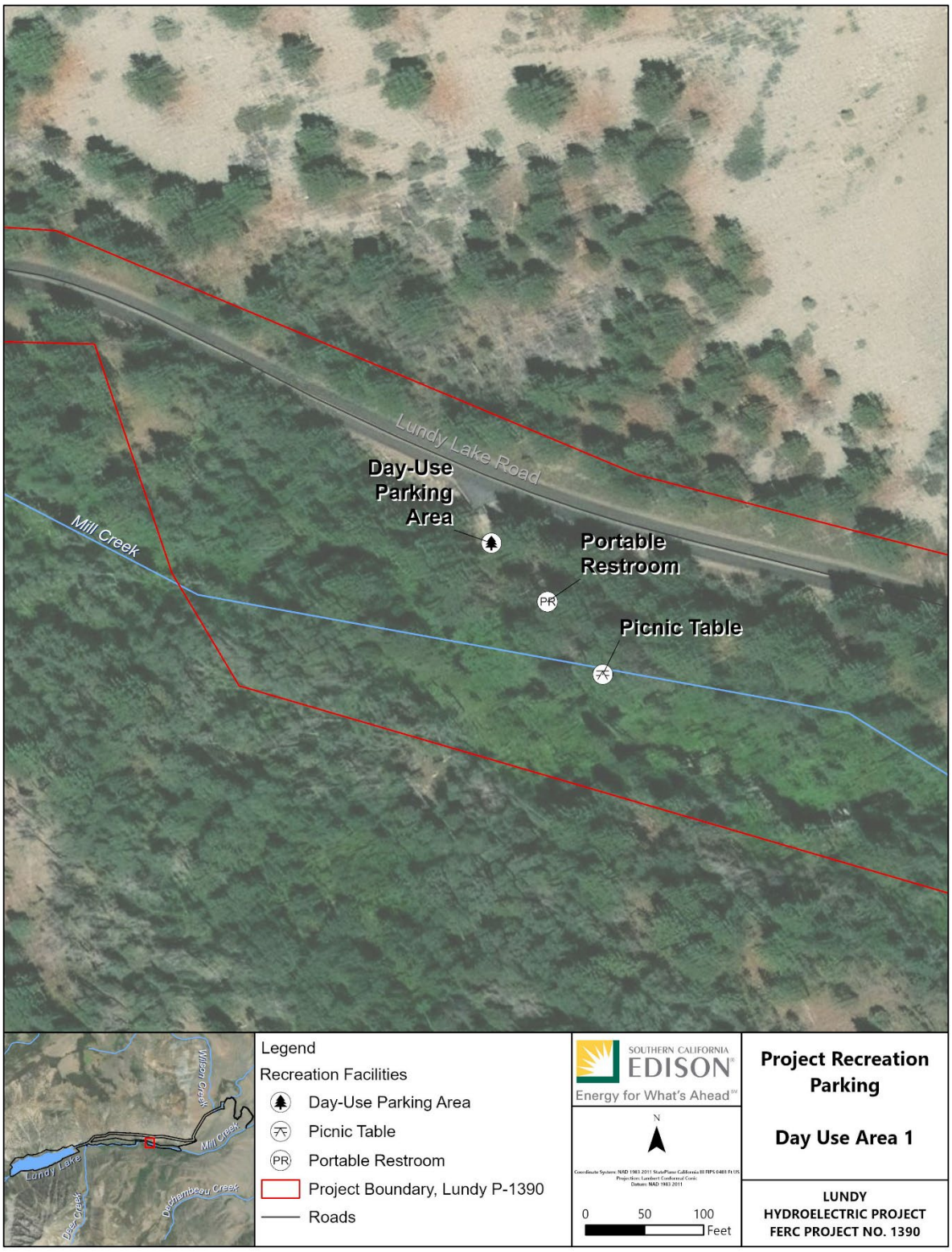


Figure 3.1-3. Lundy Day Use Area 1 Parking Area.

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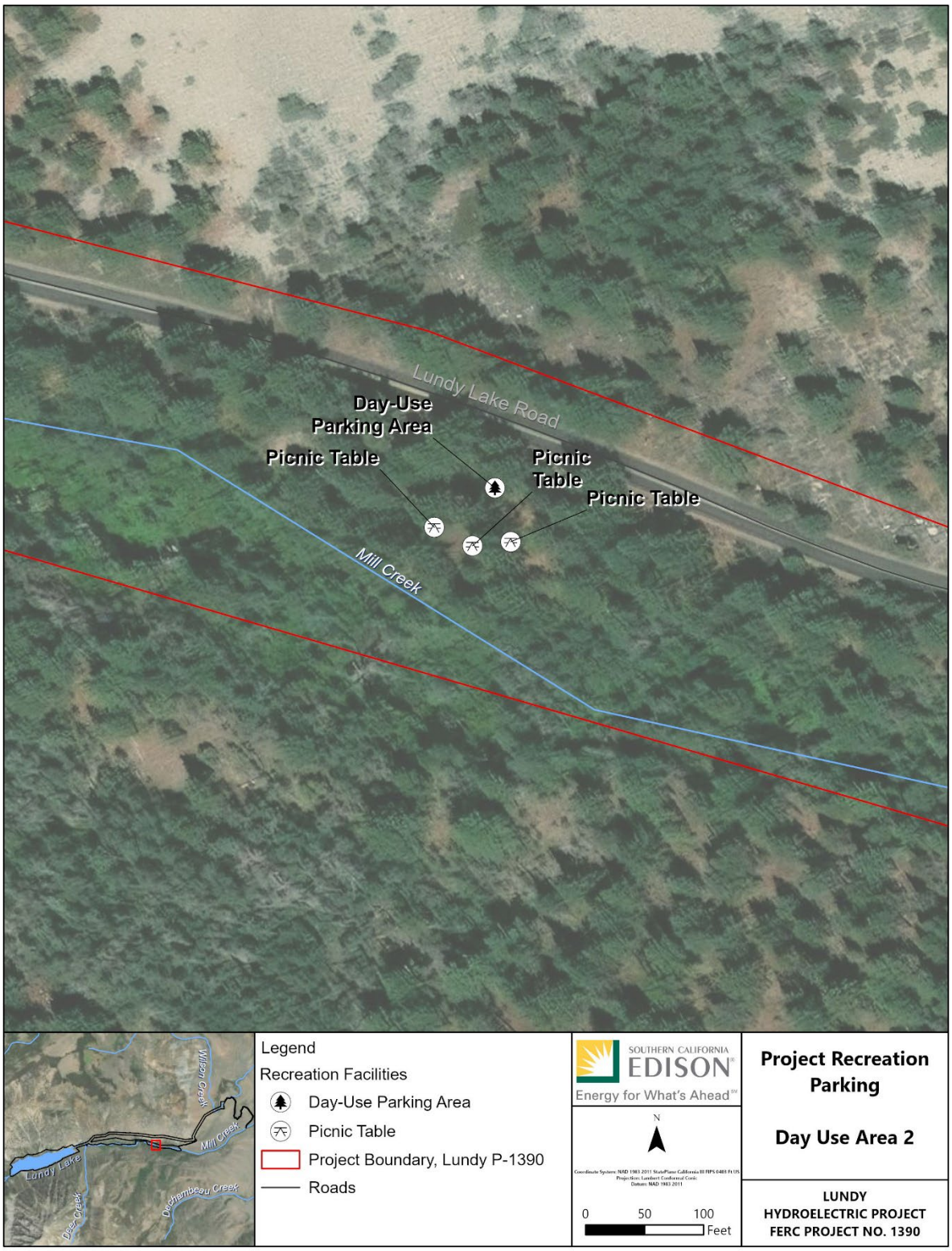


Figure 3.1-4. Lundy Day Use Area 2 Parking Area.

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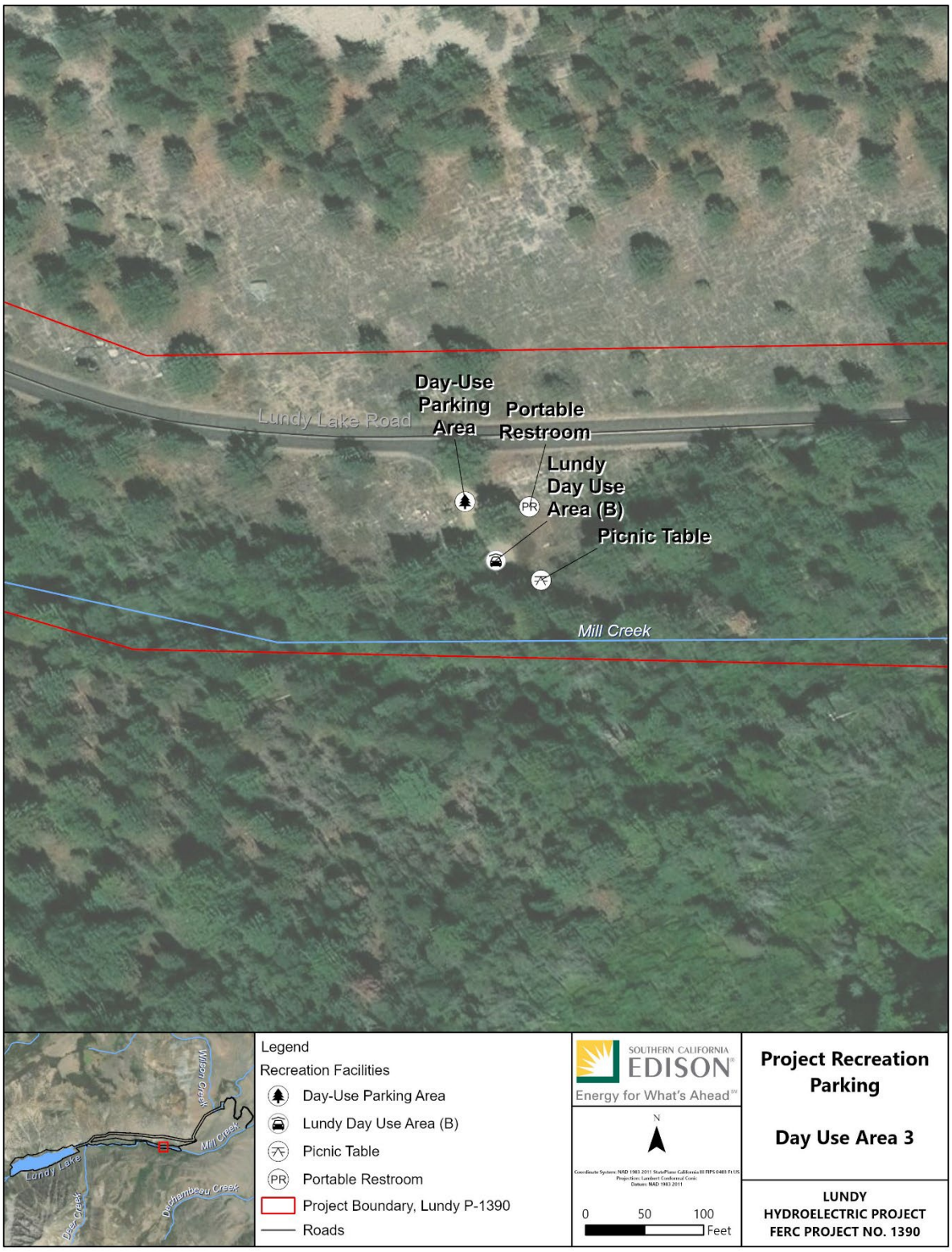


Figure 3.1-5. Lundy Day Use Area 3 Parking Area.

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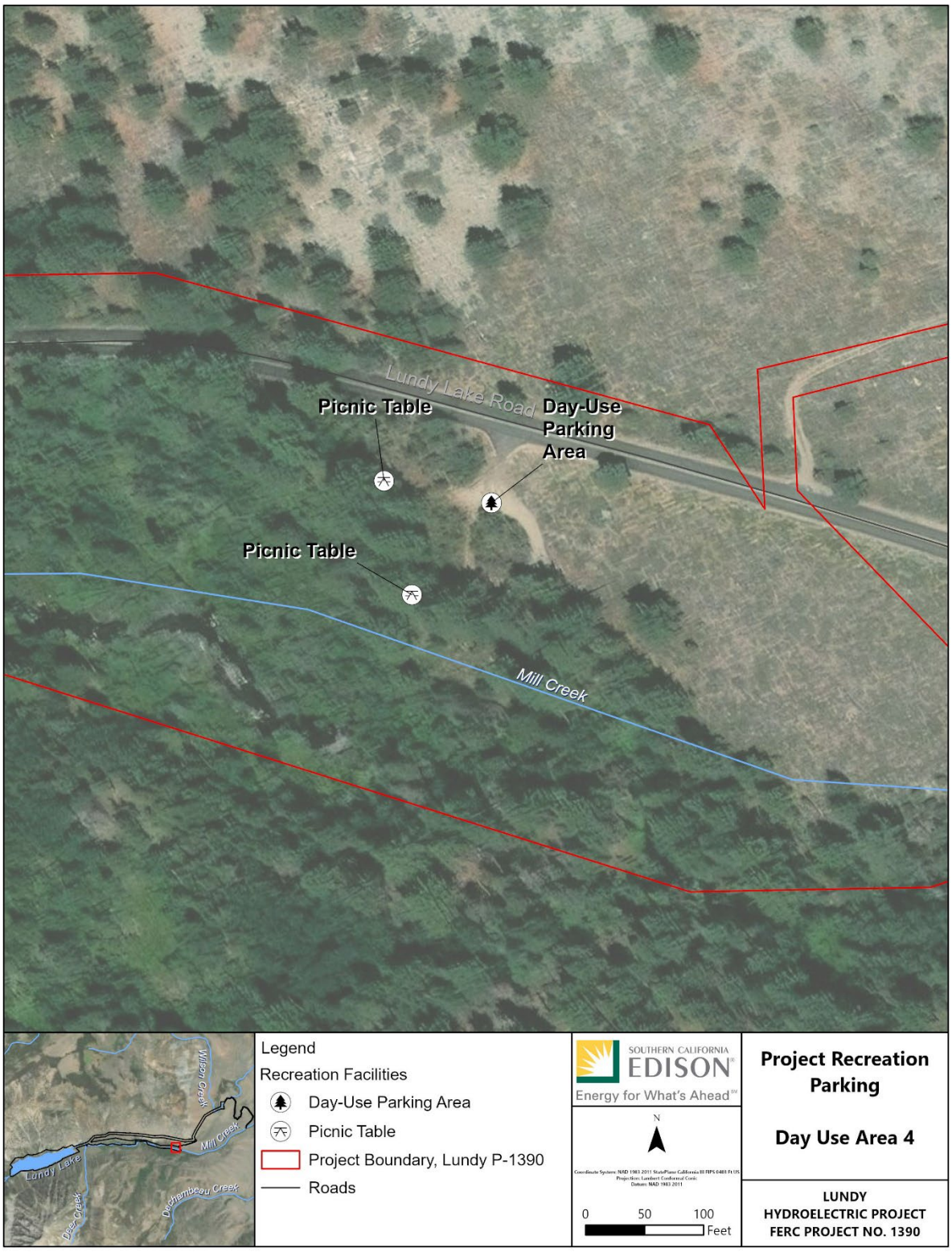


Figure 3.1-6. Lundy Day Use Area 4 Parking Area.

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3.2. RECREATION USE VISITOR INTERCEPT SURVEYS

SCE conducted recreation use visitor intercept surveys at the FERC-approved recreation sites (Figure 3.1-1 through Figure 3.1-6). A Recreation Use Visitor Intercept Survey form is provided in Appendix B. The full set of questions was designed to collect information on group sizes, recreation activities, length of visit, crowdedness, user satisfaction, and site conditions. Per FERC's SPD, for those who responded that they were fishing, SCE included fishing-specific questions (e.g., timing, effort, harvest, composition, and success, and estimates of catch-per-unit effort [CPUE]).

Field technicians visited each recreation site on 16 weekdays and 16 weekends from April 15, 2025, to November 15, 2025, and on 1 day of each peak weekend for a total of 36 days throughout the study period. For the purposes of this study, the holidays include the 3 days of the peak weekend Memorial Day: May 24 to 26, 2025; Juneteenth: June 20 to 22, 2025; Independence Day: July 4 to 6, 2025; and Labor Day: August 30 to September 1, 2025. Recreation use visitor intercept survey days were conducted on the same days as spot counts, previously described in Section 3.1 (Table 3.1-1). Field technicians were at each recreation site for approximately 1 hour conducting the recreation use visitor intercept surveys. Qualitative survey responses are provided in Appendix C.

3.3. QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

All field data (spot counts) and survey data (user surveys) collected as part of REC-1 were subject to a rigorous multi-step quality assurance (QA) and quality control (QC) protocol to validate the dataset used in the recreation use analysis.

The QA/QC protocol involved a multi-stage approach to ensure the integrity and accuracy of the data as follows:

- QC1 focused on verifying that all field data were properly recorded and complete.
- QC2 included a detailed examination of the data to identify and address outliers or suspect values. Data were examined to identify erroneously repeated data, data with questionable validity, or data that contained suspect information otherwise not captured.
- QC3 entailed standardizing data formats and units, as well as more in-depth checks for erroneous data, spelling errors, etc. The QC3 process ensured data met the requirements for its intended use and continued throughout the analysis.

3.4. CURRENT RECREATION USE AND UTILIZATION ESTIMATES

Recreation days were estimated using a combination of data from the user surveys and spot counts. At day use sites, recreation days were calculated as follows (Pollock et al., 1994):

Average Vehicle Count (by month and day type from spot count data)

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× **Average People per Vehicle** (from user survey data)

× **Recreation Day[1] Length** (12 hours assumed for day use)

× **Total Number of Days** (by month and day type)

÷ **Average Trip Length** (from user survey data)

= **Estimated Number of Recreation Days** (by month and day type)

For the purposes of this study, the average people per vehicle was assumed to be the average group size collected from the user surveys. The estimates are presented as total recreation days by month, day type, and site.

Recreation days for the Lundy Campground were estimated based on the number of occupied campsites observed during the spot counts and visitor group sizes reported in recreation use visitor intercept surveys. This estimation reflects overnight occupancy and therefore does not include an adjustment for length of stay.

Parking capacity for a recreation site was defined as the number of vehicles that can be parked at a recreation site at one time based on the number of available parking[2] spaces associated with that site. Parking capacities for each site with a parking area were described in the *Recreation Facilities Condition Assessment (REC-2) Draft Technical Report* (See Exhibit E, REC-2 draft report, Appendix XX, DLA Volume III). To determine the parking utilization, the average number of vehicles observed on peak and non-peak weekends was calculated from the spot counts. This was divided by the available parking capacity. The formula for determining parking utilization is shown below.

Parking utilization = $\left(\frac{Average\ Vehicles}{Parking\ Capacity}\right) \text{x } 100$

The campground capacity was defined as the number of available campsites associated with that site. Campground capacity was described in the REC-2 Draft Technical Report (See Exhibit E, REC-2 draft report, Appendix XX, DLA Volume III). The formula for estimating campground utilization on peak and non-peak weekends is shown below.

Campground utilization =$\left(\frac{Average\ Campsites\ Occupied}{Campground\ Capacity}\right) \text{x } 100$

[1] As defined by FERC, a recreation day is each visit by a person to the study site for recreational purposes during any portion of a 24-hour period.

[2] In parking areas where spaces were not clearly defined (i.e., gravel parking areas), the average size of a standard car parking space was estimated to be 16 to 18 feet long and 8 to 9 feet wide (~130 to 160 square feet). The average size of a trailered parking space was estimated to be 38 to 40 feet long and 13 to 15 wide (~500 to 600 square feet). For the purpose of this study, the upper range was used to determine total parking availability.

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3.5. FUTURE RECREATION USE ESTIMATES

Population estimates from 2014 to 2023 were obtained from the U.S. Census Bureau for the state of California and the state of Nevada based on where survey respondents reported residing (see Section 4.2; U.S. Census Bureau, 2024). From the 2014–2023 population data, the 10-year average rate of change in the population for the states was estimated using log-linear population models. The average rate of change for the two states was weighted based on the proportion of visitors who reported residing in each state. This rate of change was used to estimate the population forecasts for 2028, 2033, 2038, 2043, 2048, 2053, 2058, 2063, 2068, 2073, and 2078 for the state of California and the state of Nevada.

3.6. RECREATION NEEDS ASSESSMENT

The need for new recreation opportunities, new site development, or modification of existing recreation resources was assessed based on the results of facility condition assessments, site capacity estimates, and user surveys that provided user preferences and opinions on needs and crowding at each recreation site. Based on these results, recommendations were proposed to address effects of future Project facilities and operations.

3.7. VARIANCES TO APPROVED METHODS

SCE encountered the following variances when implementing the REC-1 study plan as approved by FERC in its SPD (FERC, 2025):

- From May 22 to 25, 2025, the Inn Fire in Mono City closed U.S. 395 and caused mandatory evacuation of the Project Area, preventing surveyors from having safe access to conduct the scheduled survey day on May 25, 2025. Given this survey day fell on a peak weekend, the team did not recover the lost time by conducting the survey on another date during the study period. Other peak weekend surveys were implemented and completed as scheduled for the Juneteenth weekend, Independence Day weekend, and Labor Day weekend.

- Per the Revised Study Plan, two field technicians were planned to conduct surveys during the survey sampling days. Due to extenuating circumstances, there were three field dates that had one field technician administering surveys. Those dates included August 2, August 9, and August 31, 2025. However, 207 surveys were collected during the entire study period to provide survey data to characterize recreation use preferences at the Lundy Project.

4.0 STUDY RESULTS

4.1. RECREATION USE VISITOR INTERCEPT SURVEYS

The recreation use visitor intercept surveys were collected between April 15, 2025, and November 15, 2025 (Table 3.1-1). A total of 288 user surveys were attempted. Of those, 66 visitors declined to participate in the survey, and 15 visitors had already completed the

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survey, leading to a user survey participation rate of approximately 72 percent and a total of 207 completed surveys to be used for data analysis (Table 4.1-1).

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Table 4.1-1. Visitor Surveys Attempted and Completed by Study Site

Site Name	Accepted	Declined	Previously Surveyed	Total
Lundy Lake Boat Launch	59	24	2	85
Lundy Dam Day Use Area	50	14	2	66
Lundy Campground	92	24	11	127
Lundy Day Use Area 1[a]	0	3	0	3
Lundy Day Use Area 2[b]	0	0	0	0
Lundy Day Use Area 3[a]	3	0	0	3
Lundy Day Use Area 4[a]	3	1	0	4
Total Count	207	66	15	288
Total Percentage	71.9	22.9	5.2	100

Notes:
[a] Lundy Day Use Areas saw low participation due to lower usage as demonstrated by the spot counts.
[b] Lundy Day Use Area 2 saw no use during visitor intercept survey times.

4.1.1. VISITOR DEMOGRAPHICS

A majority of the 207 survey respondents were residents of California (79.7 percent). Respondents reported coming from 41 of the 58 counties in California, with the largest shares coming from Los Angeles County (11.1 percent), San Diego County (6.3 percent), San Bernardino County (5.3 percent), Orange County (4.8 percent), and Riverside County (4.3 percent). Nevada was the second-most common state represented (11.1 percent), but respondents came from 10 additional U.S. states, and also from other countries (2.4 percent).

A total of 170 respondents provided age information for 508 visitors. All age groups are represented, with the largest shares in the 65 years or older (21.9 percent) and 55 to 64 years old groups (19.3 percent) (Figure 4.1-1). The smallest age group was young adults ages 18 to 24, making up only 5.5 percent of the 508 visitors represented.

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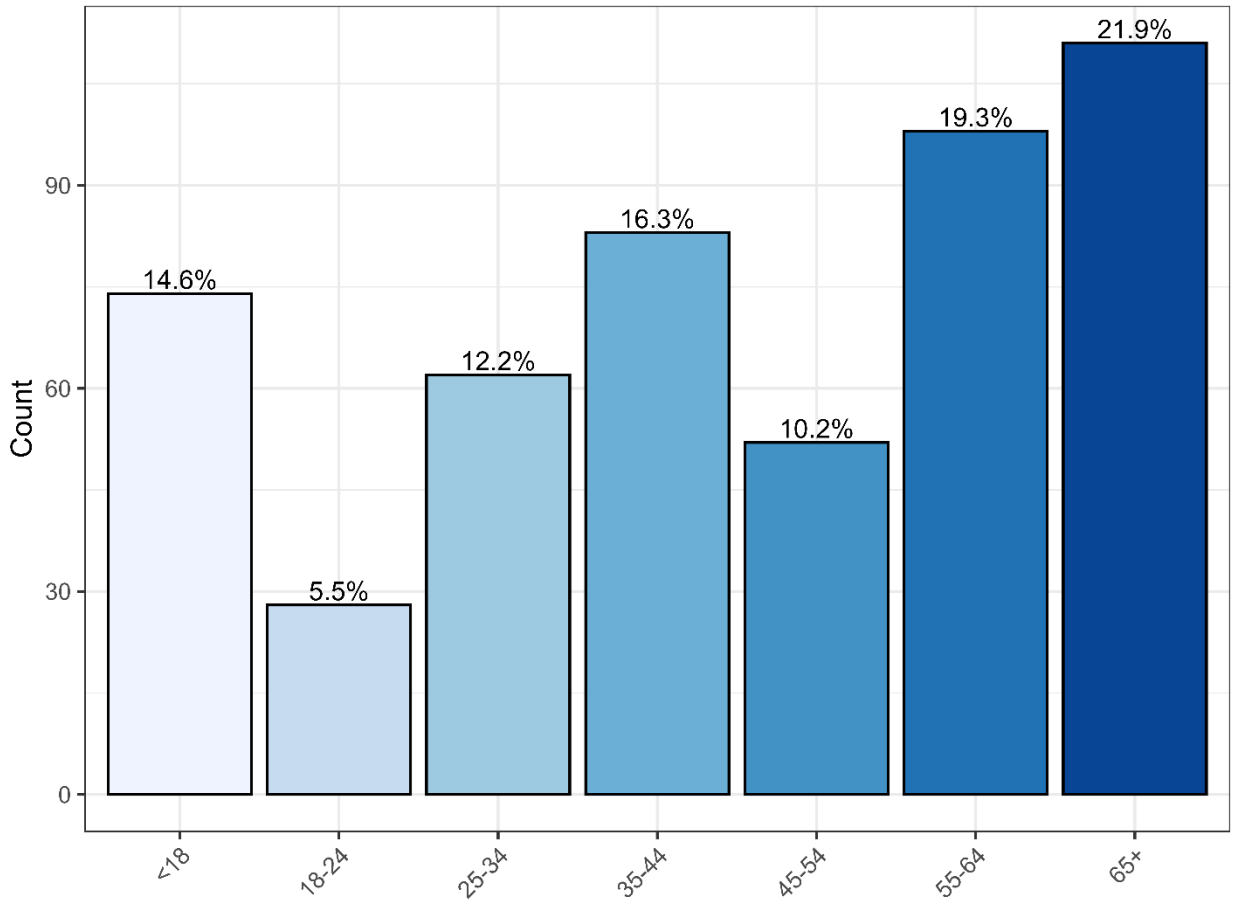


Figure 4.1-1. Summary of Ages in Respondents' Groups.

4.1.2. VISITOR TRIP INFORMATION

The average of the group sizes reported by respondents across all survey sites was 3.1 people, and the median group size was 2 (Table 4.1-2). Group sizes were largest and most variable at the Lundy Lake Boat Launch, which had an average of 3.7 people and a maximum reported group size of 16. The Lundy Dam Day Use Area and Lundy Campground had similar group sizes, while Lundy Day Use Area 3 and Lundy Day Use Area 4 had small group sizes of 1 or 2 people. In total, the 207 respondents represented 640 visitors across all sites.

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Table 4.1-2. Summary of Respondents' Group Sizes

Site Name[a]	Count	Group Size (People)			
		Minimum	Median	Average	Maximum
Lundy Lake Boat Launch	59	1	3	3.7	16
Lundy Dam Day Use Area	50	1	2	2.8	11
Lundy Campground	92	1	2	2.9	9
Lundy Day Use Area 3	3	1	2	1.7	2
Lundy Day Use Area 4	3	2	2	2	2
Totals	207	1	2	3.1	16

Notes:
[a] There were no completed surveys at Lundy Day Use Area 1 and Lundy Day Use Area 2.

Across all Lundy Day Use areas, including non-campers at Lundy Campground, the average of reported lengths of stay was 2.9 hours with a median stay duration of 2 hours. The length of stay varied among sites, with Lundy Lake Boat Launch and Lundy Dam Day Use Area having a median duration of approximately 2 hours, Lundy Campground (non-campers) and Lundy Day Use Area 4 both had median stays of 1 hour, and Lundy Day Use Area 3 had a median stay of 8 hours (n = 3; Table 4.1-3). The three survey respondents at Lundy Day Use Area 3 reported stays of 2, 8, and 24 hours, which indicates longer and more variable visit times at this site than other sites. Lundy Campground appears in the Lundy Day Use dataset because some visitors were present at the campground area but were not camping.

Visitors camping had an average length of stay at Lundy Campground of 4.3 days, with a median stay of 3 days (Table 4.1-4). The range of days stayed at the campground ranged from 1 to 35 days.

Table 4.1-3. Reported Length of Stay (Hours) by Site

Site Name	Count	Length of Stay for Lundy Day Use Areas (Hours)			
		Minimum	Median	Average	Maximum
Lundy Lake Boat Launch	59	0.2	2	2.5	8
Lundy Dam Day Use Area	50	0.5	2.2	3.1	8
Lundy Campground	2	1	1	1	1
Lundy Day Use Area 3	3	2	8	11.3	24
Lundy Day Use Area 4	3	0.2	1	1.1	2
Totals	117	0.2	2	2.9	24

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Table 4.1-4. Reported Length of Stay (Days) by Site

Site Name	Count	Length of Stay for Campground (Days)			
		Minimum	Median	Average	Maximum
Lundy Campground	90	1	3	4.3	35

Across all surveyed locations, respondents reported participating in a range of recreation activities. Because respondents could identify more than one activity, this section summarizes all activities reported, including both primary and secondary activities. Camping emerged as the most common activity at Lundy Project recreation sites, reported by 58 percent of respondents (Table 4.1-5, Figure 4.1-2). Day hiking and fishing followed as next most reported activity by 43.5 percent and 42.5 percent of the participants. Fishing was the most frequently reported activity at Lundy Lake Boat Launch and Lundy Dam Day Use Area. Respondents also engaged in a variety of other activities, including viewing scenery (26.6 percent), viewing wildlife (18.8 percent), relaxing (14.5 percent), and photography (14.5 percent). Other less frequent activities included scenic driving, swimming, bicycling, and picnicking. Additionally, 6.8 percent of respondents identified “Other” activities, ranging from skiing, snowboarding, foraging, hunting, split boarding, four-wheel driving, boating, volunteer events, and rock climbing.

Table 4.1-5. Count of Visitors Engaged in Activity by Site

Activities	Number of Responses per Site[a]					Total Responses	
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3	Lundy Day Use Area 4	Count	Percent
Camping	15	12	90	3	0	120	58
Day Hiking	22	18	47	2	1	90	43.5
Fishing	35	28	24	1	0	88	42.5
Viewing Scenery	17	17	19	1	1	55	26.6
Viewing Wildlife	10	10	16	2	1	39	18.8
Relaxing	6	7	16	1	0	30	14.5
Photography	9	4	15	2	0	30	14.5
Scenic Driving	4	4	8	1	0	17	8.2
Swimming	2	3	8	1	0	14	6.8
Bicycling	1	1	8	0	0	10	4.8

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Activities	Number of Responses per Site[a]					Total Responses	
	Lundy Lake Boat Launch	**Lundy Dam Day Use Area**	**Lundy Campground**	**Lundy Day Use Area 3**	**Lundy Day Use Area 4**	**Count**	**Percent**
Personal Watercraft Use	6	1	3	0	0	10	4.8
Picnicking	1	3	2	2	1	9	4.3
Overnight Backpacking	1	0	0	0	0	1	0.5
Other	1	6	6	0	1	14	6.8
Total b	59	50	92	3	3	207	

Notes:
[a] There were no completed surveys at Lundy Day Use Area 1 and Lundy Day Use Area 2.
[b] Respondents were allowed to report multiple recreation activities. Therefore, totals represent the number of unique respondents surveyed at each site and are not equal to the sum of the activity counts reported within each column.

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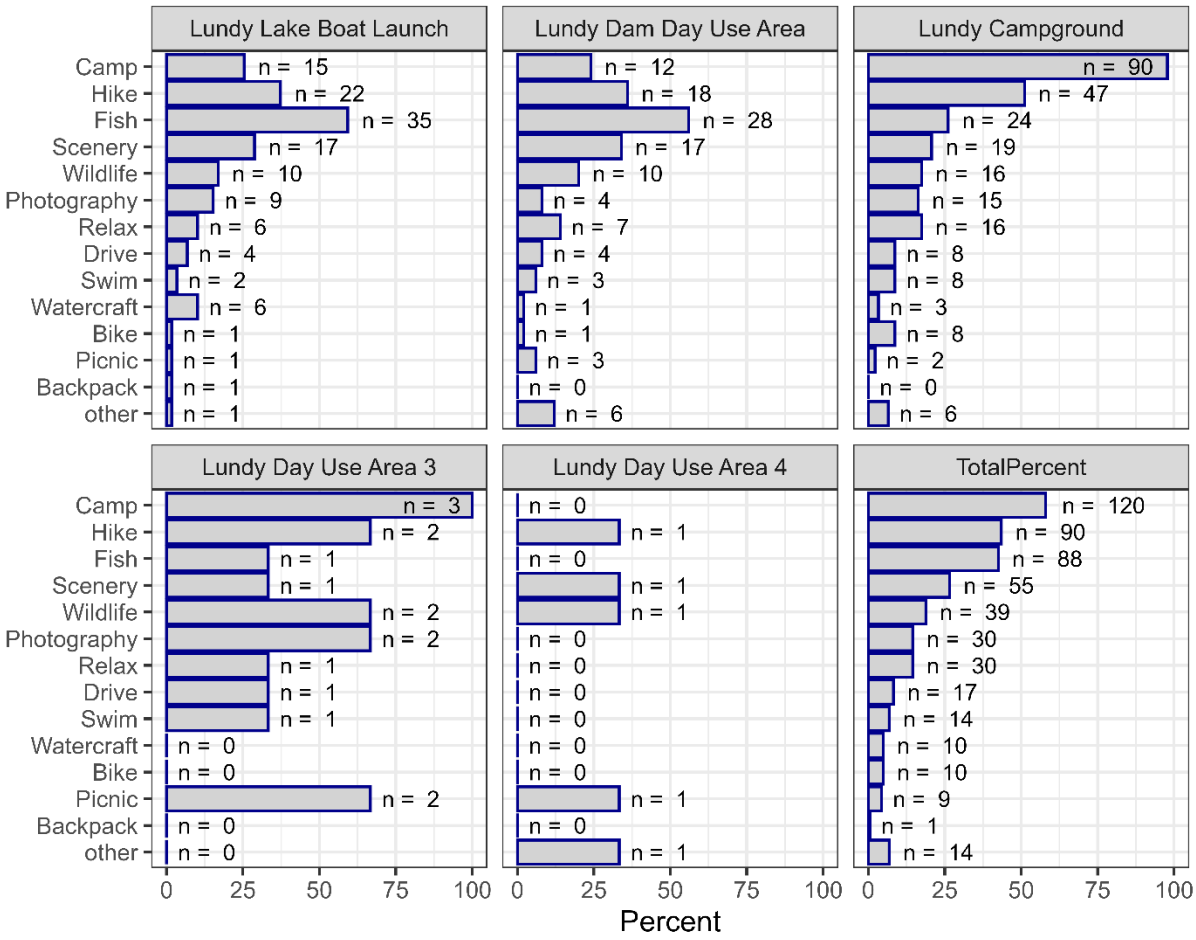


Figure 4.1-2. Percentage of Respondents Participating in Activities by Site.

Respondents were also asked to identify their primary recreation activity. Camping was the most frequently selected primary activity, reported by 33.3 percent of respondents (Table 4.1-6, Figure 4.1-3). The second-most common primary activity was fishing at 29 percent, followed by day hiking at 13 percent. Other primary activities included viewing scenery, relaxing, and several lower frequency activities such as scenic driving, photography, viewing wildlife, bicycling, picnicking, and swimming. “Other” primary activities accounted for 4.8 percent of responses and included skiing, snowboarding, foraging, hunting, and rock climbing.

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Table 4.1-6. Respondents Engaged in Primary Activity by Site

Activities	Number of Responses per Site[a]					Total Responses	
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3	Lundy Day Use Area 4	Count	Percent
Camping	7	7	52	3	0	69	33.3
Fishing	29	22	9	0	0	60	29
Day Hiking	4	8	14	0	1	27	13
Viewing Scenery	11	3	2	0	0	16	7.7
Relaxing	3	2	4	0	0	9	4.3
Scenic Driving	1	0	2	0	0	3	1.4
Photography	2	0	1	0	0	3	1.4
Viewing Wildlife	0	1	2	0	0	3	1.4
Bicycling	0	0	2	0	0	2	1
Picnicking	0	0	1	0	1	2	1
Swimming	0	2	0	0	0	2	1
Overnight Backpacking	1	0	0	0	0	1	0.5
Personal Watercraft Use	0	0	0	0	0	0	0
Other	1	5	3	0	1	10	4.8
Total[b]	59	50	92	3	3	207	100

Notes:
[a] There were no surveys completed at Lundy Day Use Area 1 and Lundy Day Use Area 2.
[b] Respondents were allowed to report multiple recreation activities. Therefore, totals represent the number of unique respondents surveyed at each site and are not equal to the sum of the activity counts reported within each column.

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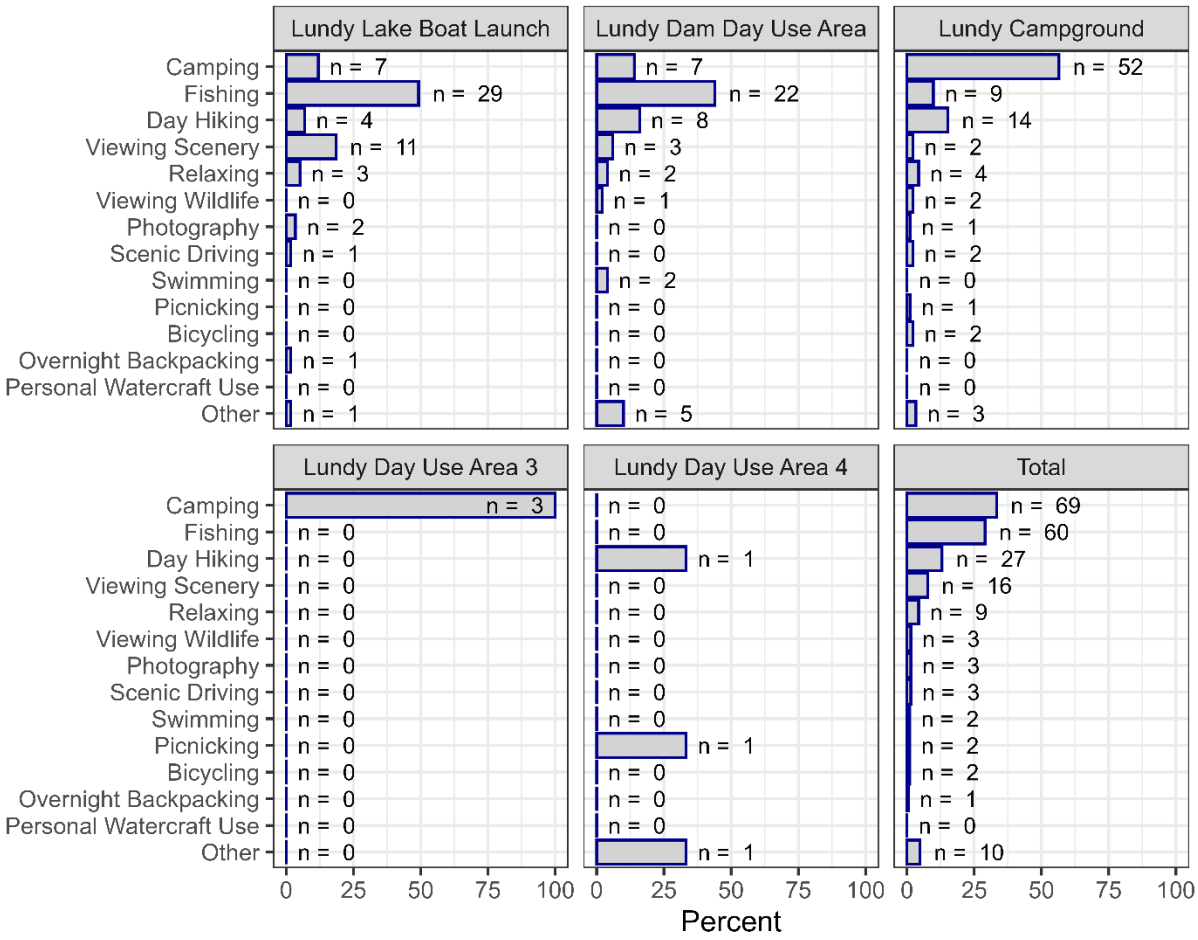


Figure 4.1-3. Percentage of Respondents Primary Activity by Site.

4.1.3. VISITOR PERCEPTIONS

Respondents were asked about their perception of crowdedness at the Lundy Project sites. Across all sites, the majority of respondents rated conditions as either not crowded or only slightly crowded, with 52.7 percent selecting “Low” (1) and 26.8 percent selecting “Somewhat Low” (2) (Table 4.1-7, Figure 4.1-4). Neutral crowding levels, represented by a rating of 3, were reported by 9.8 percent of respondents overall. Two specific locations, Lundy Campground (*n* = 91) and Lundy Day Use Area 4 (*n* = 3), had median ratings of 2. At these locations, a portion of respondents reported high crowding conditions; specifically, 12.1 percent and 4.4 percent of respondents at Lundy Campground selected rankings of “Somewhat High” (4) or “High” (5), while one respondent at Lundy Day Use Area 4 selected a rating of 4.

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Table 4.1-7. Percentage of Total Respondent Ratings (1-5) for Perceived Crowdedness

Site Name[a]	Total Responses	Median	1	2	3	4	5
			Low (1)	Somewhat Low (2)	Neutral (3)	Somewhat High (4)	High (5)
Lundy Lake Boat Launch	58	1	55.2	29.3	8.6	6.9	0
Lundy Dam Day Use Area	50	1	62	24	10	2	2
Lundy Campground	91	2	46.2	26.4	11	12.1	4.4
Lundy Day Use Area 3	3	1	66.7	33.3	0	0	0
Lundy Day Use Area 4	3	2	33.3	33.3	0	33.3	0
Total	205 [a]	1	52.7	26.8	9.8	8.3	2.4

Notes:
[a] There were no surveys completed at Lundy Day Use Area 1 and Lundy Day Use Area 2.

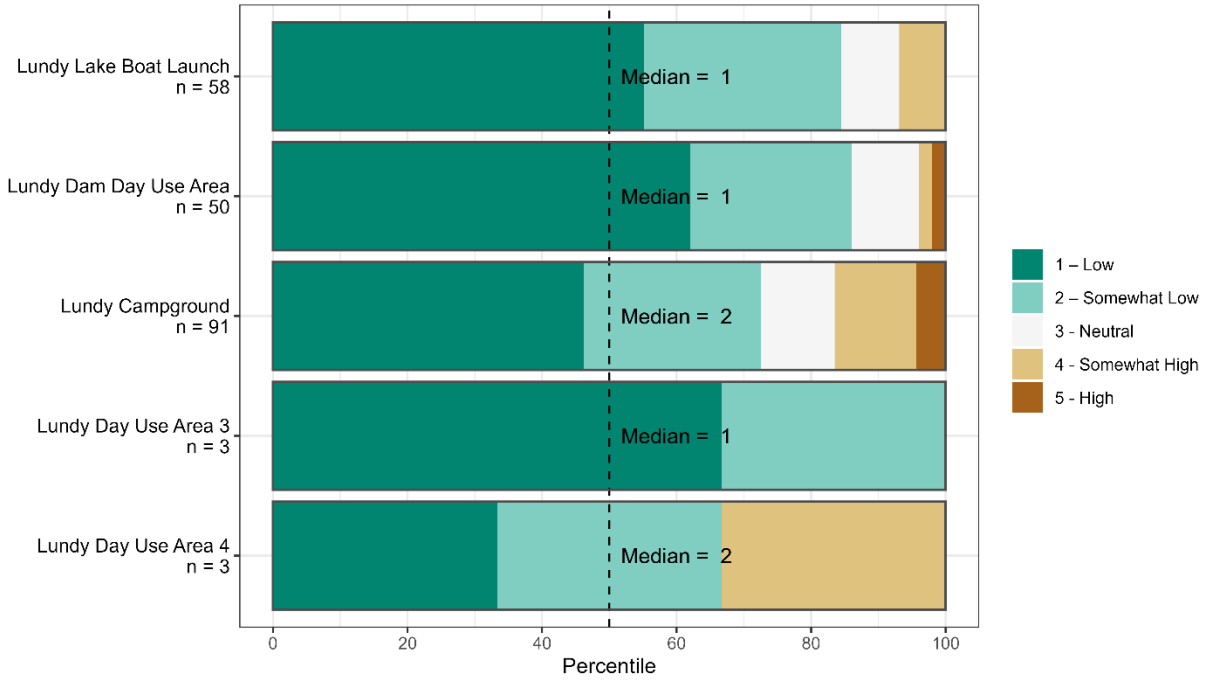


Figure 4.1-4. Perception of Crowdedness.

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Respondents were asked about their experience compared to their expectations of crowdedness at the Lundy Project sites. The majority of respondents reported that sites were less crowded than expected or slightly less crowded than expected, with 29.1 percent selecting “Less” (1) and 28.6 percent selecting “Slightly Less” (2) (Table 4.1-8, Figure 4.1-5). Neutral responses, indicating conditions were about as crowded as expected (3), were reported by 27.1 percent of respondents overall, followed by 10.3 percent reporting “Slightly More” crowding than expected (4), and 4.9 reporting “More” crowding than expected (5).

Table 4.1-8. Percentage of Respondent Ratings (1-5) for Expected Crowdedness

Site Name[a]	Total Responses	Median	1	2	3	4	5
			Less (1)	Slightly Less (2)	Neutral (3)	Slightly More (4)	More (5)
Lundy Lake Boat Launch	57	2	24.6	31.6	31.6	7	5.3
Lundy Dam Day Use Area	49	2	38.8	24.5	28.6	6.1	2
Lundy Campground	91	2	25.3	29.7	24.2	15.4	5.5
Lundy Day Use Area 3	3	2	33.3	33.3	33.3	0	0
Lundy Day Use Area 4	3	1	66.7	0	0	0	33.3
Total	203 [a]	2	29.1	28.6	27.1	10.3	4.9

Notes:
[a] There were no surveys completed at Lundy Day Use Area 1 and Lundy Day Use Area 2.

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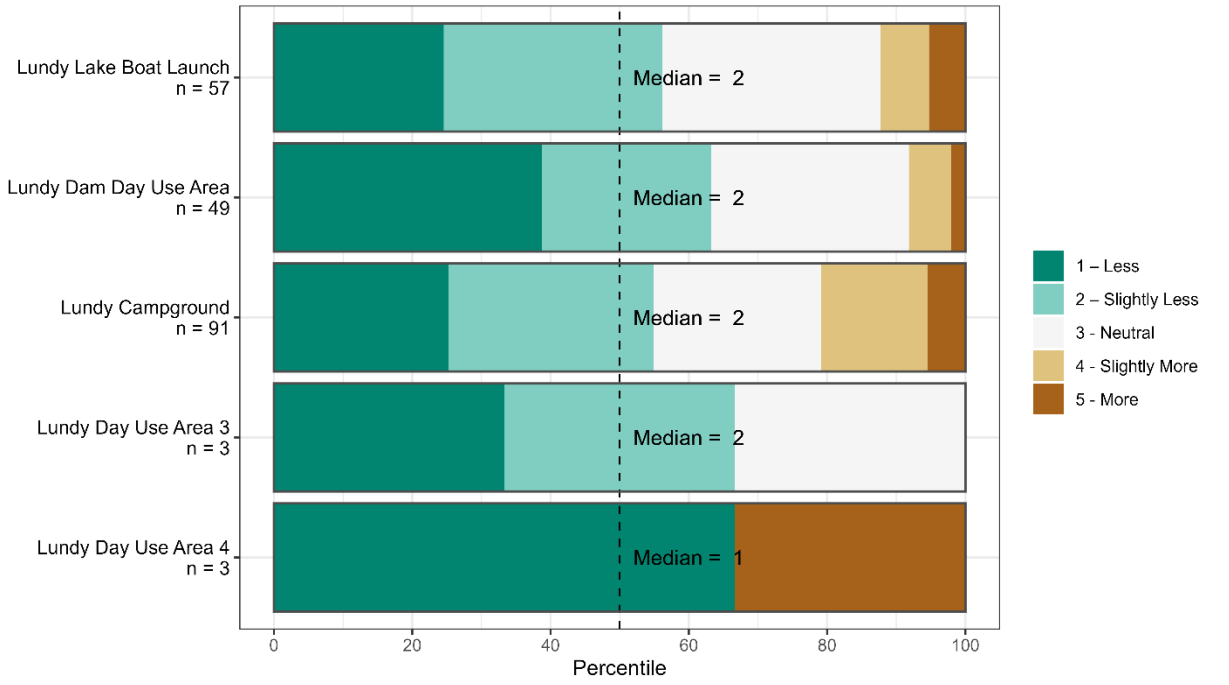


Figure 4.1-5. Expectation of Crowdedness.

Most respondents reported that they had not changed their use of the Lundy Project recreation areas due to crowding, with 85.5 percent selecting “No” across all sites (Table 4.1-9). A smaller proportion of respondents, totaling 12.6 percent, indicated that they had changed their visiting strategy in response to crowding, while 1.9 percent declined to answer. Lundy Campground had the greatest percentage of respondents reporting a change in visiting strategy, with 12 respondents, followed by Lundy Lake Boat Launch with seven respondents and Lundy Dam Day Use Area with six respondents.

Among the 26 respondents who reported changing their behavior due to crowding, the most commonly reported strategy was visiting a different site in the area, selected by 46.2 percent of respondents in this group (Table 4.1-10). Other reported strategies included visiting the area on days that avoid holidays, selected by 23.1 percent of respondents in this group, and visiting earlier in the morning, selected by 19.2 percent (Table 4.1-10). Fewer respondents reported shifting to weekday visits, reported by 7.7 percent of respondents in this group. “Other” strategies were reported by 15.4 percent of respondents in this group and included avoiding the area entirely, leaving the site without using it, and camping outside of the site. Respondents could select more than one strategy.

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Table 4.1-9. Respondents Reporting They Had Ever Changed Their Visit Due to Crowdedness

Response	Number of Responses per Site					Total Count	Total Percent
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3	Lundy Day Use Area 4		
No	51	42	79	2	3	177	85.5
Yes	7	6	12	1	0	26	12.6
Declined	1	2	1	0	0	4	1.9
Total Count	59	50	92	3	3	207	100

Notes:
[a] There were no surveys completed at Lundy Day Use Area 1 and Lundy Day Use Area 2.

Table 4.1-10. Respondents' Change of Visiting Strategy Due to Crowding at the Project

Response	Number of Responses per Site[a]					Total Responses[b]	
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3	Lundy Day Use Area 4	Count	Percent
Visit a different site in the area	4	1	7	0	0	12	46.2
Visit the area on days to avoid holidays	2	3	0	1	0	6	23.1
Visit earlier in the morning	1	4	0	0	0	5	19.2
Visit the area during weekdays	1	0	1	0	0	2	7.7
Other	0	0	4	0	0	4	15.4
Total Count[c]	7	6	12	1	0	26	

Notes:
[a] There were no surveys completed at Lundy Day Use Area 1 and Lundy Day Use Area 2.
[b] Respondents could select more than one strategy.
[c] Total count represents the number of unique respondents surveyed at each site and is not equal to the sum of the counts reported within each column.

Across all facility types, most respondents indicated that the current number of facilities were "Just Right," resulting in median ratings of 3 for every category (Table 4.1-11, Figure

4.1-6). The proportions of respondents selecting the "Just Right" designation were consistently high across all facility types, including 94.3 percent for available recreation sites, 88.9 percent for parking, 93.6 percent for picnic or day use areas, 89.7 percent for boat launches, and 85.2 percent for campsites. A small number of respondents (3.1 percent) indicated that certain facilities were lacking; for instance, 17.2 percent rated signage as "Somewhat Low," and 11.3 percent rated the number of campsites as "Somewhat Low." Ratings of "Somewhat High" or "Too Many" were rare across all facility categories, suggesting limited concern regarding an excessive number of facilities.

Table 4.1-11. Percentage of Respondent Ratings (1-5) for the Number of Existing Recreation Facilities

Facility	Count	Median	1	2	3	4	5
			Too Low	Somewhat Low	Just Right	Somewhat High	Too Many
Publicly Available Recreation Sites	193	3	2.1	2.1	94.3	1	0.5
Restrooms	183	3	4.9	9.8	84.7	0.5	0
Parking	199	3	0.5	10.6	88.9	0	0
Picnic or Day Use Areas	109	3	0.9	4.6	93.6	0	0.9
Boat Launches	68	3	4.4	2.9	89.7	0	2.9
Campsites	142	3	2.1	11.3	85.2	0	1.4
Signage	198	3	6.6	17.2	74.7	1	0.5

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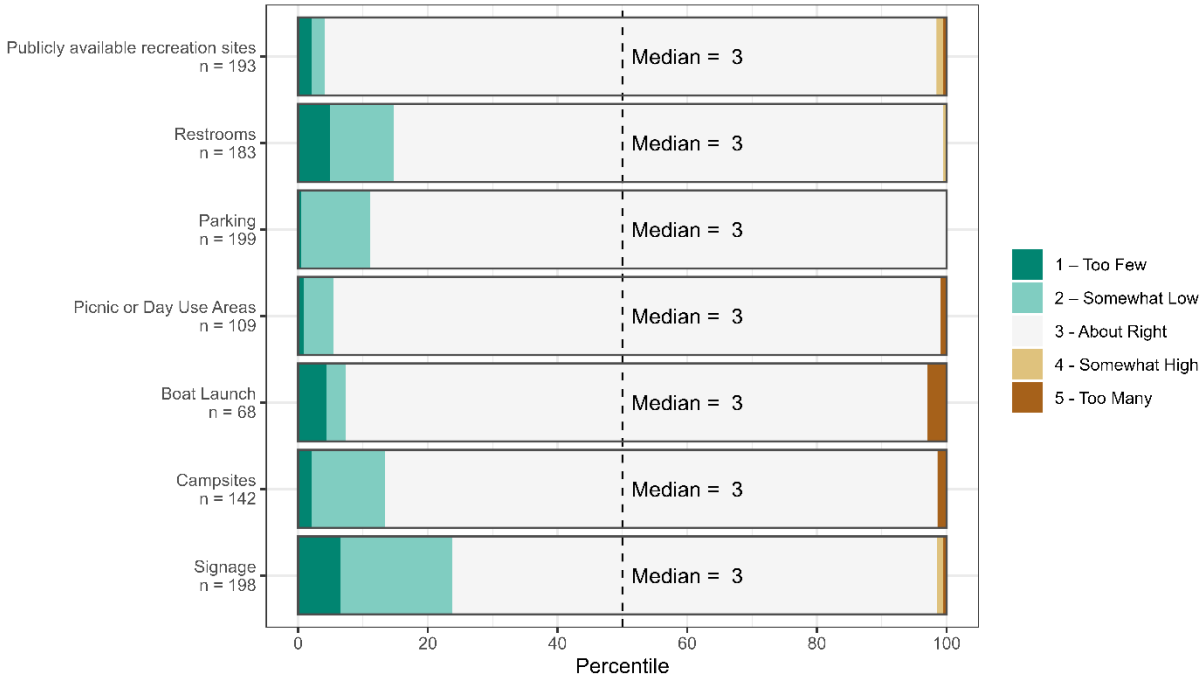


Figure 4.1-6. Perception of Number of Existing Recreation Facilities.

Across all facility types, most respondents rated conditions as good or excellent, with every category receiving a median rating of 4 (Table 4.1-12, Figure 4.1-7). The proportion of “Good” ratings remained consistently high across all facilities, including 71.2 percent for available recreation sites, 61.8 percent for restrooms, 61 percent for parking, 64.8 percent for picnic or day use areas, 58 percent for boat launches, and 61.9 percent for campsites. “Excellent” ratings were also frequently reported, particularly for campsites, boat launches, and picnic or day use areas. Lower ratings of “Poor” or “Fair” were reported infrequently, with no facility receiving more than a 7.1 percent in these categories. While signage received the highest share of neutral ratings at 27.3 percent, the majority of respondents rated it as “Good” at 54.5 percent.

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Table 4.1-12. Percentage of Respondent Ratings (1-5) for the Condition of Existing Recreation Facilities

Facility	Count	Median	1 Poor	2 Fair	3 Neutral	4 Good	5 Excellent
Publicly Available Recreation Sites	191	4	0	2.6	12.6	71.2	13.6
Restrooms	165	4	1.8	6.1	16.4	61.8	13.9
Parking	200	4	0.5	2	23	61	13.5
Picnic or Day Use Areas	108	4	0.9	3.7	13	64.8	17.6
Boat Launches	69	4	4.3	2.9	14.5	58	20.3
Campsites	139	4	1.4	4.3	9.4	61.9	23
Signage	198	4	3	7.1	27.3	54.5	8.1

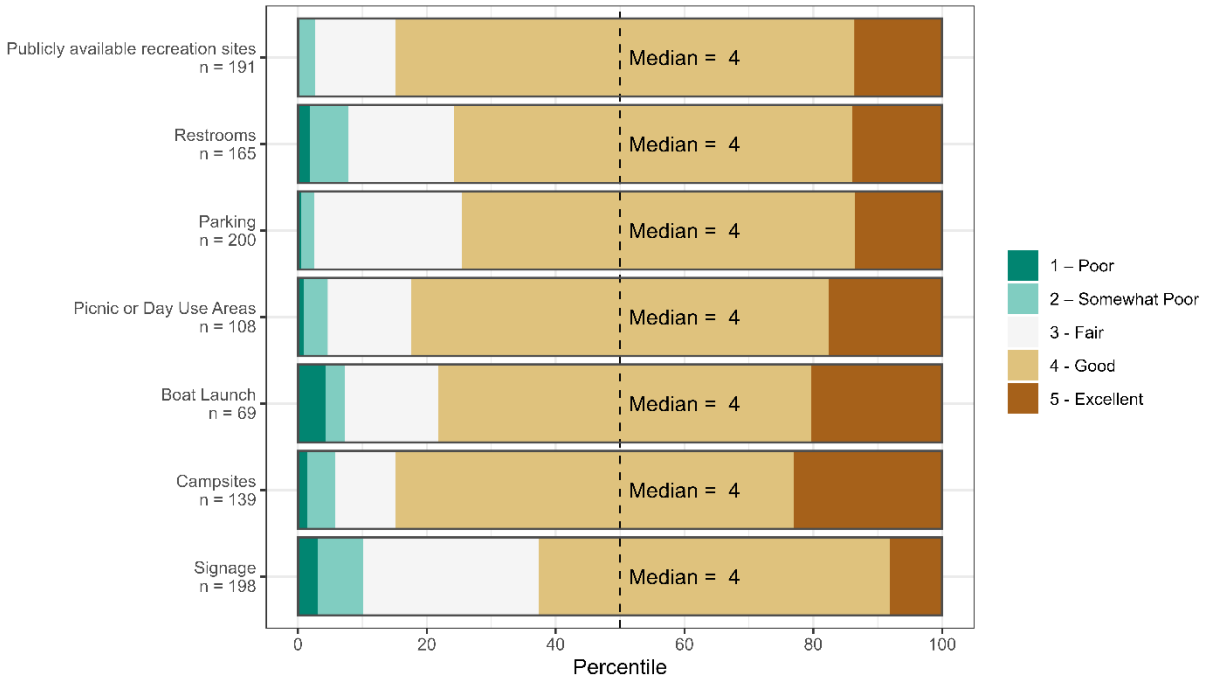


Figure 4.1-7. Perception of Condition of Existing Recreation Facilities.

4.1.4. Responses to Angling-Related Questions

Angling-related survey questions were administered to respondents who identified fishing as either an activity they participated in and/or as their primary activity. A total of 88 respondents completed this portion of the survey, including: Lundy Lake Boat Launch with 35 respondents, Lundy Dam Day Use Area with 28 respondents, Lundy Campground with 24 respondents, and Lundy Day Use Area 3 with 1 respondent.

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For the 88 respondents who provided responses to the angling-related questions, the median number of reported anglers per group was 2 at each site. The average number of anglers per group varied by location, ranging from 2 per group at Lundy Campground and Lundy Day Use Area 3, to 4.2 per group at Lundy Lake Boat Launch. The average was higher at this site because there were some larger groups (up to 32 anglers per group).

At each site, rainbow trout was identified as the most common primary target species, reported by 84.1 percent of the total respondents, followed by brown trout at 6.8 percent and brook trout at 5.7 percent (Table 4.1-13). The three respondents who selected "Other" for their primary target species specified their targets as "Golden," "Trophy," and "Whatever Bites." Per the survey design, respondents were permitted to select only one primary target species.

Across all sites combined, a similar number of respondents said that brook trout (54.5 percent) and brown trout (53.4 percent) were their secondary target species, and 8 percent of respondents said that rainbow trout was a secondary target (Table 4.1-14). Approximately 34 percent of respondents indicated they did not have a secondary target species. The single respondent who selected "Other" specified "Cutthroat" as their secondary target. Because respondents were permitted to select multiple secondary targets, the total percentage exceeds 100 percent as shown in Table 4.1-14.

Table 4.1-13. Primary Targeted Species by Respondents

Primary Target Species	Number of Responses per Site[a]				Total Count	Total Percent
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3		
Rainbow Trout	30	23	20	1	74	84.1
Brown Trout	3	1	2	0	6	6.8
Brook Trout	0	3	2	0	5	5.7
Other	2	1	0	0	3	3.4

Notes:
[a] There were no angler survey questions completed at Lundy Day Use Area 1, Lundy Day Use Area 2, and Lundy Day Use Area 4.

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Table 4.1-14. Secondary Targeted Species by Respondents

Secondary Target Species	Number of Responses per Site[a]				Total Count	Total Percent
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3		
Brook Trout	18	14	15	1	48	54.5
Brown Trout	16	14	16	1	47	53.4
None	15	10	5	0	30	34.1
Rainbow Trout	3	1	3	0	7	8
Other	1	0	0	0	1	1.1

Notes:
[a] There were no angler survey questions completed at Lundy Day Use Area 1, Lundy Day Use Area 2, and Lundy Day Use Area 4.

Most respondents at the Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Campground were returning visitors, with 80 to 87.5 percent reporting they had previously visited the location for fishing. The single visitor at Lundy Day Use Area 3 also reported having fished at that location previously. For all sites combined, 15.9 percent of survey respondents were first-time visitors for fishing, while the majority reported visiting on a regular basis, either once per year or between two to five times per year (Figure 4.1-8).

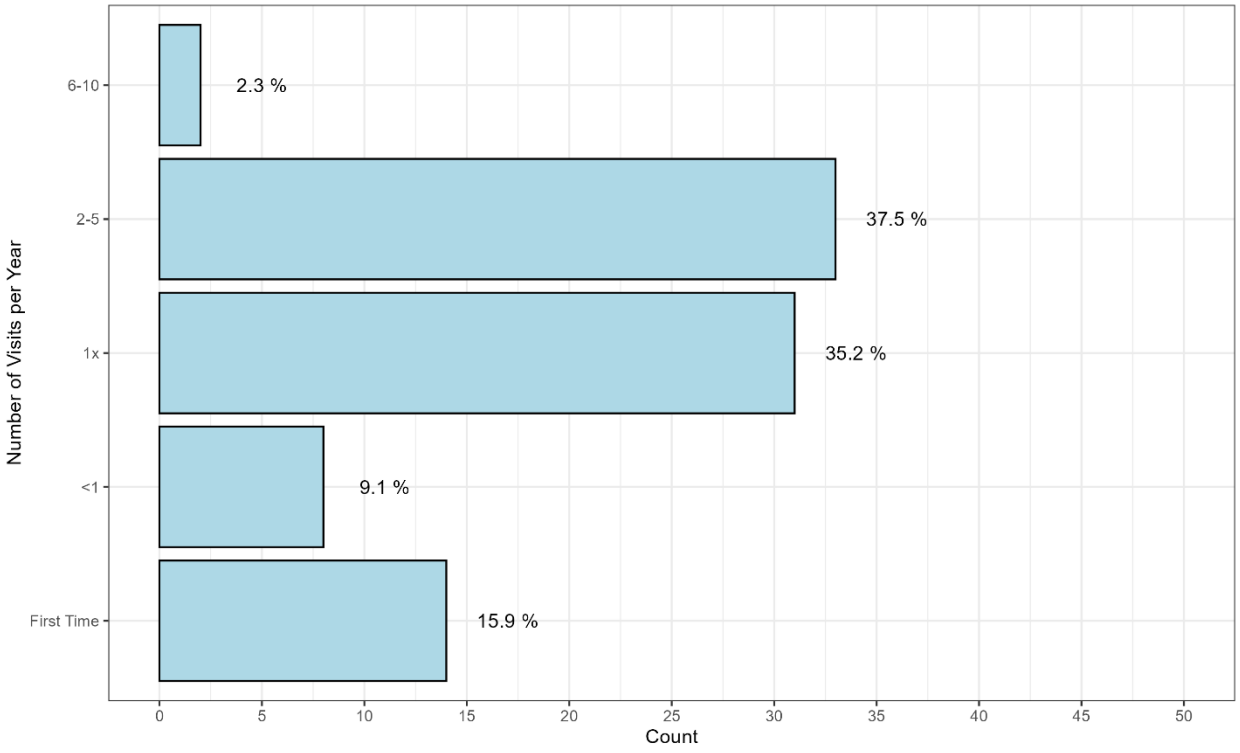


Figure 4.1-8. Number of Visits Per Year for Fishing.

Respondents were asked about nearby locations they also accessed for fishing, with common responses being Saddlebag Lake, Tioga Lake, Lee Vining Creek, and Ellery Lake; however, most respondents selected the "Other" category, which encompassed 18 alternative locations. Most frequently cited alternative locations included Virginia Lakes (17), Convict Lake (7), and June Lake (7).

Respondents were asked how they define fishing quality, and they could choose multiple responses (Table 4.1-15). The most common responses to how fishing quality is defined were catch rate (selected by 60.2 percent of angling-related question respondents), natural setting (46.6 percent), and fish species/size (38.6 percent). The five "Other" responses included "Quantity," "Thrill," and "Wild fish."

Table 4.1-15. Visitor Responses to How Fishing Quality Is Defined

Fishing Quality	Number of Responses per Site[a]				Total Count	Total Percent
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 3		
Catch Rate	19	18	16	0	53	60.2
Natural Setting	13	11	17	0	41	46.6
Fish Species/Size	17	11	5	1	34	38.6
Solitude	9	8	9	0	26	29.5
Water Access Proximity	13	5	3	0	21	23.9
Park Amenities	3	3	0	0	6	6.8
Other	1	4	0	0	5	5.7
Declined	1	0	0	0	1	1.1

Notes:
[a] There were no angler survey questions completed at Lundy Day Use Area 1, Lundy Day Use Area 2, and Lundy Day Use Area 4.

Respondents were asked about fishing quality compared to other nearby locations they have fished. A total of 60 respondents agreed to answer this question, and 28 declined to answer. The median rating at Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Campground was 4, signifying that fishing quality at these locations was perceived as "Slightly Better" or "Much Better" than at other nearby areas by most respondents (Figure 4.1-9). The single respondent at Lundy Day Use Area 3 provided a neutral rating of 3. Overall, between approximately 52 and 62 percent of respondents at Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Campground rated the fishing quality as either "Slightly Better" or "Much Better" than other nearby locations.

Regarding how current fishing quality compares to past experiences at the same site, 61 respondents provided data while 27 declined to answer. The median rating across all sites was 3, indicating that fishing quality was perceived as being better or worse than in previous years by roughly equal numbers of respondents (Figure 4.1-10). The proportion

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of respondents who felt fishing quality was “Slightly Worse” or “Much Worse” was balanced by those who indicated it was “Slightly Better” or “Much Better.”

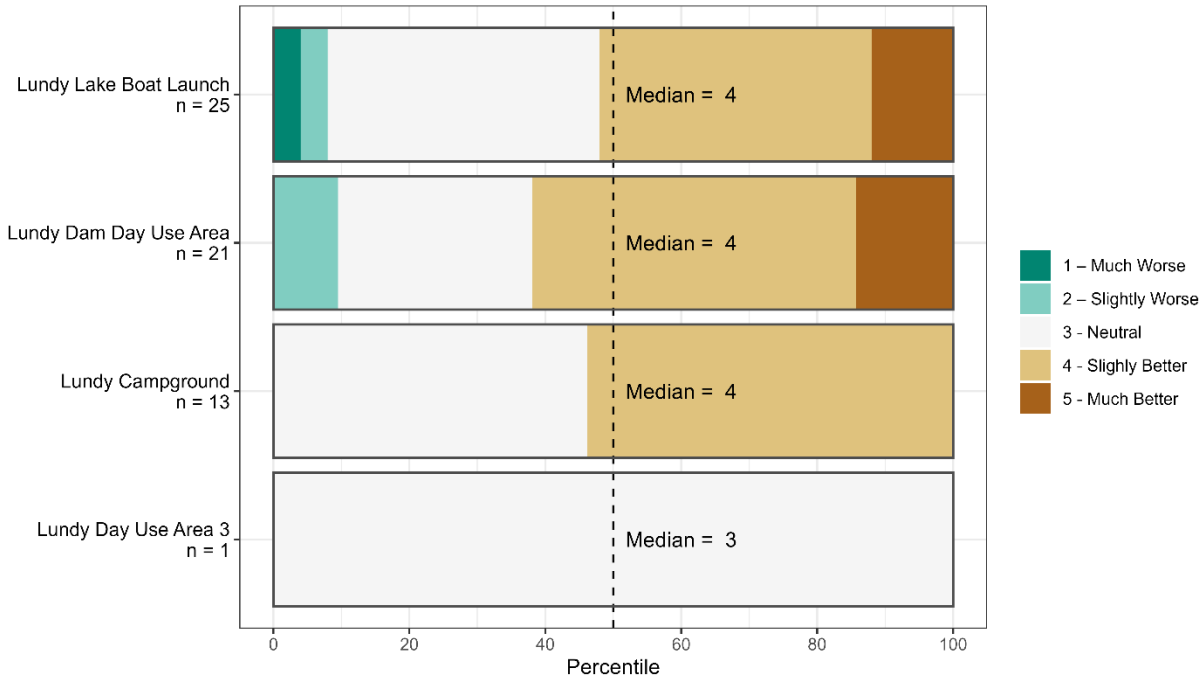


Figure 4.1-9. Visitor Opinions Comparing Fishing Quality to Other Sites.

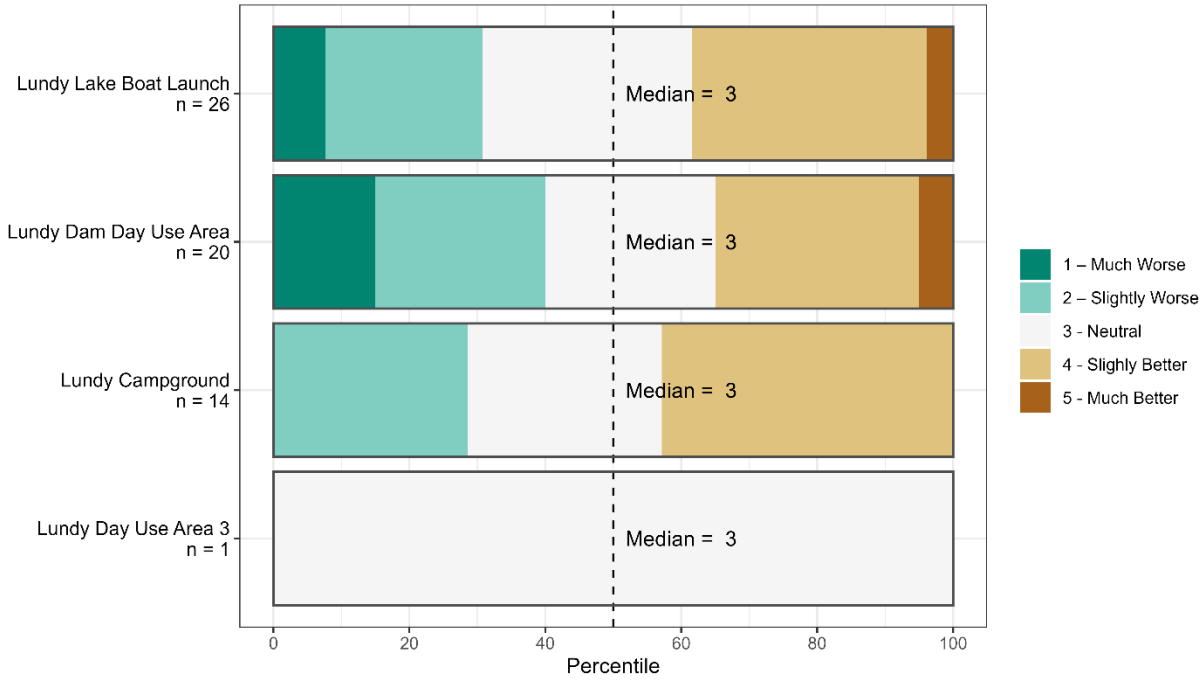


Figure 4.1-10. Visitor Opinions Comparing Fishing Quality to Previous Site Visits.

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Anglers who reported that they had been fishing for more than 0.5 hour were asked detailed catch and harvest questions, which included 66 of the 88 angler surveys. Figure 4.1-11 presents the reported counts of rainbow, brook, and brown trout caught by length and size; notably, no other species were reported. Lundy Lake Boat Launch and Lundy Dam Day Use Area are categorized as Lundy Lake, while Lundy Campground and Lundy Day Use Area 3 represent Mill Creek.

At Lundy Lake, anglers reported catching primarily rainbow trout, with much smaller numbers of brown trout and brook trout. Rainbow trout captures were reported across nearly all length categories, with the 12- to 14-inch range reported most frequently. The two brook trout captured were reported to be less than 8 inches, while the two brown trout captured were reported to be less than 8 inches and 9 inches. At Mill Creek, rainbow trout were also the most common reported species caught, followed by brook trout and brown trout. Reported rainbow trout lengths ranged from less than 8 to 16 inches, with 9, 10, and 12 inches being the most frequent (Figure 4.1-12). Reported brook trout lengths ranged from 9 to 12 inches, while six out of the eight brown trout caught were reported to be 12 inches.

Regarding harvest and release data, all brook and brown trout at Lundy Lake were reported to have been released, along with 70.3 percent of the rainbow trout. In contrast, reported release rates at Mill Creek were lower, at 45 percent for rainbow trout, 37.5 percent for brown trout, and 11.1 percent for brook trout.

CPUE was calculated for all fish species combined at each site. At Lundy Lake, 51 of the 63 fishing survey respondents reported fishing for more than 0.5 hour. The CPUE was estimated by dividing the 78 total reported fish caught by the total reported fishing hours of these surveyed groups, resulting in 0.63 fish per hour. Using the same methodology for the 15 out of 25 respondents at Mill Creek who fished more than 0.5 hour, the CPUE was determined to be 0.50 fish per hour.

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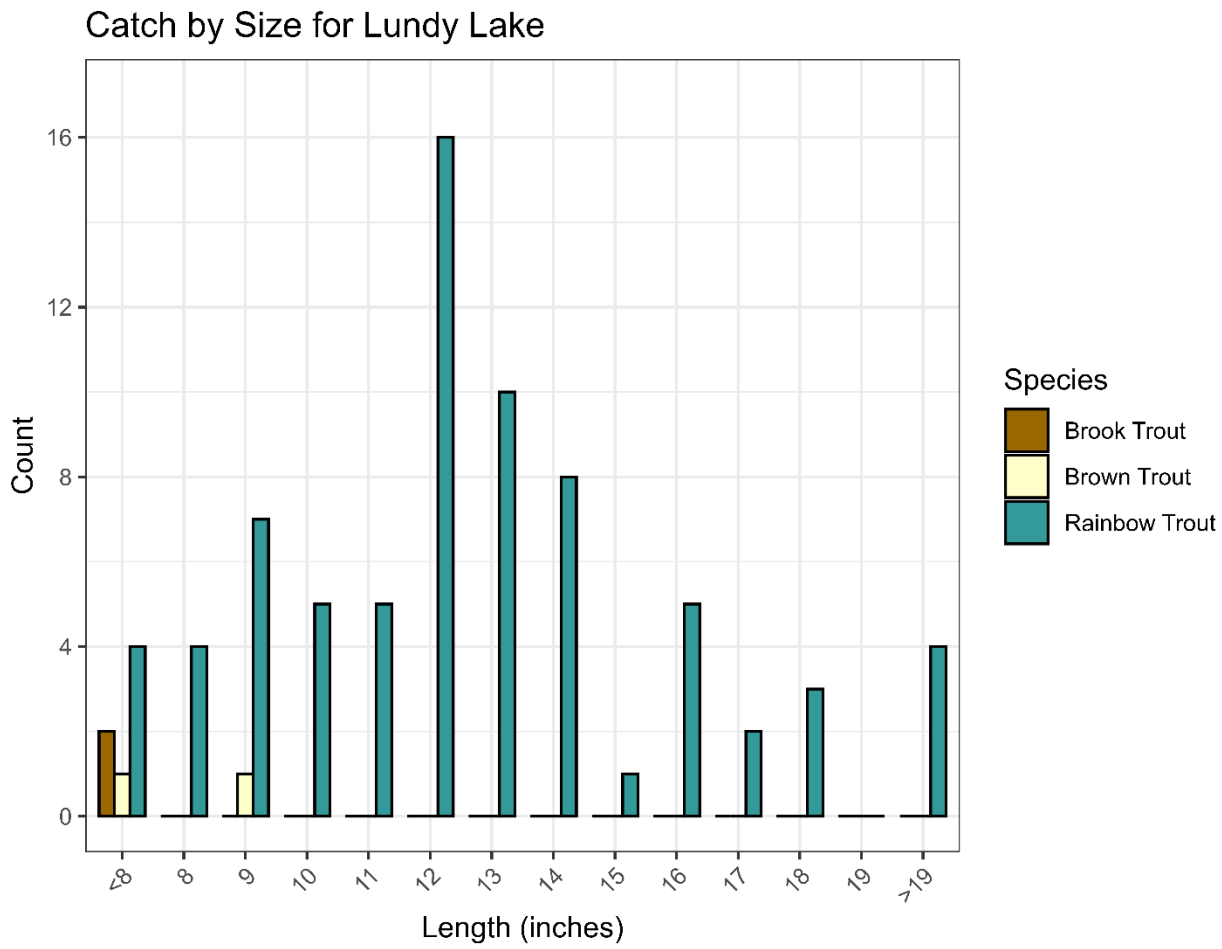


Figure 4.1-11. Length by Species for Lundy Lake.

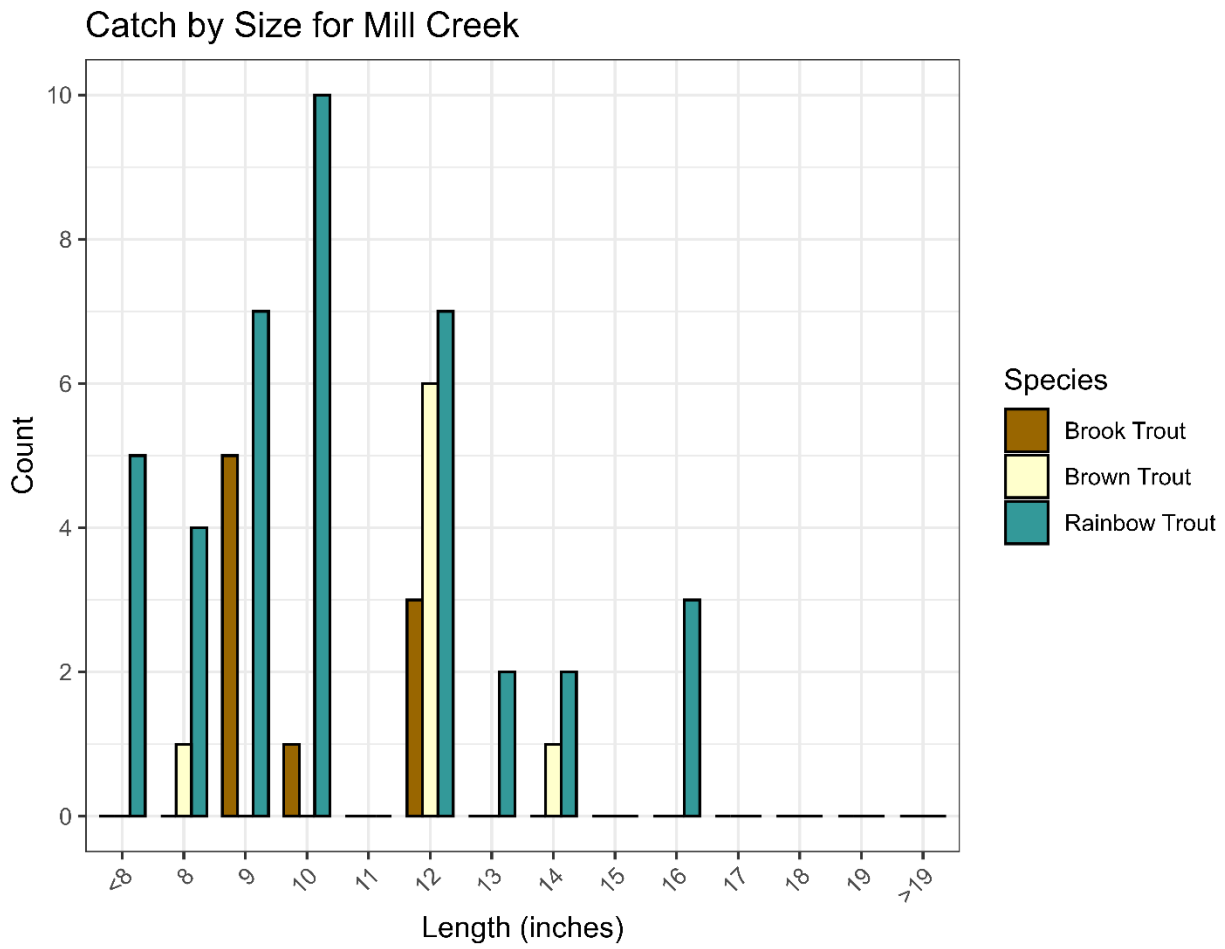


Figure 4.1-12. Length by Species for Mill Creek.

4.2. SPOT COUNTS

Table 4.2-1 presents the total number of vehicles counted at each FERC-approved recreation site during the 35 spot counts. (Note: vehicles were not counted at Lundy Campground. Campground use information for total sites occupied was collected by Mono County. See Section 4.3.3.) Between April 15, 2025, and November 15, 2025, a total of 239 vehicles were observed during the spot counts, with non-peak weekends accounting for 116 of those vehicles, followed by weekdays at 74 vehicles. Lundy Lake Boat Launch had a total of 105 vehicles counted, of which 6 had a trailer. The Lundy Dam Day Use Area had 120 vehicles counted. A combined total of 14 vehicles were observed at the other four day use areas during the entire study period.

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Table 4.2-1. Vehicle Spot Counts at FERC-approved Recreation Sites

Date	Day Type	Site Name						Total Vehicles
		Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Area 1	Lundy Day Use Area 2	Lundy Day Use Area 3	Lundy Day Use Area 4	
4/19/2025	Non-Peak Weekend	3	7	0	0	0	0	10
4/24/2025	Weekday	0	0	0	0	0	0	0
4/27/2025	Non-Peak Weekend	0	5	0	0	0	0	5
5/8/2025	Weekday	0	1	0	0	0	0	1
5/10/2025	Non-Peak Weekend	1	4	1	0	0	0	6
5/21/2025	Weekday	1	3	0	0	1	0	5
5/31/2025	Non-Peak Weekend	4	8	0	0	0	0	12
6/5/2025	Weekday	2	1	0	0	0	1	4
6/8/2025	Non-Peak Weekend	4	0	0	0	0	0	4
6/18/2025	Weekday	6	4	0	0	1	0	11
6/21/2025	Peak Weekend	6	2	0	0	0	0	8
6/28/2025	Non-Peak Weekend	6	2	0	0	0	0	8
7/2/2025	Weekday	6	4	0	0	0	0	10
7/5/2025	Peak Weekend	14	12	0	0	0	1	27
7/17/2025	Weekday	5	3	0	0	0	0	8
7/27/2025	Non-Peak Weekend	0	4	1	0	0	0	5
7/30/2025	Weekday	4	1	0	0	0	1	6
8/2/2025	Non-Peak Weekend	2	8	1	0	n/a[A]	0	11
8/9/2025	Non-Peak Weekend	4	7	0	0	1	0	12
8/12/2025	Weekday	0	1	0	0	0	0	1
8/17/2025	Non-Peak Weekend	0	9	0	0	0	0	9
8/26/2025	Weekday	3	2	0	0	0	0	5
8/31/2025	Peak Weekend	5	7	1	0	1	0	14
9/7/2025	Non-Peak Weekend	3	2	1	0	0	0	6

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Date	Day Type	Site Name						Total Vehicles
		Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Area 1	Lundy Day Use Area 2	Lundy Day Use Area 3	Lundy Day Use Area 4	
9/9/2025	Weekday	0	0	0	0	0	0	0
9/20/2025	Non-Peak Weekend	4	3	0	0	0	0	7
9/23/2025	Weekday	0	5	0	0	0	0	5
9/28/2025	Non-Peak Weekend	0	2	0	0	0	0	2
10/6/2025	Weekday	6	7	0	0	0	1	14
10/12/2025	Non-Peak Weekend	9	4	0	1	0	0	14
10/17/2025	Weekday	2	1	0	0	0	0	3
10/25/2025	Non-Peak Weekend	4	0	0	0	0	0	4
10/31/2025	Weekday	1	0	0	0	0	0	1
11/2/2025	Non-Peak Weekend	0	1	0	0	0	0	1
11/13/2025	Weekday	0	0	0	0	0	0	0
	Total Vehicles	**105**	**120**	**5**	**1**	**4**	**4**	**239**

Notes:

[A] Data were not collected at this site due to an inadvertent error in which the surveyor confused site locations and, as a result, missed the scheduled survey time and location.

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SCE also collected data on the number of people and types of recreation activities observed during spot counts throughout the study season. Table 4.2-2 summarizes the number of people observed during the 35 spot count days at the FERC-approved recreation sites. A total of 590 people were observed at the FERC-approved recreation sites. Of those, the most popular activities observed were camping and fishing. Activities listed as “Other” included skiing and children playing on the beach.

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Table 4.2-2. Spot Count Observed Visitor and Recreation Activities at FERC-approved Recreation Sites

Recreation Type	Number of Visitors Observed							Total People	Total Percentage (%)
	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Campground	Lundy Day Use Area 1	Lundy Day Use Area 2	Lundy Day Use Area 3	Lundy Day Use Area 4		
Camping	1	0	295	0	0	1	0	297	50.3
Fishing	78	58	1	0	0	0	0	137	23.2
Viewing Scenery or Wildlife	18	16	14	1	2	0	0	51	8.6
Day Hiking	15	9	4	0	0	0	0	28	4.8
Personal Watercraft Use	19	2	2	0	0	0	0	23	3.9
Picnicking	3	0	7	5	0	3	2	20	3.4
Other Activity	13	4	0	0	0	0	0	17	2.9
Non-Recreation Activity	5	1	0	0	0	1	0	7	1.2
Swimming	4	0	0	2	0	0	0	6	1.0
Bicycling	3	0	0	0	0	0	0	3	0.5
Photography	1	0	0	0	0	0	0	1	0.2
Overnight Backpacking	0	0	0	0	0	0	0	0	0
Total People	160	90	323	8	2	5	2	590	100

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4.3. CURRENT RECREATION USE AND DENSITY ESTIMATES

Recreation use and parking utilization at the FERC-approved recreation sites were estimated using a combination of recreation use visitor intercept survey data and spot count observations conducted during the study period. Recreation use estimates were calculated in terms of recreation days, where 1 recreation day represents one person visiting a site for any portion of a 24-hour period.

4.3.1. RECREATION USE

Recreation days were estimated separately for day use sites—Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Day Use Areas 1 through 4—and the overnight site—Lundy Campground—due to differences in how recreation use occurs and was measured at these locations.

Recreation use at Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Day Use Areas 1, 2, 3, and 4 generally consists of short duration visits with turnover throughout the day. As such, recreation days were estimated based on observed vehicles, visitor group sizes, and average length of stay, which accounts for turnover in site use over the course of the day. Observed use at Lundy Day Use Areas 1, 2, 3, and 4 was low, with vehicle counts ranging from 0 to 1 during spot counts and zero vehicles observed on some sampling days. The spot count data for these four sites were combined for estimating recreation days. No visitor surveys were completed at Lundy Day Use Areas 1 or 2, three surveys were completed at Lundy Day Use Area 3, and three surveys were completed at Lundy Day Use Area 4; thus, a total of six visitor surveys were completed among Lundy Day Use Areas 1 through 4. At the Lundy Dam Day Use Area, 50 visitor surveys were completed. The visitor survey results were combined for the Lundy Dam Day Use Area, Lundy Day Use Area 3, and Lundy Day Use Area 4 for estimating recreation days because they support similar uses.

The estimated recreation days by day type for Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Day Use Areas 1 through 4 are shown in Table 4.3-1. During the study period, total recreation use at these sites was estimated at 13,179 recreation days.

Table 4.3-1. Estimated Recreation Day Use for Lundy Lake, Lundy Dam Day Use Area, and Lundy Day Use Areas 1-4

Day Type	Count	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Areas 1-4	Total
Weekday	150	4,300	3,200	480	7,980
Non-Peak Weekend	53	2,000	1,400	130	3,530
Peak Weekend	12	1,200	410	59	1,669
Total		7,500	5,010	669	13,179

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Recreation use was highest on weekdays (7,980 recreation days), followed by non-peak weekends (3,530 recreation days), and peak weekends (1,669 recreation days). Among the sites listed above, use was highest at the Lundy Lake Boat Launch (7,500 recreation days) and the Lundy Dam Day Use Area (5,010 recreation days), while the combined Lundy Day Use Areas 1 through 4 accounted for 669 recreation days.

The estimated recreation days for the Lundy Campground are shown in Table 4.3-2. During the study period, total campground use was estimated at approximately 5,070 recreation days.

Table 4.3-2. Estimated Recreation Day Use for Lundy Campground

Day Type	Count	Recreation Days
Weekday	150	3,000
Non-Peak Weekend	53	1,400
Peak Weekend	12	670
Total		5,070

Recreation use at Lundy Campground was highest on weekdays (3,000 recreation days), followed by non-peak weekends (1,400 recreation days), and peak weekends (670 recreation days).

4.3.2. PARKING UTILIZATION

The average parking utilization, defined as the percentage of parking capacity occupied, was estimated by site and day type (Table 4.3-3).

Table 4.3-3. Average Parking Utilization

Site Name	Parking Spaces	Average Utilization (%)		
		Non-Peak Weekend	Peak Weekend	Weekday
Lundy Lake Boat Launch	5	55	167	45
Lundy Dam Day Use Area	20	21	35	10
Lundy Day Use Area 1	1	25	33	0
Lundy Day Use Area 2	3	2	0	0
Lundy Day Use Area 3	4	2	8	3
Lundy Day Use Area 4	3	0	11	6

At the Lundy Lake Boat Launch, which has an estimated capacity of five spaces for vehicles with trailers based on the REC-2 inventory study, average utilization was highest on peak weekend days at 167 percent (range 100-280 percent), followed by 55 percent on non-peak weekend days and 45 percent on weekdays.

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All peak weekend spot counts included at least five vehicles at the Lundy Lake Boat Launch, including 14 vehicles on July 5. Although the capacity at the Lundy Lake Boat Launch is five spaces designed specifically for vehicles with trailers, these peak-weekend counts included visitors parking multiple cars without trailers in these trailer-only spaces and cars parked along the lakeshore outside of marked areas.

At the Lundy Dam Day Use Area and Lundy Day Use Areas 1 through 4, the average parking utilization was also highest on peak weekends, followed by non-peak weekends, and was lowest on weekdays. Average peak weekend utilization ranged between 0 and 35 percent, with the highest occupancy occurring at the Lundy Dam Day Use Area. Non-peak weekend utilization ranged from 0 to 25 percent, peaking at Lundy Day Use Area 1, while weekday utilization ranged from 0 to 10 percent, with the highest levels again at the Lundy Dam Day Use Area. Parking utilization across these sites remained below total capacity throughout the study period.

4.3.3. CAMPGROUND UTILIZATION

4.3.3.1. Spot Count Estimates

Campground utilization represents the percentage of the 38 available campsites occupied during each observation period. Consistent with the Revised Study Plan, for Lundy Campground, “spot counts” refer to counts of occupied campsites, rather than counts of parked vehicles.

Across all spot count dates, campground utilization remained below capacity, ranging from approximately 0 to 87 percent. On non-peak weekends, observed occupancy fluctuated from 0 to 87 percent, reaching its highest level on October 12, 2025, with 33 of 38 sites occupied.

During peak weekends, utilization ranged from approximately 37 to 76 percent. The highest utilization for this day type occurred on June 21, 2025, the weekend following Juneteenth, when 29 of 38 sites were occupied. Weekday utilization ranged from 0 to 63 percent, peaking on July 17, 2025, with 24 of 38 sites in use. Average utilization was highest on peak weekends at 56 percent, followed by non-peak weekends at 34 percent, and was lowest on weekdays at 30 percent.

4.3.3.2. Mono County Data Estimates

Mono County provided Lundy Campground payment-envelope data collected approximately weekly for the 2022–2025 seasons. The envelopes typically recorded site number, number of camping days paid, and amount paid; however, the data did not consistently identify the actual dates of overnight stays. Therefore, these data were used to characterize overall paid camping use at Lundy Campground by season, rather than to estimate daily campground occupancy or utilization. Campground utilization for the roughly weekly time periods between envelope collection dates in each season were also summarized. These estimates are very imprecise for individual weeks because they are based on time of payment rather than on time of camping. However, they can be used to review the general utilization trends during the season.

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Average campground utilization was estimated for each season by dividing the total number of paid camping days by the maximum possible occupancy for the available season period. Maximum possible occupancy was calculated as 38 sites multiplied by the number of days in each season. Estimated average utilization ranged from 39 to 56 percent from 2022 and 2025 (Table 4.3-4). The highest estimated average utilization occurred in 2023 at 56 percent; however, the 2023 season was the shortest period summarized, extending from June 23 to August 22, and may reflect a higher use portion of the camping season. Average estimated utilization was 44 percent in 2022 and 39 percent in both 2024 and 2025.

In 2025, the campground was open from April 19 through November 14, a 210-day season. During this period, 3,070 total camping days were paid, resulting in an estimated average utilization of 39 percent. This was the highest total number of paid camping days recorded across the 4 years summarized; however, 2025 also had the longest season length. By comparison, total camping days paid were 1,860 in 2022, 1,304 in 2023, and 2,261 in 2024.

Approximate seasonal trends are shown in Figure 4.3-1. These results clarify that comparing average camping utilization across years is complicated by the length and timing of the season. For 2025, utilization was in the range of 50 to 100 percent from mid-June to mid-August, 20 to 50 percent in early June and from mid-August through mid-October, and 20 percent or less prior to June and after mid-October. Results for other years were more variable.

Table 4.3-4. Lundy Campground Site Use

Year	Start	End	Season Length (Days)	Season Capacity	Total Camping Days Paid	Average Utilization (Percent)
2022	7/7/2022	10/25/2022	111	4,218	1,860	44
2023	6/23/2023	8/22/2023	61	2,318	1,304	56
2024	7/3/2024	12/3/2024	154	5,852	2,261	39
2025	4/19/2025	11/14/2025	210	7,980	3,070	39

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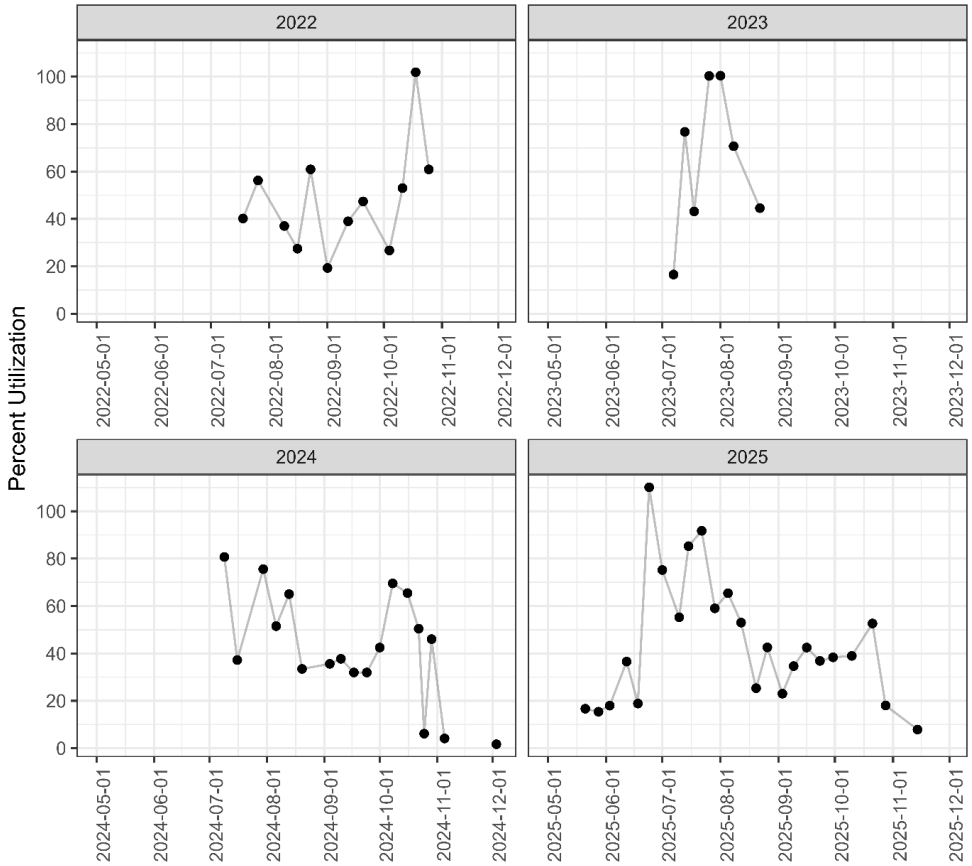


Figure 4.3-1. Approximate Seasonal Lundy Campground Utilization 2022–2025.

4.4. FUTURE RECREATION USE AND NEEDS ESTIMATES

Visitors to the Lundy Project arrive from many counties across the United States, as well as from other countries. Based on the visitor survey results, approximately 80 percent of the respondents travel from California, and approximately 11 percent travel from Nevada. Respondents from California represented 41 of the state's 58 counties, with no single county or small subset of counties dominating the results (11 counties accounted for approximately 50 percent of respondents, and 21 counties accounted for approximately 65 percent of respondents). Similarly, Nevada respondents originated from seven different counties. Due to the wide geographic distribution of visitors and the mix of trends observed at the county level, total state population data for California and Nevada were used in the population forecast analysis, rather than population data for individual counties. Population estimates for California and Nevada were obtained from the U.S. Census Bureau American Community Survey (ACS) 1-year and ACS 5-year datasets. ACS 1-year estimates are available from 2005 to 2024 excluding 2020. The ACS 5-year estimates are available for 2009 through 2023. The 5-year estimates were used in the analysis because they include data for 2020 and are more reliable than 1-year estimates (U.S. Census Bureau. 2024). The 2014–2023 population estimates for California and Nevada are shown in Table 4.4-1.

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Table 4.4-1. California and Nevada 2014–2023 Population Estimates

State	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California	38,066,920	38,421,464	38,654,206	38,982,847	39,148,760	39,28,3497	39,34,6023	39,45,5353	39,35,6104	39,242,785
Nevada	2,761,584	2,798,636	2,839,172	2,887,725	2,922,849	2,972,382	3,030,281	3,059,238	3,104,817	3,141,000

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Exponential population increase models were fit to the 2014–2023 population estimates for California and Nevada. Overall, there was a positive rate of change in population growth in both states over the 2014–2023 period. The estimated exponential growth rate for California was 0.3 percent and for Nevada was 1.5 percent. Based on the assumption that populations will continue to grow exponentially at these rates in the future, the forecasted population sizes in 5-year increments through 2078 for California and Nevada are shown in Table 4.4-2.

Table 4.4-2. California and Nevada Population Forecasts through 2078

Year	California	Nevada
2028	40,000,000	3,400,000
2033	41,000,000	3,600,000
2038	41,000,000	3,900,000
2043	42,000,000	4,200,000
2048	43,000,000	4,500,000
2053	44,000,000	4,900,000
2058	44,000,000	5,200,000
2063	45,000,000	5,600,000
2068	46,000,000	6,100,000
2073	47,000,000	6,500,000
2078	48,000,000	7,000,000

The weighted average of population growth estimates for California and Nevada was used to predict recreation days in the future. The average was weighted based on the relative percentage of visitors from California and Nevada (88 percent from California and 12 percent from Nevada). The weighted average growth rate was 0.5 percent, and this growth rate was applied to recreation days to estimate future projections. The forecasted recreation days in 5-year increments from 2028 to 2078 for the Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Day Use Areas 1 through 4 are shown in Table 4.4-3.

Table 4.4-3. Estimated Future Recreation Days at FERC-approved Recreation Sites

Year	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Areas 1-4	Total
2028	7,600	5,100	680	13,380
2033	7,800	5,200	700	13,700
2038	8,000	5,300	710	14,010
2043	8,200	5,500	730	14,430
2048	8,400	5,600	750	14,750
2053	8,600	5,700	770	15,070
2058	8,800	5,900	790	15,490

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Year	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Areas 1-4	Total
2063	9,000	6,000	800	15,800
2068	9,200	6,200	820	16,220
2073	9,500	6,300	840	16,640
2078	9,700	6,500	870	17,070

The forecasted recreation days in 5-year increments from 2028 to 2078 for Lundy Campground are shown in Table 4.4-4.

Table 4.4-4. Estimated Future Recreation Days at Lundy Campground

Year	Recreation Days
2028	5,100
2033	5,300
2038	5,400
2043	5,500
2048	5,700
2053	5,800
2058	6,000
2063	6,100
2068	6,200
2073	6,400
2078	6,600

The weighted average parking utilization for 2025 was calculated for each site (Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Day Use Areas 1, 2, 3, and 4). The forecasted parking utilization in 5-year increments from 2028 to 2078 for these sites is shown in Table 4.4-5.

Table 4.4-5. Estimated Future Parking Utilization Percent at FERC-approved Recreation Sites

Year	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Area 1	Lundy Day Use Area 2	Lundy Day Use Area 3	Lundy Day Use Area 4
2028	90	22	19	0.68	4.4	5.8
2033	92	23	20	0.69	4.5	5.9
2038	94	23	20	0.71	4.6	6.0
2043	96	24	21	0.72	4.7	6.2
2048	98	24	21	0.74	4.8	6.3
2053	100	25	21	0.76	4.9	6.4
2058	100	25	22	0.77	5	6.6

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Year	Lundy Lake Boat Launch	Lundy Dam Day Use Area	Lundy Day Use Area 1	Lundy Day Use Area 2	Lundy Day Use Area 3	Lundy Day Use Area 4
2063	110	26	22	0.79	5.1	6.7
2068	110	27	23	0.81	5.2	6.9
2073	110	27	23	0.83	5.3	7.0
2078	110	28	24	0.84	5.4	7.2

The forecasted camping utilization in 5-year increments from 2028 to 2078 for the Lundy Campground is shown in Table 4.4-6.

Table 4.4-6. Estimated Future Camping Utilization Percent at Lundy Campground

Year	Camping Utilization (%)
2028	41
2033	41
2038	42
2043	43
2048	44
2053	45
2058	46
2063	47
2068	48
2073	49
2078	50

Future recreation needs at the Lundy Project can be assessed in part by comparing the recreation use estimates and parking utilization percentages determined for 2025 to the forecasted population growth rates of California and Nevada. In addition, the future recreation needs are assessed by the preferences and perceptions of recreation in the area noted by visitors during the visitor intercept surveys. Based on the visitor intercept survey results, recreationists rated the condition of facilities and amenities as “Good” to “Excellent” (median rating of 4 across all facility categories) and rated the number of recreation facilities as “Just Right” (median rating of 3 across all facility categories). Recreationists also noted that the FERC-approved Lundy Project recreation sites were slightly or not crowded, with 52.7 percent of respondents selecting “Low” and 26.8 percent selecting “Somewhat Low” for perceived crowdedness; the majority of respondents reported that sites were less crowded or about as crowded as expected. Based on the forecasted growth rates for California and Nevada, the future recreation estimated for the Project Area would be anticipated to increase slightly, which is in alignment with the population trends for both states.

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5.0 DISCUSSION

REC-1 is complete and has met the goals and objectives stated in the FERC-approved study plan. Based on the data collected during the study period, recreation use at the FERC-approved Lundy Project recreation sites was characterized using spot count data, recreation use visitor intercept surveys, and existing information sources. A total of 239 vehicles and 590 recreationists were observed during the study period, providing estimates of recreation use by day type (weekday, non-peak weekend, and peak weekend) and activity. Recreation use was highest during non-peak and peak weekend periods and lowest during weekdays, with use primarily concentrated at the Lundy Lake Boat Launch, Lundy Dam Day Use Area, and Lundy Campground. Recreation activities were dominated by camping and fishing, followed by scenic viewing and hiking, indicating that the Lundy Project supports both overnight and day use recreation.

Recreationists at the FERC-approved Lundy Project recreation sites provided feedback through visitor intercept surveys regarding their perceptions and experiences at the sites. Recreationists noted that the facilities and amenities were in good to excellent condition, and that the number of recreation facilities was generally “Just Right” across all categories. In a few instances, recreationists rated signage lower relative to other facility types; however, most responses indicated that signage was in acceptable to good condition. Recreationists at all FERC-approved Lundy Project recreation sites noted that the value of the recreation experience was positive, and visitors were satisfied to very satisfied with the amenities provided. These results demonstrate visitor satisfaction with recreation facilities and conditions.

All FERC-approved Lundy Project recreation sites were noted to be slightly or not crowded. The majority of recreationists reported that sites were less crowded or about as crowded as expected, and only a small number of recreationists indicated that they had modified their visitation behavior due to crowding. Those who did modify behavior generally adjusted the timing of their visit or selected alternative nearby locations. These findings indicate that recreation experiences are not constrained by crowding and support the conclusion that existing use levels are within site capacity.

Recreational fishing effort at Lundy Lake and Mill Creek was evaluated through angler survey responses collected as part of the recreation use visitor intercept surveys. Recreationists identified rainbow trout as the primary target species, and CPUE estimates indicate moderate fishing success at both Lundy Lake (0.63 fish per hour) and Mill Creek (0.50 fish per hour). Recreationists generally rated fishing quality as comparable to or better than other nearby locations and consistent with prior experience.

In assessing recreation use related to Lundy Lake water levels, the majority of recreationists noted no impact to their visit associated with lake levels. A small number of recreationists reported that low water conditions affected their experience; however, these conditions did not result in reported changes to recreation activity.

In looking at the current recreation use and capacity, the existing FERC-approved Lundy Project recreation sites were evaluated using parking utilization, campground occupancy,

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and visitor perceptions of crowding. With the exception of the Lundy Lake Boat Launch during peak periods, which experienced utilization exceeding 100 percent due to informal parking, all sites operated well below capacity. Peak utilization at other sites remained below approximately 35 percent, and campground utilization remained below full occupancy throughout the study period. Based on utilization data and visitor feedback regarding crowdedness, the FERC-approved Lundy Project recreation sites are meeting the current need for recreation capacity.

When looking at estimating future use at the FERC-approved Lundy Project recreation sites, current recreation use levels were evaluated in combination with available population trends and regional recreation planning information, including SCORP and U.S. Census data. These data indicate that recreation use may increase modestly over time; however, given that existing utilization levels are below capacity at most sites, the FERC-approved Lundy Project recreation sites are expected to accommodate future recreation use.

Recreation use and conditions observed at the FERC-approved Lundy Project recreation sites are consistent with the applicable desired conditions, goals, standards, and guidelines identified in the Land Management Plan (LMP) for the Inyo National Forest (USFS, 2019). The LMP emphasizes providing a variety of sustainable recreation opportunities, maintaining functional and accessible recreation facilities, supporting visitor enjoyment, and accommodating recreation demand. Recreation activities documented during the Study Period, including camping, fishing, scenic viewing, hiking, and other day use activities, demonstrate that the Project provides diverse recreation opportunities that support these objectives. Visitor survey responses indicated that recreation facilities were generally in good to excellent condition, recreationists were satisfied with the facilities and amenities provided, and sites were perceived as slightly or not crowded. In addition, recreation sites generally operated below capacity during the Study Period and continued to provide access to Lundy Lake, Mill Creek, and surrounding public lands for a variety of outdoor recreation experiences. Based on recreation use patterns, visitor perceptions, facility conditions, and available recreation capacity documented through REC-1, recreation resources associated with the Lundy Project are consistent with the applicable recreation-related management direction identified in the Inyo National Forest Land Management Plan.

Looking at all the data collected as a whole and reviewing current use with estimated future use, the ability of the existing FERC-approved Lundy Project recreation sites to meet future recreation needs was evaluated using results from REC-1 and supporting information from REC-2. Existing facilities, site conditions, and available capacity indicate that the Lundy Project recreation sites are expected to meet the needs identified by recreationists over the term of a new license. Minor site-specific considerations, such as parking organization at the Lundy Lake Boat Launch and signage improvements, may enhance visitor experience but do not indicate system-wide deficiencies.

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APPENDIX A
RECREATION USE SPOT COUNT FORM

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Lundy Project				**Site Name:**								
Staff Person:			**Weather:**									
					# of people participating in:							
Date	**Time**	**# of vehicles**	**# of boats/ trailers**	**# of people**	**Boating**	**Fishing**	**Walk/ Hike/ Run**	**Picnic**	**Camping**	**Sightseeing/ birding/ photography**	**Biking**	**other**

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APPENDIX B
RECREATION USE VISITOR INTERCEPT SURVEY FORM

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Clerk: _____ **Site:**_____ **Date:**_____ **Time:**_am/pm _____

Weather: ☐ **Sunny** ☐ **Partly Cloudy** ☐ **Cloudy** ☐ **Light Rain** ☐ **Heavy Rain**

Section 1: Demographics

1. *What is your home country, state, county?*

2. *Including yourself, how many people are in your party today?*
   people in party
3. *How many vehicles did your party use to arrive at this site today?*
   _____
4. *Please provide the number of people in each age group within your party.*
   Under 18 ¨ 18–24 ¨ 25–34 ¨ 35–44 ¨ 45–54 ¨ 55–64 ¨ 65+

5. *What is the total length of time you will spend at this recreation site?*
   *Number of hours ---------**OR** Number of days (If staying overnight)*

1. ***Section 2: Current Trip Information***

6. *Please indicate which of the following recreational activities you are participating in on this trip (Mark all that apply):*

❑	*Bicycling*	❑	*Personal Watercraft Use*	❑	*Day Hiking*
❑	*Camping*	❑	*Photography*	❑	*Overnight Backpacking*
❑	*Picnicking*	❑	*Viewing Scenery*	❑	*Fishing*
❑	*Relaxing*	❑	*Viewing Wildlife*	❑	*Scenic Driving*
❑	*Other:_____*				

7. *Of the activities listed above, please indicate which is the **primary** activity of this trip (Choose only one):*

8. *Please help us understand capacity at this site by answering the following questions (circle one response for each item):*

8a. Please rate the crowdedness at this site today.	*1 Low*	*2 Somewhat Low*	*3 Neutral*	*4 Somewhat High*	*5 High*	*NA*
8b. Was it more or less crowded than you thought it would be?	*1 Less*	*2 Slightly Less*	*3 Neutral*	*4 Slightly More*	*5 More*	*NA*

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9. *Have you ever changed your use of this site due to crowding? ❑ Yes ❑ No*

If yes, how have you changed your use of this area?

❑ Visit the area during the off-season ❑ Visit earlier in the morning
❑ Visit the area during weekdays ❑ Visit a different site in the area
❑ Visit the area on days to avoid holidays
❑ Other, please specify _____

	1 Too Low	***2 Somewhat Low***	***3 Just Right***	***4 Somewhat High***	***5 Too High***	***6 Don't Know***
Publicly Available Recreation Sites	❑	❑	❑	❑	❑	*N/A*
Restrooms	❑	❑	❑	❑	❑	*N/A*
Parking	❑	❑	❑	❑	❑	*N/A*
Picnic or Day Use Areas	❑	❑	❑	❑	❑	*N/A*
Boat Launches	❑	❑	❑	❑	❑	*N/A*
Campsites	❑	❑	❑	❑	❑	*N/A*
Signage	❑	❑	❑	❑	❑	*N/A*

1. ***Section 3: User Perception and Feedback***

10. *We are interested in your opinion about the **number of existing recreation facilities*** at the Lundy Project*. (Please indicate a response for* any *of the following facilities you have used during your visit)*

11. *We are interested in your opinion about the **condition of existing recreation facilities*** at the Lundy Project*. (Please indicate a response for **any** of the following facilities you have used during your visit)*

	1 Poor	***2 Fair***	***3 Neutral***	***4 Good***	***5 Excellent***	***6 Don't Know***
Publicly Available Recreation Sites	❑	❑	❑	❑	❑	*N/A*
Restrooms	❑	❑	❑	❑	❑	*N/A*
Parking	❑	❑	❑	❑	❑	*N/A*
Picnic or Day Use Areas	❑	❑	❑	❑	❑	*N/A*
Boat Launches	❑	❑	❑	❑	❑	*N/A*
Campsites	❑	❑	❑	❑	❑	*N/A*
Signage	❑	❑	❑	❑	❑	*N/A*

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Section 4: Lake Level

12. *Was your visit to this site today affected by the level of Lundy Lake? Y or N (question for sites with reservoir access)*

If yes, was the level:

Too low

Too high

Other:_____

13. *Please rate the level of acceptability of the lake level presented in the following photos on a scale from 1-5 (1 very unacceptable, 3 neutral, and 5 very acceptable)*

	1 very unacceptable	***2 unacceptable***	***3 Neutral***	***4 acceptable***	***5 very acceptable***
Photo 1 (drought year)	❑	❑	❑	❑	❑
Photo 2 (normal year)	❑	❑	❑	❑	❑
Photo 3 (high water year)	❑	❑	❑	❑	❑

14. *Do you have any additional comments about public recreation opportunities and facilities at the Lundy Project?*

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FOR ANGLERS ONLY

Number of anglers in party	
What time did you start fishing?	
How much longer will you fish?	
Target Species (primary)	
2nd Target Species (If applicable)	
How often (frequency) do you fish in the area?	*Examples: Just passing through # times per year*
What other nearby locations do you fish?	
How do you define quality of fishing?	Fish Species Size Catch Rate Natural Setting Solitude Park Amenities Water Access Pr oximity *Any other potential variables*
How does fishing quality compare here to other nearby locatio ns you've fished this trip? (If applicable)	
How does overall fishing quality here compare to past experiences here? (If applicable)	

BIOLOGICAL DATA (Enter total number of harvested (H) and released (R) fish in each size class)

Species	<8 in.	8 in.	9 in.	10 in.	11 in.	12 in.	13 in.	14 in.	15 in.	16 in.	17 in.	18 in.	19+ in.
Rainbow trout													
Brook trout													
Brown trout													
Other													
Notes													

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APPENDIX C
QUALITATIVE SURVEY RESPONSES

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Additional Comments About Respondents Visits to the Lundy FERC-Approved Recreation Sites (Q14)

Site Name	Comment
Lundy Lake Boat Launch	Keep it like it is
	Extend the boat launch, more trash maintenance assistance to the resort, would be good to give more public communication about the lake level
	Lake signage not clear about safety on accessing other side.
	Picnic benches in bad condition.
	More bathrooms and picnic tables around the lake
	Stop advertising.
	Boat launch is too flooded
	Cleaner than past years.
	Leave more water
	Forest service websites (green creek) very out of date
	Boat launch doesn't extend far enough.
	Don't lower lake level when snowmelt slows
	Add historical signage.
	More road safety signage. Maintain water level so that ramp stays usable.
	Like the bear lock cabinets at campsite.
	Keep things the way they are.
	Bathrooms more improved, more marketing about the lake.
	Don't take the water
	Signage past cabins could be better
	Campground needs sites for bigger RVs. Only 3 spots fit over 30ft RVs
	Boat launch parking area needs graded
	Fill in ledge to right of ramp looking toward lake.
	Kayak and paddleboard rentals would be nice.
Lundy Dam Day Use Area	More fish.
	Enjoy that Lundy does not get a lot of marketing
	Happy how it is.
	More ADA access, no lighting, potable water station, fish cleaning station
	Access for disabled to fish.
	Great area
	Update signs

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Site Name	Comment
	Keep it open.
	Mining is cool
	They come here often and enjoy the lake.
	Please do not increase capacity.
	Mining history signage
	Pay station at campground needs to be updated. More easy trails.
	I wish dead trees were cleaned out.
Lundy Campground	Picnic tables are falling apart.
	Keep campground first come first served. Don't pave any more roads.
	Nice to have garbage in bathroom.
	Redraw campsite maps, hard to find.
	Signage for campsite payment, and tables in bad condition.
	Directions to and campsite numbers unreadable.
	Campsite 25 doesn't have a bear box.
	Campground signage could be improved and more helpful.
	Areas are overgrown, please clear campsites.
	Campground tables are rotting away. Some CG site numbers very hard to read (esp #4).
	Please replace toilets at trailhead.
	Campground entrances need more signage.
	Campsites overgrown, need maintenance.
	Pit toilets ok, don't like porta potties.
	Maintain the campsites better. Many campsites overgrown, need better maintenance.
	The signage could be increased on the roadways, parking is inadequate up at trailhead, road is precarious and seems prone to flooding.
	Likes that there is toilet paper in the restrooms.
	They couldn't find the sign post for their campsite tag, but other signs were good.
	Signs for campground should be increased.
	More and better signage, possibly large map at road entrance, picnic benches in bad shape.
	They walk up to the dam often. Noted the dumpsters need to be emptied.
	Sites need gravel, and picnic benches in poor shape, site post numbers unreadable.

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Site Name	Comment
	Campground tables are rotting and falling apart.
	Very nice campground.
	Leave it the way it is. Don't want more amenities.
	Add a water source/pumps.
	Picnic tables could use some work.
	Keep it first come first served in CG.
	People use check-in envelopes to claim unpaid sites for solitude around theirs, access to creek is too limited.
	Replace toilet paper more often.
	Campground picnic tables are falling apart.
	Don't change a thing.
	Change nothing.
	Add potable water.
	Host needed, some people don't pay.
	Improve bathrooms in campground - "great survey."
	Everything is great. Keep as is.
	Empty dumpsters more on busy season weeks. Have a stay limit. Often times no envelopes.
	The road needs more turnouts around the lake.
	Bathroom signage and trash in the campground.
	Missing signs for no camping at day use areas.
	Need water in campground. Need more signage past end of lake; it's unclear that road continues.
	Campground isn't listed on rec.gov and is hard to find.
	Beautiful, impressive.
	Stock more fish, keep more water.
	Campground sites not leveled for RV.
Lundy Day Use Area 4	Keep it the same.

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SOUTHERN CALIFORNIA EDISON

Lundy Hydroelectric Project (FERC Project No. 1390)

RECREATION FACILITIES CONDITION ASSESSMENT (REC-2) DRAFT TECHNICAL REPORT

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October 2026

SOUTHERN CALIFORNIA EDISON

Lundy Hydroelectric Project
(FERC Project No. 1390)

Recreation Facilities Condition Assessment
(REC-2)
Draft Technical Report

Southern California Edison
2244 Walnut Grove Ave
Rosemead, CA 91770

October 2026

Support from:

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TABLE OF CONTENTS

Page

1.0 Introduction 1
1.1. Review of Existing Information 1
2.0 Study Objectives 1
2.1. Study Area 1
3.0 Methods 4
3.1. Recreation Site Inventory and Condition Assessment 4
3.2. Recreation Site Accessibility Assessment 4
4.0 Results 5
4.1. Recreation Site Inventory and Condition Assessment 5
4.1.1. Lundy Lake Boat Launch 5
4.1.2. Lundy Dam Day Use Area 8
4.1.3. Lundy Campground 10
4.1.4. Lundy Day Use Area 1 17
4.1.5. Lundy Day Use Area 2 19
4.1.6. Lundy Day Use Area 3 21
4.1.7. Lundy Day Use Area 4 23
4.2. Recreation Boating Accessibility Assessment 25
4.2.1. USGS Gage Data 25
4.2.2. Lundy Lake Boat Launch Functional Limits 25
4.2.3. Recreation Use and Needs Data 27
4.3. Consistency with Inyo National Forest Land Management Plan 33
5.0 Discussion 33
6.0 References 34

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LIST OF FIGURES

Figure 2.1-1. Existing FERC-approved Recreation Sites within the Lundy Project Boundary. 3
Figure 4.1-1. Lundy Lake Boat Launch. 7
Figure 4.1-2. Lundy Dam Day Use Area. 9
Figure 4.1-3. Lundy Campground, Section 1 12
Figure 4.1-4. Lundy Campground, Section 2 13
Figure 4.1-5. Lundy Campground, Section 3 14
Figure 4.1-6. Lundy Campground, Section 4 15
Figure 4.1-7. Lundy Campground, Section 5 16
Figure 4.1-8. Lundy Day Use Area 1. 18
Figure 4.1-9. Lundy Day Use Area 2. 20
Figure 4.1-10. Lundy Day Use Area 3. 22
Figure 4.1-11. Lundy Day Use Area 4. 24
Figure 4.2-1. Simulated Drought Water Year Type for Lundy Lake Boat Launch 29
Figure 4.2-2. Simulated Drought Water Year Type for Lundy Dam Day Use Area 29
Figure 4.2-3. Simulated Normal Water Year Type for Lundy Lake Boat Launch. 30
Figure 4.2-4. Simulated Normal Water Year Type for Lundy Dam Day Use Area. 30
Figure 4.2-5. Simulated High Water Year Type for Lundy Lake Boat Launch. 31
Figure 4.2-6. Simulated High Water Year Type for Lundy Dam Day Use Area. 31

LIST OF TABLES

Table 2.1-1. Existing FERC-approved Recreation Sites within the Lundy Project Boundary 2
Table 4.1-1. Lundy Lake Boat Launch 6
Table 4.1-2. Lundy Dam Day Use Area 8

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Table 4.1-3. Lundy Campground 10
Table 4.1-4. Lundy Day Use Area 1 17
Table 4.1-5. Lundy Day Use Area 2 19
Table 4.1-6. Lundy Day Use Area 3 21
Table 4.1-7. Lundy Day Use Area 4 23
Table 4.2-1. Lundy Lake Boat Launch Functional Limits 26
Table 4.2-2. Summary of Respondent Impacts Associated with Lundy Lake Level 28
Table 4.2-3. Percentage of Respondents Giving Ratings (1-5) for Lundy Lake Level .. 32

LIST OF APPENDICES

Appendix A Recreation Site Inventory Form
Appendix B Lundy Lake Elevation and Storage

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DEFINITIONS OF TERMS, ACRONYMS, AND ABBREVIATIONS

A

ADA	Americans with Disabilities Act

D

DBW	California Department of Parks and Recreation, Division of Boating and Waterways

F

FERC	Federal Energy Regulatory Commission

G

G	Good condition (Facility/amenity is functional and well maintained)

L

LMP	Land Management Plan
Lundy Project	Lundy Hydroelectric Project (FERC No. 1390)

M

M	Needs maintenance (Facility/amenity needs maintenance, such as cleaning or painting)

N

N	Needs replacement (Facility/amenity is non-functional or has broken or missing components)

P

Project	Lundy Hydroelectric Project (FERC No. 1390)

R

R	Needs repair (Facility/amenity has structural damage or is in an obvious state of disrepair)
REC-1	Recreation Use and Needs Study

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REC-2	Recreation Facilities Condition Assessment Study

S

SCE	Southern California Edison
SPD	Study Plan Determination

U

USFS	U.S. Forest Service
USGS	U.S. Geological Survey

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct a Recreation Facilities Condition Assessment Study (REC-2) to gather baseline data on the inventory and condition of recreation facilities and amenities associated with the Project. FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the study with modification (FERC, 2025; SCE, 2024). This Draft Technical Report includes a summary of the collected and analyzed data for REC-2, which will inform the Draft License Application.

1.1. REVIEW OF EXISTING INFORMATION

This study reviewed and incorporated existing information related to the recreation sites at the Lundy Project. The following is a list of studies and reports reviewed as part of REC-2:

- Existing Lundy Hydroelectric Project Exhibit R Drawings (SCE, 2017)
- Mono County License Agreement with SCE (CM and SCE, 2023)

2.0 STUDY OBJECTIVES

The goal of REC-2 was to conduct an inventory of existing FERC-approved Lundy Project recreation sites, including locations, facilities/amenities, general condition, ownership, and management responsibilities. Additionally, SCE collected data to evaluate the accessibility and usability of the Lundy Lake Boat Launch. To accomplish these goals, the following objectives were implemented:

- Field verify, map, and document FERC-approved Lundy Project recreation facilities and amenities.
- Document the general condition of FERC-approved recreation facilities and amenities, including the potential for universal accessibility, where feasible.
- Identify who owns, operates, and maintains each of the FERC-approved recreation sites.
- Assess the accessibility and usability of the Lundy Lake Boat Launch under existing Project operations.

2.1. STUDY AREA

Recreation sites that were included in REC-2 are listed in Table 2.1-1 and shown in Figure 2.1-1.

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Table 2.1-1. Existing FERC-approved Recreation Sites within the Lundy Project Boundary

Site Number	Recreation Site Name
1	Lundy Lake Boat Launch
2	Lundy Dam Day Use Area
3	Lundy Campground
4	Lundy Day Use Area 1
5	Lundy Day Use Area 2
6	Lundy Day Use Area 3
7	Lundy Day Use Area 4

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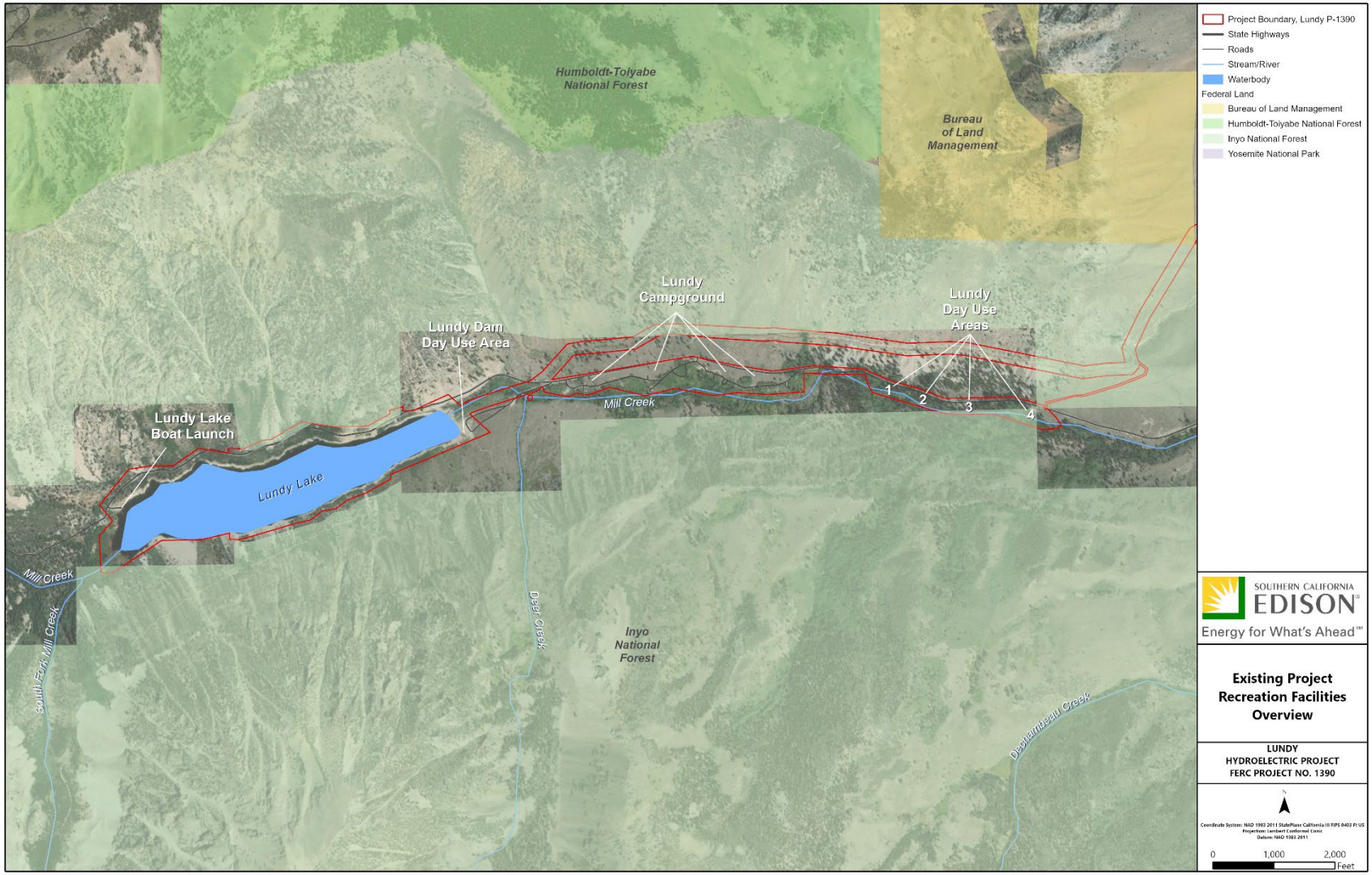


Figure 2.1-1. Existing FERC-approved Recreation Sites within the Lundy Project Boundary.

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3.0 METHODS

3.1. RECREATION SITE INVENTORY AND CONDITION ASSESSMENT

SCE performed a field inventory to document the existing recreation facilities and amenities at the Lundy Project FERC-approved recreation sites (Table 2.1-1). Field technicians visited each recreation site and collected data on the recreation facilities and amenities using a handheld device. Data collected during the inventory included the following:

- The location of the facilities in relation to the Lundy Project Boundary,
- The type and number of recreation amenities provided at each site and facility,
- The condition of the recreation facility/amenities,
- The entity responsible for the ownership, operation, and maintenance of each recreation facility,
- Hours/seasons of operation, and
- Site photographs.

Additionally, field investigations at each recreation site documented site areas, if any, that have characteristics of erosion, slumping, or other forms of instability. The Recreation Site Inventory Form that was used is provided in Appendix A. The conditions of the facilities/amenities were assessed as follows:

- N = Needs replacement (Facility/amenity is non-functional or has broken or missing components)
- R = Needs repair (Facility/amenity has structural damage or is in an obvious state of disrepair)
- M = Needs maintenance (Facility/amenity needs maintenance, such as cleaning or painting)
- G = Good condition (Facility/amenity is functional and well maintained)

3.2. RECREATION SITE ACCESSIBILITY ASSESSMENT

SCE evaluated the usability of the Lundy Lake Boat Launch, under existing Project operations, by assessing impoundment levels as measured by an existing U.S. Geological Survey (USGS) gage located on the east end of Lundy Lake at the Lundy Dam for the high-use recreation season (Memorial Day through Labor Day). The boat launch was evaluated regarding the location and usability of the facilities with respect to impoundment water levels. Minimum functional limits were determined for the boat launch facility based on parameters such as water depth, slope, and substrate. Using this

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information, SCE determined the range of impoundment water levels over which the facility is functional for its primary purpose.

To evaluate boat-launch functionality, SCE applied design criteria presented in the California Department of Parks and Recreation, Division of Boating and Waterways' *Layout & Design Guidelines for Boat Launching Facilities* (DBW 2021). The evaluation considered recommended launch-facility operating thresholds, including a minimum water depth of approximately 3 feet at the ramp toe, a maximum water surface elevation no more than 1 foot below the top of the launch ramp, and a ramp slope not exceeding 15 percent. Recognizing that launch depth requirements may vary by vessel type, these criteria were used as industry-standard benchmarks to determine the range of lake elevations at which the Lundy Lake Boat Launch provides functional access for trailered recreational watercraft.

Consistent with the Commission's Study Plan Determination, SCE incorporated lake-level preference questions into the Recreation Use and Needs Study (REC-1) visitor survey to evaluate the relationship between impoundment water levels and recreation opportunities at Lundy Lake. The survey used a normative evaluation approach consistent with Manning (2011), in which respondents reviewed photographs depicting a range of representative lake-level conditions and rated the acceptability of each condition for recreational activities occurring at the Project. These lake-level acceptability ratings, together with recreation use data collected during REC-1, were used to characterize user preferences, identify recreation conditions considered more or less acceptable by visitors, and supplement the evaluation of potential Project effects on recreation resources under varying reservoir elevations.

4.0 RESULTS

4.1. RECREATION SITE INVENTORY AND CONDITION ASSESSMENT

4.1.1. LUNDY LAKE BOAT LAUNCH

The Lundy Lake Boat Launch is the west-most recreation site at the Lundy Project and sits on the northwestern end of Lundy Lake. The site includes a boat launch concrete slab that extends into the lake, portable restrooms across the street from the boat launch, a small parking area of approximately 3,000 square feet to the left of the launch that holds five spaces for vehicles with trailer parking, and beach access throughout the area. Signage is also present, which captures the extent of invasive species known throughout the area and ways to mitigate the spread. A floatable dock (owned and operated by Lundy Lake Resort) is located on the left side of the boat launch where boats and rafts can dock. A fishing line disposal receptacle is located on entry into the site, where anglers are encouraged to throw unused and tangled line into the container. The site is owned by SCE, while the operation and maintenance are provided by Mono County through a license agreement (CM and SCE, 2023). The Lundy Lake Boat Launch access road and parking consist of a concrete slab that extends into the lake for the boat launch and dirt road access for vehicle parking. The access and parking areas were noted to be in good condition.

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Site elements, quantities, and their conditions at the Lundy Lake Boat Launch site are included in Table 4.1-1 and shown on Figure 4.1-1.

Table 4.1-1. Lundy Lake Boat Launch

Amenity Type	Amenity Condition[a]	Count
Portable Restroom	G	2
Informational Signage	G	1
Fishing Line Disposal	G	1
Boat Launch	G	1
Boat Dock	G	1

[a] G = Good condition (Facility/amenity is functional and well maintained). See section 3.1 for additional amenity condition ratings.

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Figure 4.1-1. Lundy Lake Boat Launch.

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4.1.1.1. Signage and Wayfinding

Signage at the Lundy Lake Boat Launch includes a total of one information signage, which was noted in good condition.

4.1.1.2. Universal Accessibility

The Americans with Disabilities Act (ADA) universal accessibility was assessed at each amenity at the Lundy Lake Boat Launch (Table 4.1-1). None of the amenities at the site were ADA accessible.

4.1.1.3. Erosion

No erosion was noted at the Lundy Lake Boat Launch site.

4.1.2. LUNDY DAM DAY USE AREA

The Lundy Dam Day Use Area is located east of Lundy Lake at/around the Lundy Dam itself. The site includes a parking area that is approximately 3,550 square feet and holds approximately 20 single vehicle parking spaces, informational and safety signage, ADA accessible restroom, and a trash can. The site includes access to the lake and lakeshore via a walkway from the parking area to the lake. In addition, the site provides access to hiking and biking trails located outside of the Project Boundary. The site is owned, operated, and maintained by SCE, with the exception of the restroom facility, which is maintained by Mono County through a license agreement (CM and SCE, 2023.

Lundy Dam Day Use Area access consists of a dirt road (Lundy Dam Road), which is an offshoot of Lundy Lake Road. Parking can be found all around the gravel area at the base of the dam. Parking was noted to be in good condition.

Site elements, quantities, and their conditions at the Lundy Dam Day Use Area are included in Table 4.1-2 and shown on Figure 4.1-2.

Table 4.1-2. Lundy Dam Day Use Area

Amenity Type	Amenity Condition[a]	Count
Informational Signage	G	1
Safety Signage	G	1
ADA Restroom	G	1
Trash Can	G	1

[a] G = Good condition (Facility/amenity is functional and well maintained). See section 3.1 for additional amenity condition ratings.

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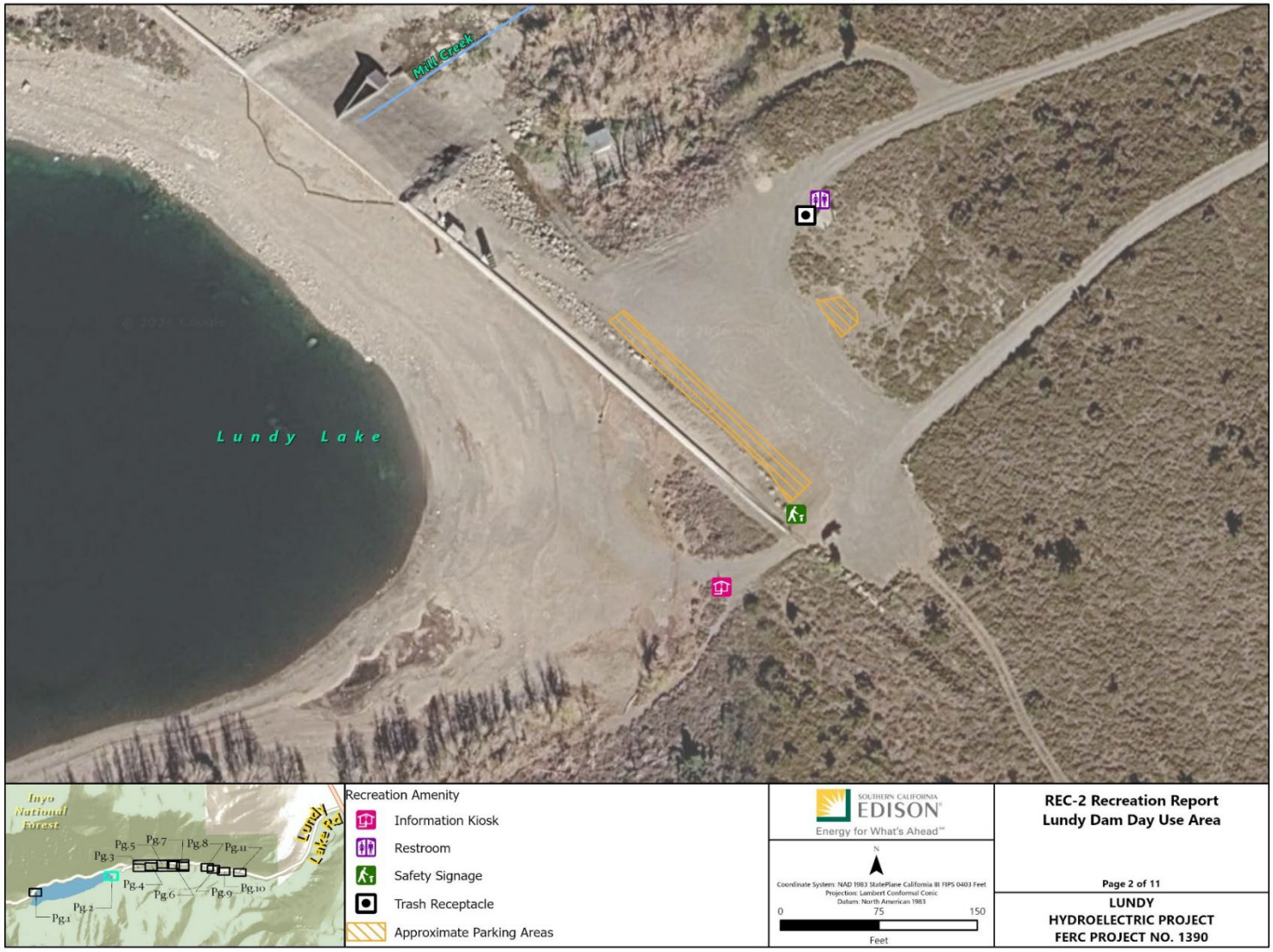


Figure 4.1-2. Lundy Dam Day Use Area.

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4.1.2.1. Signage and Wayfinding

Signage at the Lundy Dam Day Use Area includes a total of one informational signage and one safety signage, which were noted to be in good condition.

4.1.2.2. Universal Accessibility

The ADA universal accessibility was assessed at each amenity at the Lundy Dam Day Use Area (Table 4.1-2). The restrooms are the only amenity accessible at the site.

4.1.2.3. Erosion

No erosion was noted at the Lundy Dam Day Use Area.

4.1.3. LUNDY CAMPGROUND

The Lundy Campground is located east of Lundy Lake and consists of 38 individual campsites with three separate entrances into the campground. The campground consists of dirt/gravel roads to travel between campsites and hosts numerous amenities such as bear boxes, campfire rings, portable restrooms, vault restrooms, picnic tables, and signage. The campground costs $15 per night per site. Additional information about the campground, wildlife, and other concerns is located on a signage board in the middle of the campground near the central entrance. The Lundy Campground is owned by SCE, while the operation and maintenance are provided by Mono County through a license agreement (CM and SCE, 2023).

Lundy Campground consists of gravel/dirt roads connecting campsites throughout the campground. A single parking space is available at each campsite.

Site elements, quantities, and their conditions at the Lundy Campground site are included in Table 4.1-3 and shown on Figure 4.1-3 to Figure 4.1-7.

Table 4.1-3. Lundy Campground

Amenity Type	Amenity Condition[a]	Count
Bear Box	G	34
	M	2
Campsite	G	35
	M	2
	R	1
Dumpster	G	3
	M	1
Firepit / Ring	G	36
	M	1
Information Kiosk	M	1
Iron Ranger	M	1

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Amenity Type	Amenity Condition[a]	Count
Picnic Table	G	10
	M	14
	R	16
	N	2
Portable Restroom	G	7
Vault Restroom	G	3

a N = Needs replacement (Facility/amenity is non-functional or has broken or missing components); R = Needs repair (Facility/amenity has structural damage or is in an obvious state of disrepair); M = Needs maintenance (Facility/amenity needs maintenance, such as cleaning or painting); G = Good condition (Facility/amenity is functional and well maintained).

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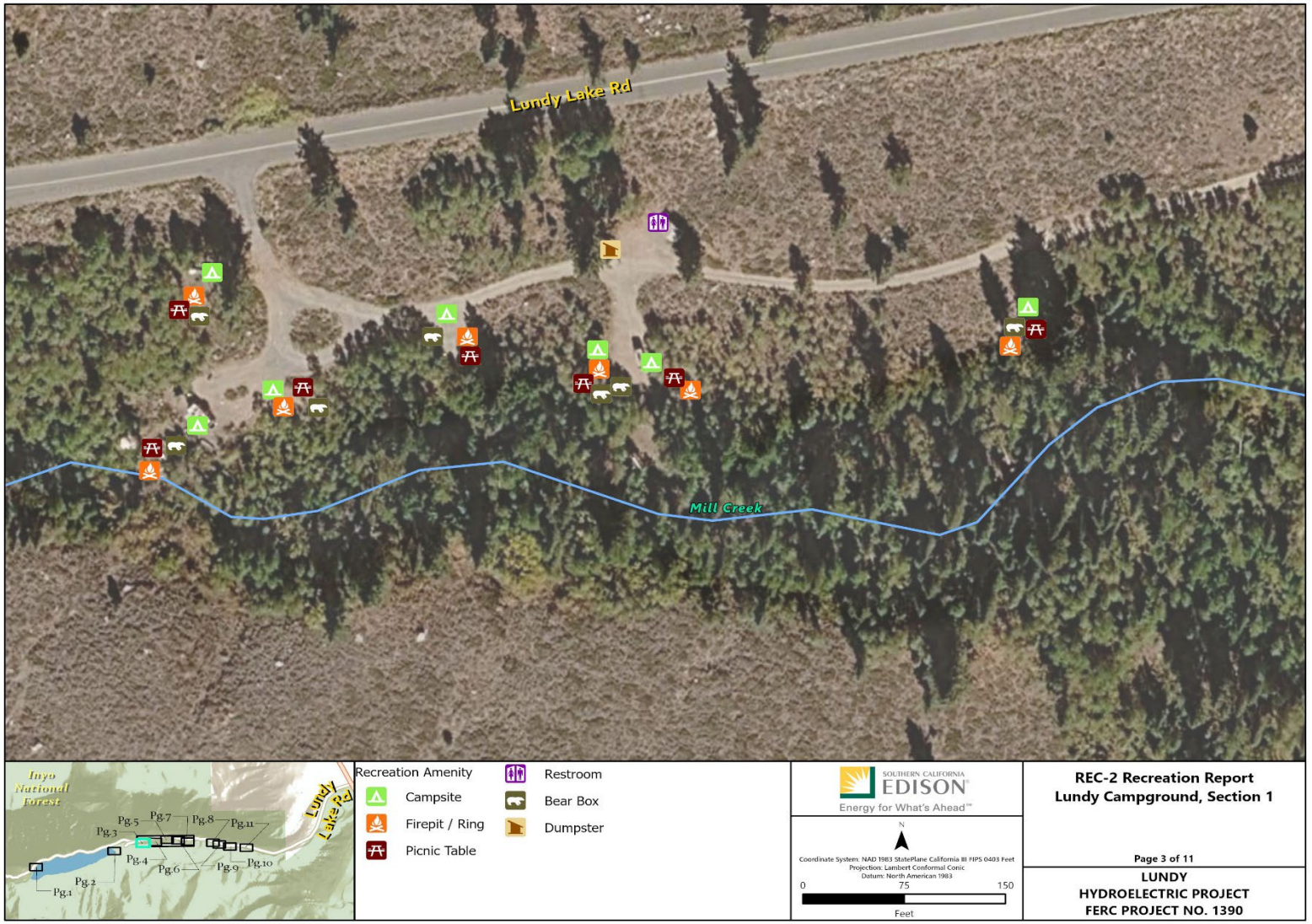


Figure 4.1-3. Lundy Campground, Section 1.

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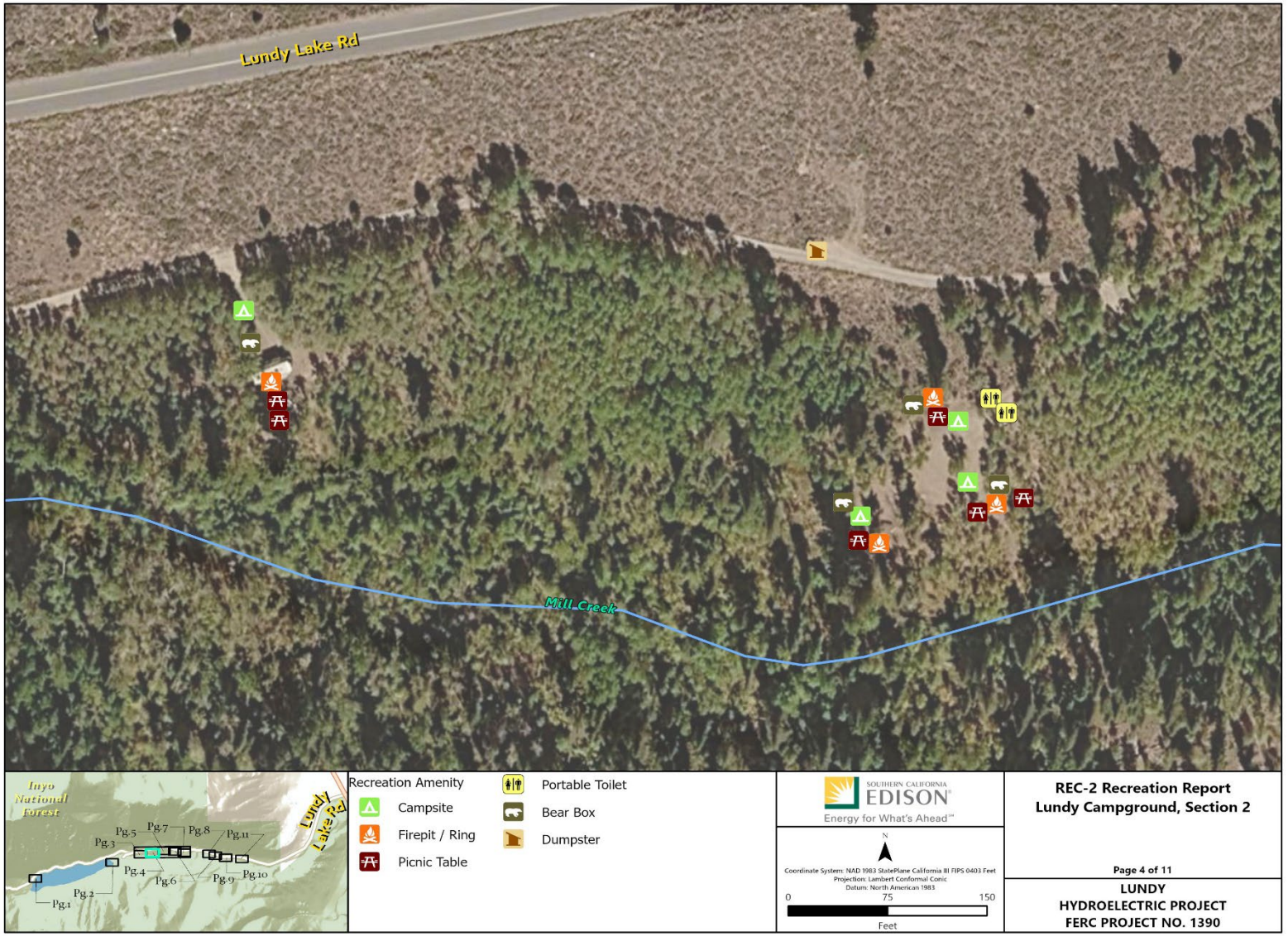


Figure 4.1-4. Lundy Campground, Section 2.

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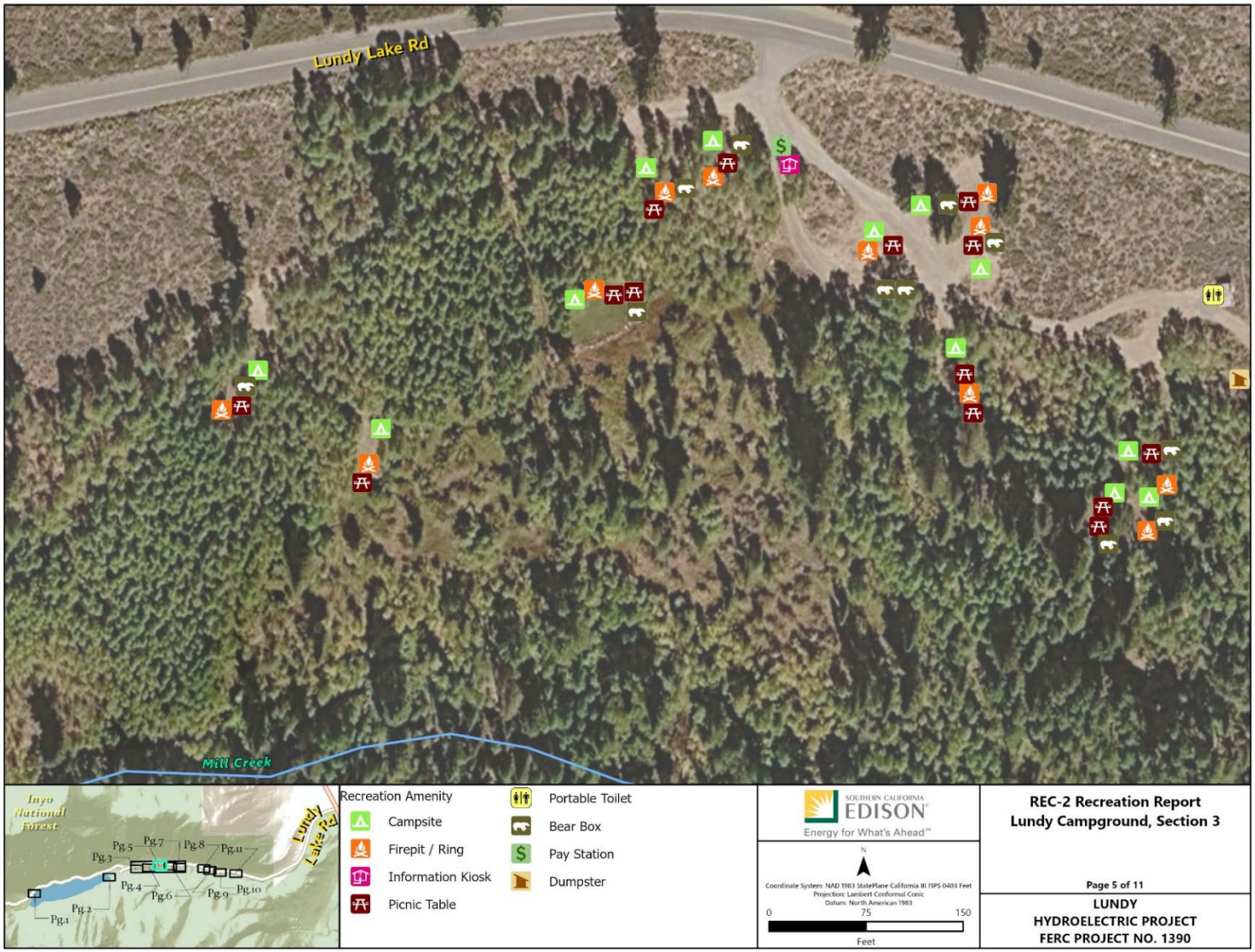


Figure 4.1-5. Lundy Campground, Section 3.

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Figure 4.1-6. Lundy Campground, Section 4.

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Figure 4.1-7. Lundy Campground, Section 5.

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4.1.3.1. Signage and Wayfinding

Signage at the Lundy Campground consists of one informational board by the central entrance to the campground. The condition of the informational sign was noted to need maintenance.

4.1.3.2. Universal Accessibility

The ADA universal accessibility was assessed at each amenity at the Lundy Campground (Table 4.1-3). None of the amenities at the site were ADA accessible.

4.1.3.3. Erosion

Erosion was noted at Campsite 4, with signs of tires from vehicles and people using non-identified trails to reach the creek, and Campsite 30, with noticeable tire marks from vehicles.

4.1.4. LUNDY DAY USE AREA 1

Lundy Day Use Area 1 is found east of the Lundy Campground. Lundy Day Use Area 1 consists of a picnic table and a portable restroom. A parking space is located behind the portable restroom. This site is owned by SCE, while the operation and maintenance are provided by Mono County through a license agreement (CM and SCE, 2023).

Lundy Day Use Area 1 access road and parking consist of a gravel road within Lundy Day Use Area 1 and a gravel parking area that is approximately 200 square feet.

Site elements, quantities, and their conditions at the Lundy Day Use Area 1 site are included in Table 4.1-4 and shown on Figure 4.1-8.

Table 4.1-4. Lundy Day Use Area 1

Amenity Type	Amenity Condition[a]	Count
Picnic Table	M	1
Portable Restroom	M	1

a M = Needs maintenance (Facility/amenity needs maintenance, such as cleaning or painting). See section 3.1 for additional amenity condition ratings.

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Figure 4.1-8. Lundy Day Use Area 1.

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4.1.4.1. Signage and Wayfinding

There was no signage accounted for at the site.

4.1.4.2. Universal Accessibility

The ADA universal accessibility was assessed at each amenity at Lundy Day Use Area 1 (Table 4.1-4). None of the amenities at the site were ADA accessible.

4.1.4.3. Erosion

No erosion was noted at the Lundy Day Use Area 1 site.

4.1.5. LUNDY DAY USE AREA 2

Lundy Day Use Area 2 is found east of the Lundy Campground. Lundy Day Use Area 2 consists of two picnic tables and a social firepit on an old service road. The site is owned by SCE, while the operation and maintenance are provided by Mono County through a license agreement (CM and SCE, 2023).

Lundy Day Use Area 2 access road and parking consist of a gravel road within Lundy Day Use Area 2. Parking was noted at three different locations where signs of past vehicles were found: an area next to the first picnic table and two areas between the portable restroom and next picnic table which total approximately 790 square feet in total. A picnic table was noted off the main site at the end of an old service road.

Site elements, quantities, and their conditions at the Lundy Day Use Area 2 site are included in Table 4.1-5 and shown on Figure 4.1-9.

Table 4.1-5. Lundy Day Use Area 2

Amenity Type	Amenity Condition[a]	Count
Social Firepit	R	1
Portable Toilet	G	1
Picnic Table	G	1
	R	1

a G = Good condition (Facility/amenity is functional and well maintained); R = Needs repair (Facility/amenity has structural damage or is in an obvious state of disrepair). See section 3.1 for additional amenity condition ratings.

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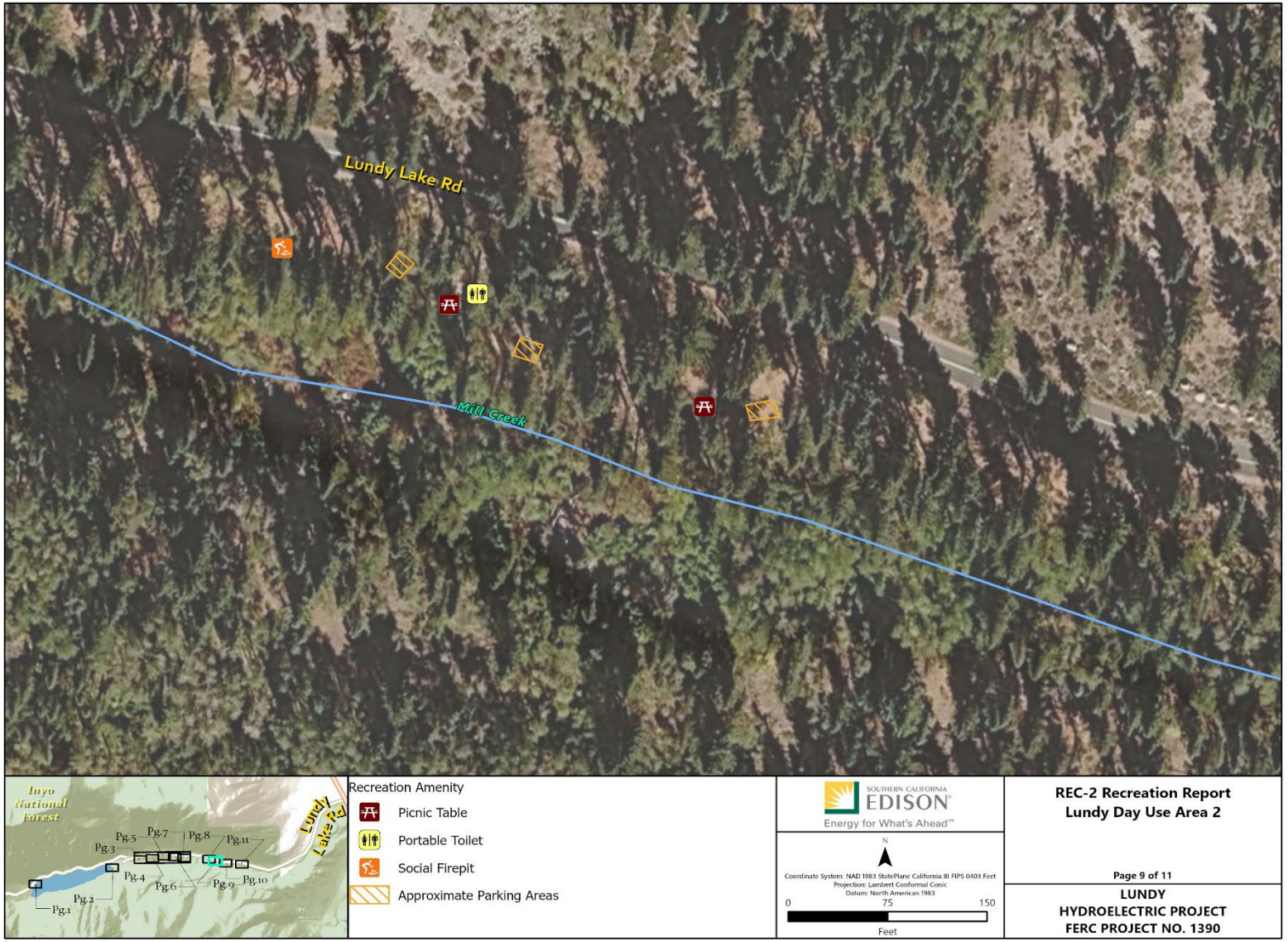


Figure 4.1-9. Lundy Day Use Area 2.

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4.1.5.1. Signage and Wayfinding

There was no signage accounted for at the site.

4.1.5.2. Universal Accessibility

The ADA universal accessibility was assessed at each amenity at Lundy Day Use Area 2 (Table 4.1-5). None of the amenities at the site were ADA accessible.

4.1.5.3. Erosion

Compact vegetation was noted at the site near the entrance, but no erosion was observed during the site visit.

4.1.6. LUNDY DAY USE AREA 3

Lundy Day Use Area 3 is located east of the Lundy Campground. Lundy Day Use Area 3 consists of a picnic table and a portable restroom. Parking is in three general areas of Lundy Day Use Area 3, with no true defined area for parking. The area consists of gravel. The site is owned by SCE, while the operation and maintenance are provided by Mono County through a license agreement (CM and SCE, 2023).

Lundy Day Use Area 3 access road and parking consist of a gravel road within Lundy Day Use Area 3 and gravel parking areas that total approximately 720 square feet.

Site elements, quantities, and their conditions at the Lundy Day Use Area 3 site are included in Table 4.1-6 and shown on Figure 4.1-10.

Table 4.1-6. Lundy Day Use Area 3

Amenity Type	Amenity Condition[a]	Count
Picnic Table	M	1
Portable Toilet	G	1

a G = Good condition (Facility/amenity is functional and well maintained). M = Needs maintenance (Facility/amenity needs maintenance, such as cleaning or painting). See section 3.1 for additional amenity condition ratings.

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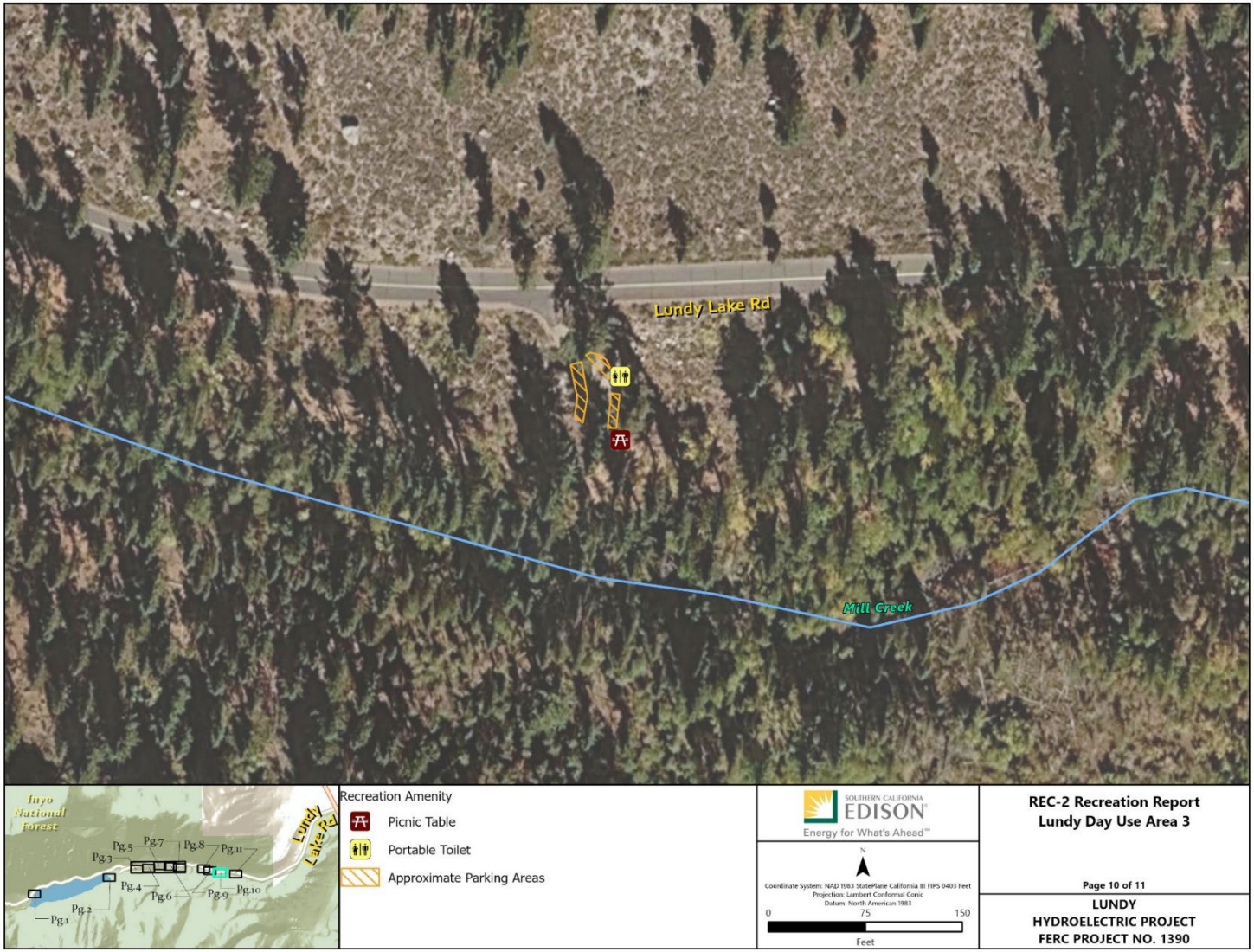


Figure 4.1-10. Lundy Day Use Area 3.

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4.1.6.1. Signage and Wayfinding

There was no signage accounted for at the site.

4.1.6.2. Universal Accessibility

The ADA universal accessibility was assessed at each amenity at Lundy Day Use Area 3 (Table 4.1-6). None of the amenities at the site were ADA accessible.

4.1.6.3. Erosion

Compacted soil and vegetation were noted, but no erosion was observed at the site.

4.1.7. LUNDY DAY USE AREA 4

Lundy Day Use Area 4 is the furthest site east of the Lundy Campground. Lundy Day Use Area 4 consists of a picnic table and a portable restroom. Parking is in two distinct areas, and the site has a roundabout feature within the site. The site is owned by SCE, while the operation and maintenance are provided by Mono County through a license agreement (CM and SCE, 2023).

Lundy Day Use Area 4 access road and parking consist of a gravel road within Lundy Day Use Area 4 and two gravel parking areas, which equal approximately 560 square feet.

Site elements, quantities, and their conditions at the Lundy Day Use Area 4 site are included in Table 4.1-7 and shown on Figure 4.1-11.

Table 4.1-7. Lundy Day Use Area 4

Amenity Type	Amenity Condition[a]	Count
Picnic Table	M	1
Portable Restroom	G	1

a G = Good condition (Facility/amenity is functional and well maintained). M = Needs maintenance (Facility/amenity needs maintenance, such as cleaning or painting). See section 3.1 for additional amenity condition ratings.

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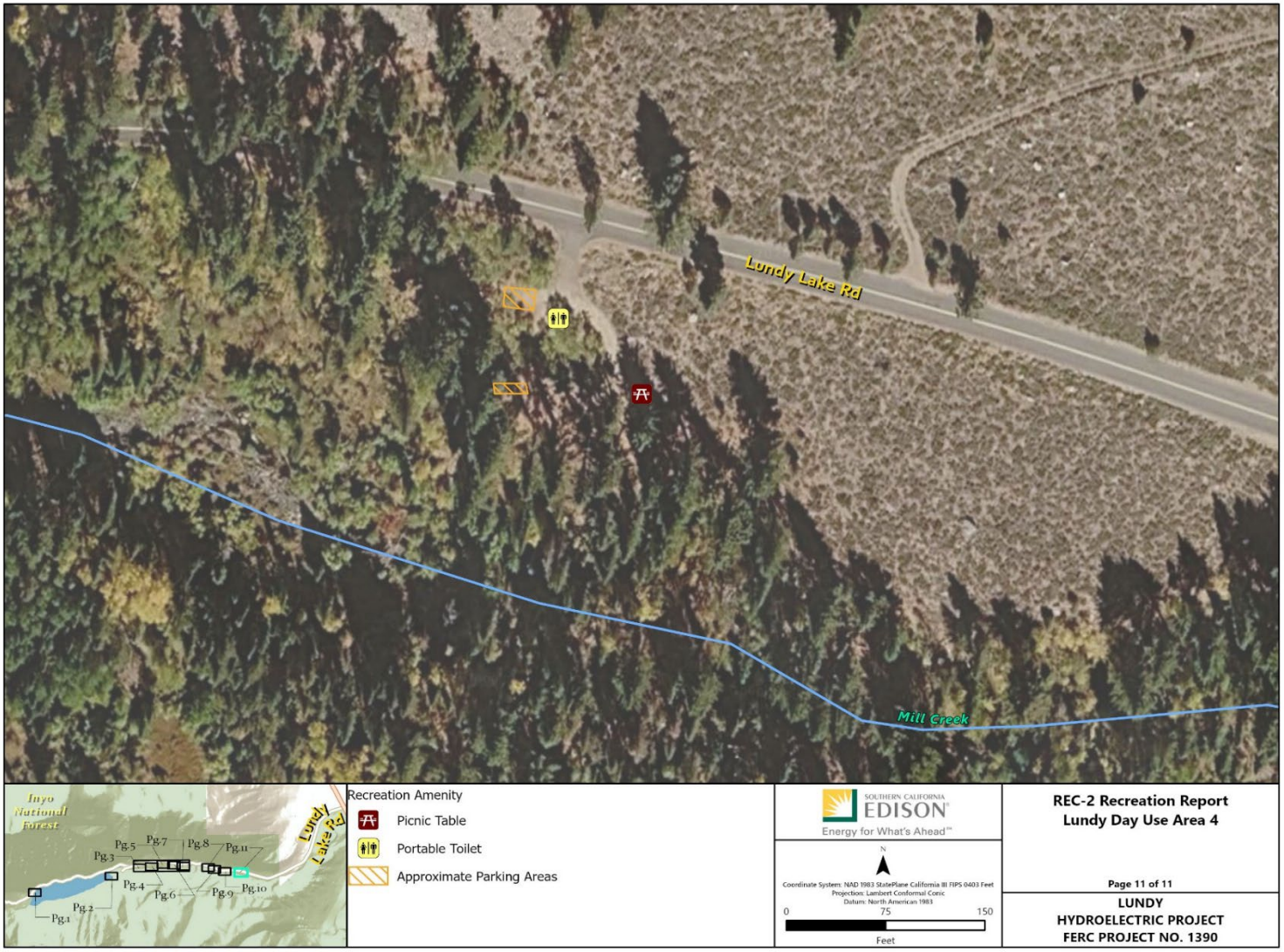


Figure 4.1-11. Lundy Day Use Area 4.

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4.1.7.1. Signage and Wayfinding

There was no signage accounted for at the site.

4.1.7.2. Universal Accessibility

The ADA universal accessibility was assessed at each amenity at Lundy Day Use Area 4 (Table 4.1-7). None of the amenities at the site were ADA accessible.

4.1.7.3. Erosion

No erosion was noted at the Lundy Day Use Area 4 site.

4.2. RECREATION BOATING ACCESSIBILITY ASSESSMENT

4.2.1. USGS GAGE DATA

Water level elevation[1] and storage data from Lundy Lake were collected over 237 days from April 1 to November 23, 2025 (see Appendix B *Lundy Lake Elevation and Storage*). The dataset includes 3,064 elevation readings and 1,920 storage measurements providing comprehensive monitoring with an average of 12.9 observations per day. Water levels peaked in June 2025 at an average elevation of 7,805.84 feet with corresponding storage of 3,868.72 acre-feet. The lake exhibited a mean elevation of 7,791.36 feet over the monitoring period, with a total elevation range of 41.70 feet and storage variation of 4,151.14 acre-feet. Water surface elevation data show a clear seasonal pattern with peak levels occurring in late spring and early summer, followed by a gradual decline through fall. From April through June, elevations rose from 7,780.45 feet to a peak of 7,805.84 feet, then fell to 7,787.98 feet by September. Storage volumes closely tracked these elevation changes, increasing from an April average of 1,070.94 acre-feet to a June peak of 3,868.72 acre-feet before falling to 1,845.21 acre-feet by September. The lake gained 5.31 feet in elevation and 893.97 acre-feet in storage from the first to last week of monitoring.

4.2.2. LUNDY LAKE BOAT LAUNCH FUNCTIONAL LIMITS

Functional limits for the Lundy Lake Boat Launch were determined using design criteria presented in the *Layout & Design Guidelines for Boat Launching Facilities* developed by the California Department of Parks and Recreation, Division of Boating and Waterways (DBW 2021). The guidance provides recommended operating criteria for trailered boat-launch facilities, including a minimum water depth of approximately 3 feet at the ramp toe, a maximum water surface elevation no more than 1 foot below the top of the launch ramp, and a ramp slope not exceeding 15 percent. The guidance also recognizes that water-depth requirements may vary depending on vessel type and draft. Based on these criteria and observed lake elevation data, SCE evaluated the range of impoundment water levels over which the Lundy Lake Boat Launch remains functional for launching and retrieving

[1] Elevations presented in this draft technical report are in National Geodetic Vertical Datum 1929.

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trailered recreational watercraft. Table 4.2-1 summarizes the functional limits applied in this evaluation.

Table 4.2-1. Lundy Lake Boat Launch Functional Limits

Design Categories	Lundy Lake Boat Launch
Length	193.4 feet
Slope	10.5 percent
Material	Concrete Plank
Top Elevation	7807.81 feet NGVD
Toe Elevation	7789.39 feet NGVD

Based on the DBW-supported design criteria (minimum ~3 feet of water depth at the ramp toe and typical ramp slopes of up to 15 percent), the functional elevation limits for the Lundy Lake Boat Launch can be approximated by relating these requirements to the observed elevation–storage trends. Using the 2025 dataset, the lower functional limit is reasonably estimated at approximately 7,792-7,793 feet, corresponding to a storage volume of roughly 2,400-2,500 acre-feet, at which point sufficient depth at the ramp toe is still maintained for trailered launching. The upper functional limit is estimated near 7,792-7,793 feet, corresponding to approximately 4,000-4,100 acre-feet, beyond which ramp crest or staging areas may begin to experience submergence depending on site geometry. Within this range, the lake provides adequate water depth and usable ramp slope consistent with DBW guidance for safe and effective boat launching.

Given the observed seasonal pattern, these elevations occur primarily from late spring through mid-summer, when water levels rise to and remain near peak conditions, with functionality gradually diminishing into late summer and early fall as elevations decline below approximately 7,792 feet.

To evaluate boat launch accessibility during the high use recreation season, daily average lake elevations recorded at the USGS gage (see Appendix B) were compared to the functional elevation limits described above for the period spanning Memorial Day (May 26, 2025) through Labor Day (September 1, 2025), a total of 99 days. Over this period, Lundy Lake elevations ranged from a minimum of 7,788.47 feet on September 1, 2025, to a maximum of 7,808.03 feet on June 19, 2025, with a seasonal mean elevation of 7,799.82 feet. Elevations on Memorial Day were 7,793.13 feet.

Applying the functional envelope of approximately 7,792-7,808 feet, the Lundy Lake Boat Launch was within functional limits on 80 of the 99 days during Memorial Day to Labor Day season. Under the more conservative envelope of 7,792.39-7,807.81 feet, the boat launch was functional on 76 of the 99 days. Under both scenarios, late-season elevations fell below the lower functional limit, indicating that insufficient depth at the ramp toe became a limiting factor near the close of the 2025 recreation season. Under the broader envelope, elevations were below 7,792 feet on 18 days and exceeded 7,808 feet on 1

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day. Under the more conservative envelope, elevations were below 7,792.39 feet on 19 days and exceeded 7,807.81 feet on 4 days.

Reduced accessibility during the season was driven by both short-term high lake levels during the June peak runoff period and late-season drawdown. Elevations exceeded the upper functional limit of 7,807.81 feet for 4 consecutive days from June 17 through June 20, 2025, peaking at 7,808.03 feet on June 19, 2025, during which the ramp crest and staging area may have experienced partial submergence. Following the June peak, elevations generally declined through July and August as the reservoir was drawn down for seasonal operations, remaining within the functional range through much of the summer. Elevations first fell below 7,792.39 feet on August 14, 2025, and declined to approximately 7,788.47 feet by Labor Day, indicating that the boat launch was approaching or below its shallow-water functional threshold by the close of the recreation season.

Overall, the 2025 water year data indicate that the Lundy Lake Boat Launch provided functional trailered boating access for the majority of the Memorial Day through Labor Day season. Limitations were concentrated during the June peak runoff period, when lake levels temporarily exceeded the upper design elevation for the ramp, and during the late-season drawdown period, when lake levels declined below the minimum depth threshold needed to maintain approximately 3 feet of water at the ramp toe.

4.2.3. Recreation Use and Needs Data

As part of REC-1, and consistent with the Commission's Study Plan Determination recommendation, SCE collected visitor perception data at the Lundy Lake Boat Launch and Lundy Dam Day Use Area to evaluate the relationship between impoundment water levels and recreational use. The survey incorporated lake-level preference questions using a normative evaluation approach consistent with Manning (2011), including questions regarding whether lake levels affected recreationists' activities during their visit and how respondents rated the acceptability of lake-level conditions representative of drought, normal, and high water year types. These data were used to characterize visitor perceptions of lake-level conditions and to inform the assessment of potential Project effects on recreation resources at Lundy Lake.

When asked if their visit was affected by the lake level, most respondents at the Lundy Lake Boat Launch and the Lundy Dam Day Use Area, totaling 80.7 percent, indicated that their visit was not affected by the lake level. Eleven respondents, representing 10.1 percent, reported being affected by a lake level that was too low, while two respondents reported being affected by a level that was too high (Table 4.2-2). One respondent provided an "Other" response, noting they visited because the water level was "just right" on the day of their visit (July 27, 2025), though they mentioned it had been too high 1 month earlier.

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Table 4.2-2. Summary of Respondent Impacts Associated with Lundy Lake Level

Site Name	Not Affected	Impacted			Declined to Answer	Total
		Too Low	Too High	Other		
Lundy Lake Boat Launch	48	6	1	0	4	59
Lundy Dam Day Use Area	40	5	1	1	3	50
Total Count	88	11	2	1	7	109
Total Percent (%)	80.7	10.1	1.8	0.9	6.4	100

When asked to rate the acceptability of the lake levels, field technicians showed simulated photos of Lundy Lake at drought (Figure 4.2-1 and Figure 4.2-2), normal (Figure 4.2-3 and Figure 4.2-4), and high (Figure 4.2-5 and Figure 4.2-6) water year types for the Lundy Lake Boat Launch and Lundy Dam Day Use Area. Most respondents rated the normal and high water year type lake levels as “Acceptable” or "Very Acceptable” with a median rating of 4 (Table 4.2-3). Regarding the normal water year type photos, between 51.0 percent and 52.2 percent of respondents rated the lake level as “Acceptable,” while an additional 15.0 percent to 16.0 percent rated it as “Very Acceptable.” The high water year type photos received similar evaluations, with 39.2 percent to 40.0 percent selecting “Acceptable” and 33.3 percent to 39.2 percent selecting “Very Acceptable.”

In contrast, the photos of the drought water year type received lower acceptability ratings. At the Lundy Lake Boat Launch, 61.6 percent of respondents rated the drought water year type level as either “Unacceptable” or “Very Unacceptable,” while 42.5 percent of respondents at the Lundy Dam Day Use Area also selected “Unacceptable” or “Very Unacceptable.” The median rating for the drought water year type photos was 2 at the Lundy Lake Boat Launch and 3 at the Lundy Dam Day Use Area, reflecting more mixed responses at the Lundy Dam Day Use Area.

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Figure 4.2-1. Simulated Drought Water Year Type for Lundy Lake Boat Launch.



Figure 4.2-2. Simulated Drought Water Year Type for Lundy Dam Day Use Area.

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Figure 4.2-3. Simulated Normal Water Year Type for Lundy Lake Boat Launch.



Figure 4.2-4. Simulated Normal Water Year Type for Lundy Dam Day Use Area.

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Figure 4.2-5. Simulated High Water Year Type for Lundy Lake Boat Launch.



Figure 4.2-6. Simulated High Water Year Type for Lundy Dam Day Use Area.

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Table 4.2-3. Percentage of Respondents Giving Ratings (1-5) for Lundy Lake Level

Water Year Type	Site Name	Total Responses	Median	1	2	3	4	5
				Very Unacceptable	Unacceptable	Neutral	Acceptable	Very Acceptable
Drought	Lundy Lake Boat Launch	52	2	15.4	46.2	26.9	11.5	0
	Lundy Dam Day Use Area	47	3	8.5	34	31.9	23.4	2.1
Normal	Lundy Lake Boat Launch	51	4	2	2	29.4	51	15.7
	Lundy Dam Day Use Area	46	4	2.2	8.7	21.7	52.2	15.2
High	Lundy Lake Boat Launch	51	4	0	3.9	17.6	39.2	39.2
	Lundy Dam Day Use Area	45	4	4.4	11.1	11.1	40	33.3

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4.3. CONSISTENCY WITH INYO NATIONAL FOREST LAND MANAGEMENT PLAN

The Land Management Plan (LMP) for the Inyo National Forest (USFS, 2019) provides direction for managing recreation resources within Lundy Canyon. The existing FERC-approved recreation sites at the Lundy Project provide a range of developed recreation opportunities, including camping, boating access, picnicking, fishing access, lakeshore access, and day use recreation. Recreation facilities documented during REC-2 include the Lundy Campground, Lundy Lake Boat Launch, Lundy Dam Day Use Area, and four additional Day Use Areas. These sites provide developed recreation amenities including campsites, boat launching facilities, picnic tables, restrooms, parking areas, signage, fire rings, bear proof food storage, and lake access. The recreation site types and associated amenities provided within the Project Boundary are consistent with the Destination Recreation Area management direction of the Inyo National Forest LMP, which emphasizes developed recreation opportunities supported by recreation facilities, amenities, services, parking areas, and restrooms that accommodate a variety of recreational activities.

5.0 DISCUSSION

REC-2 met its objective to field verify, map, and document FERC-approved recreation facilities and amenities by conducting inventories at all seven recreation sites within the Lundy Project Boundary. Data collected during field investigations documented the location, type, quantity, and distribution of recreation facilities and amenities at each site, including boating facilities, campsites, picnic areas, restrooms, signage, parking areas, fire rings, and bear boxes. The resulting site inventories and maps provide a comprehensive and current baseline of existing recreation infrastructure within the Project Boundary.

The objective to document the general condition of FERC-approved recreation facilities and amenities, including the potential for universal accessibility where feasible, was met through condition assessments and accessibility evaluations completed for all inventoried facilities and amenities. The data identified the overall condition of each recreation feature and documented facilities requiring maintenance, repair, or replacement. Accessibility observations were also recorded for individual amenities, establishing a baseline understanding of existing accessibility conditions throughout the Project.

The study met its objective to identify ownership, operation, and maintenance responsibilities for FERC-approved recreation sites by documenting management responsibilities during field inventories and review of existing agreements. The data confirmed ownership of recreation facilities and clarified the roles of SCE and Mono County in the operation and maintenance of recreation resources. These findings provide a clear understanding of existing recreation management responsibilities within the Project Boundary.

The objective of assessing the accessibility and usability of the Lundy Lake Boat Launch under existing Project operations was met through analysis of lake elevation data, boat

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launch characteristics, and recreation use information collected as part of REC-1. Water level monitoring data documented seasonal fluctuations in lake elevations and provided the basis for evaluating boat launch functionality under existing operating conditions. Comparison of observed water levels with accepted boat launch design criteria indicated that the facility remained functional for the majority of the Memorial Day through Labor Day recreation season, with only temporary limitations occurring during peak runoff conditions in June, when lake elevations exceeded the upper design elevation of the ramp, and during the late-season drawdown period, when lake elevations declined below the minimum depth threshold needed to maintain approximately 3 feet of water at the ramp toe. Recreation user survey results further support these findings, as most respondents reported that lake levels did not affect their recreation experience and generally rated normal and high water conditions as acceptable. Together, these data provide a baseline understanding of how existing Project operations influence recreational boating access at Lundy Lake and indicate that existing operations generally support functional trailered boating access throughout most recreation season conditions.

Collectively, the study results demonstrate that all study objectives were achieved and that sufficient data were collected to characterize existing recreation resources, facility conditions, accessibility characteristics, management responsibilities, and recreational access opportunities within the Lundy Project Boundary.

6.0 REFERENCES

CM (County of Mono) and SCE (Southern California Edison). 2023. License Agreement (Contract No. 9.1629) for Lundy Canyon Campground, Lundy Lake Boat Ramp, and Mill Creek Day Use Areas. Executed November9, 2023 and November 13, 2023.

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APPENDIX A

RECREATION SITE INVENTORY FORM

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LUNDY PROJECT

RECREATION SITE INVENTORY FORM

Observed by:_____Date/Time: _____

Site Name:_____ GPS Coordinates:_____

Facility Type:

O Campground **O** Day Use Area **O** Picnic Area

O Trailhead **O** Boat Launching Area **O** Informal Site

Road Access: Condition Description (N-replace, R-repair, M-maintain, G-good)

:_____

O Paved access # lanes _____

O Unpaved access # lanes _____

Parking Lots: Condition Description (N-replace, R-repair, M-maintain, G-good):

_____

Type	# Paved	# Estimated Gravel	Space Delineation
Universal Access Spaces	_____	_____	**O** Painted **O** Curbs **O** Signage
Regular Spaces	_____	_____	**O** Painted **O** Curbs **O** Signage
Vehicle & Trailer Spaces	_____	_____	**O** Painted **O** Curbs **O** Signage

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Operations:

O Staffed O Unstaffed O Seasonal (From _____To_____)

O Fee: (Site $_____; Parking $_____) O Year Round

Operating Hours_____ Owner/Manager_____

Project Facility: _____ Within FERC Project boundary?_____

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Day Use Site Amenities (total # of all amenities per site; provide additional specifications on next page):

#	Type	Condition (N-replace, R-repair, M-maintain, G-good)	Universal Access
_____	Picnic Shelter	_____	
_____	Overlook	_____	
_____	Picnic Tables	_____	
_____	Pedestrian Trail	_____	
_____	Boating Prep Area	_____	
_____	Trash Receptacles	_____	
_____	Grills	_____	
_____	Fishing Pier/Platform	_____	
_____	Firepit/ring	_____	
_____	Fishing Prep Area	_____	
_____	Safety Signage	_____	
_____	Restrooms	_____	
_____	Information Kiosk	_____	

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_____ Informational Signage _____

_____ Benches _____

_____ Dumping Station _____

_____ Potable Water _____

_____ Playground _____

Other
(specify)_____
_

_____
_____

Boat Launch Facilities: Condition Description (N-replace, R-repair, M-maintain, G-good): _____

O Hard surface **O** Unimproved (informal) **O** Gravel **O** Carry In

OUniversal Access **O** Boat Prep Area _____ # of Lanes

Courtesy/Fishing Docks: Condition Description (N-replace, R-repair, M-maintain, G-good):
_____

O Courtesy Dock **O** Fishing Dock Dimensions:_____ **O** Universal Access

O Courtesy Dock **O** Fishing Dock Dimensions:_____ **O** Universal Access

---

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Trails (within the recreation area): Condition Description (N-replace, R-repair, M-maintain, G-good):

_____

Type:_____ Length (ft):_____ Condition: _____ **O** Universal Access

Type:_____ Length (ft):_____ Condition: _____ **O** Universal Access

Type:_____ Length (ft):_____ Condition: _____ **O** Universal Access

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Interpretive/Site Information: Condition Description (N-replace, R-repair, M-maintain, G-good): _____

____ No. of Displays

O Boating Safety O Invasive Species O Fishing Regulations O Fish Type

O Regional Events O Other (specify)_____

Signage: Condition Description (N-replace, R-repair, M-maintain, G-good):
_____

O Part 8 O Directional o Informational o Other

Sanitation Facilities: Condition Description (N-replace, R-repair, M-maintain, G-good):
_____

	# Flush	(# UA*)	# Portable	(# ADA)	Showers	(#UA)
Unisex	_____	(_____)	_____	(_____)	_____	(_____)
Women	_____	(_____)	_____	(_____)	_____	(_____)
Men	_____	(_____)	_____	(_____)	_____	(_____)

**UA = Universal Access*

Campground/Campsite: Condition Description (N-replace, R-repair, M-maintain, G-good):
_____

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	Tent-improved	**Tent-Primitive**	**Group Sites**	**Camps/Cabins**	**RV Sites**
# of sites					
On site parking					
Waterfront					
Universal Access					

Observed Vegetation and Erosion Impacts:

_____ Cut trees for fires

_____ Trampled vegetation

_____ Mowed areas

_____ Trees damaged by people

_____ Trees damaged by environment

_____ Areas of noticeable erosion

_____ None

Description of Observations/Evidence of Vegetation Impacts:

_____
_____
_____

Description of Observations/Evidence of Erosion:

_____
_____

Evidence of use at site: _____

(C) Compaction, (E) Erosion, (G) Garbage, (GD) Ground disturbance, (HW) Human waste, (UI) Unauthorized improvements, (V) Vandalism, (VR) Vegetation removal, (O) Other (Specify)

Evidence of Overcrowding: _____

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(A) Anecdotal information, (FA) facility/amenity @ capacity, (I) improper parking, (S) Signage, (SD) Site degradation, (U) Unauthorized sites, (W) Waiting lines, (O) Other (Specify)

Notes (including general condition, any restrictions/alerts, such as boating use, invasive species, etc.):

_____

_____

_____

_____

_____

_____Photo number from _____ to _____

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Sketch of Site and Facilities:

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APPENDIX B

LUNDY LAKE ELEVATION AND STORAGE

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From:	Finlay Anderson
To:	graham.meese@wildlife.ca.gov
Cc:	Matthew Woodhall; Angela Whelpley
Subject:	Lundy Lakes Recreation Assessment - Study Plan Implementation
Date:	Wednesday, March 19, 2025 5:00:18 PM
Attachments:	REC-2 Memo to CDFW-Proposed Study Plan Modification.pdf 20250102-3061_P-1390-069 Study Plan Determination.pdf jan 2 (1).pdf Outlook-Logo__Desc

---

Hi Graham --

SCE is gearing up for the recreation season, and is trying to make plans to meet study objectives identified in FERC's Study Plan Determination. One of the methods that FERC recommended for addressing a question that CDFW raised included installing a staff gage on the west end of Lundy Lake.

SCE does not feel this is necessary to achieve the goals of the study, but wanted to double check with CDFW to see if there is a concern with utilizing existing infrastructure. The attached memo outlines the question and the reasons why SCE believes installation of a gage is not warranted. I've also included the study plan determination for your convenience.

Can you confer with your colleagues and let us know what you think? Happy to arrange a call if necessary. We are hoping to resolve this question by the end of the month.

Thanks
FMA

Finlay Anderson
Principal Consultant
Kleinschmidt
O: 971.345.0517 C: 503.329.3586
Follow us on LinkedIn
We provide practical **solutions** *for renewable energy, water and environmental projects!*

From: Meese, Graham@Wildlife
To: Finlay Anderson
Cc: Matthew Woodhall; Angela Whelpley
Subject: RE: Lundy Lakes Recreation Assessment - Study Plan Implementation
Date: Thursday, March 20, 2025 8:19:12 PM

HI Finlay,
Thank you for reaching out to discuss the objectives of the study CDFW proposed to assess how project operations affect the recreational values of Lundy Lake. I've reviewed the attached memo dated March 19, 2025 requesting CDFWs concurrence on the use of the existing gage at dam to measure lake levels instead of installing an additional staff gage at the western side of the lake. So long as SCE continues to collect data at the dam at a timestep of 24 hours or less and can corelate these measurements to the lake elevation, I agree with the points made by SCE in the memo that an additional temporary staff gage is not needed to accomplish the goals of the study. Please let me know if you have any additional questions or concerns.

Best,

Graham Meese
California Department of Fish and Wildlife
Habitat Conservation Program Supervisor
Eastern Sierra - Region 6
(760) 996-7387

From: Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>
Sent: Wednesday, March 19, 2025 2:00 PM
To: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Cc: Matthew Woodhall <matthew.woodhall@sce.com>; Angela Whelpley <Angela.Whelpley@KleinschmidtGroup.com>
Subject: Lundy Lakes Recreation Assessment - Study Plan Implementation

WARNING: This message is from an external source. Verify the sender and exercise caution when clicking links or opening attachments.

Hi Graham --

SCE is gearing up for the recreation season, and is trying to make plans to meet study objectives identified in FERC's Study Plan Determination. One of the methods that FERC recommended for addressing a question that CDFW raised included installing a staff gage on the west end of Lundy Lake.

SCE does not feel this is necessary to achieve the goals of the study, but wanted to double check with CDFW to see if there is a concern with utilizing existing infrastructure. The

attached memo outlines the question and the reasons why SCE believes installation of a gage is not warranted. I've also included the study plan determination for your convenience.

Can you confer with your colleagues and let us know what you think? Happy to arrange a call if necessary. We are hoping to resolve this question by the end of the month.

Thanks
FMA

Finlay Anderson

Principal Consultant

Kleinschmidt

O: 971.345.0517 C: 503.329.3586

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MEMORANDUM

To:	Graham Meese, California Department of Fish and Wildlife (CDFW)
From:	Kleinschmidt Associates, on behalf of Southern California Edison (SCE)
Cc:	Matthew Woodhall, SCE
Date:	March 19, 2025
Re:	Consultation on Staff Gage Data Collection as part of the REC-2 Study

Introduction

On January 2, 2025 the Federal Energy Regulatory Commission (FERC) issued a Study Plan Determination (SPD) for the Lundy Hydroelectric Project, P-1390. The SPD recommended modification to SCE's proposed Recreation Inventory and Condition Assessment Study (REC-2). The Recommendations were in response to requests by the California Department of Fish and Wildlife (CDFW) to consider the Lundy Lake as a recreational component and that SCE assess how project operations affect Lundy Lake levels, specifically during the peak summer recreation season between Memorial Day and Labor Day. SCE intends to modify its REC-2 study to meet the objectives of CDFW; however, this memorandum seeks concurrence from CDFW to not adopt all of FERC's recommended methods, as described below.

FERC Recommendations

CDFW requested that the analysis should identify potential recreational impacts at various lake levels as well as identify how normal project operations cause changes in lake levels and associated potential impacts on recreational facilities at a daily timestep. FERC responded to this request by recommending that SCE install a temporary staff gage on the west side of Lundy Lake. FERC recommended that data should be collected at intervals comparable to the USGS-approved gage located near the dam to determine the difference in lake levels across the lake.

No Need for Staff Gage

FERC's intent for the installation of a temporary staff gage at the west side of the lake is to "understand how lake levels differ between the east side of Lundy Lake where the dam and the water-level gage operates, and the west side of Lundy Lake where the only project boat launch on Lundy Lake exists". SCE believes that this question is not germane to the question that CDFW has asked and intends instead to utilize the existing gage at the dam to report on daily reservoir elevation throughout the recreation season.

SCE does not believe there is any reason to conclude that the water surface elevation (WSE) at one side of the lake varies substantially from the WSE at the other end: there are no hydraulic controls that would create a grade-line, and the water body is too small

to anticipate deviations that could be measurable with standard equipment or which would be meaningful in terms of the FERC's goal to obtain user-preference data. Compounding the fundamental question of whether gage would yield useful information, SCE has the following concerns with the installation of a new gage system:

- The new gage system requires a reliable power source, which may necessitate additional infrastructure development in remote areas of the lake. This may involve environmental impact and potential disruptions to the existing ecosystem.
- Telemetry and accessing data present several challenges that can impact the efficiency and reliability of the data.
- Identifying and securing an optimal location for the new gage that provides comprehensive coverage of the lake levels on the shallowing, west side of the lake could be challenging.

The existing staff gage infrastructure located at the Lundy Lake Dam can achieve the same data collection objectives as the new gage system suggested by FERC. This proposal is based on the following points:

- **Accuracy and Reliability:** The current staff gage has been consistently calibrated and maintained to ensure accurate readings. Historical data from this gage has shown reliable correlation with actual lake levels. This gage data has been used to communicate with water-rights holders for decades.
- **Comprehensive Coverage:** The strategic location of the existing staff gage allows it to effectively monitor water levels at critical points, including the dam and the boat launch.
- **Cost-Effectiveness:** Utilizing the existing infrastructure eliminates the need for additional resource allocation and minimizes environmental impact.

SCE believes that leveraging the existing staff gage infrastructure will provide a cost-effective and environmentally friendly solution to achieve the desired lake level monitoring objectives.

Request for Concurrence

SCE believe that there is a compelling case that the objectives added by FERC can be met without the addition of the temporary gage. However, before making this modification, SCE wishes to verity with you that our proposed method of data gathering will meet your intended objectives for the study (i.e., assessing how project operations affect Lundy Lake levels, specifically during the peak summer recreation season between Memorial Day and Labor Day). SCE, therefore, requests your comments and concurrence on the proposal to only utilize the existing staff gage infrastructure for lake level monitoring at Lundy Lake.

SCE is committed to working collaboratively to ensure the successful implementation of this study.

Should you require any further information or have any questions, please do not hesitate to contact Matthew Woodhall or Finlay Anderson.

\\EgnyteDrive\Kleinschmidt\Jobs\3202\008\Docs\Study Planning\Final Study Plans\REC-2 Memo to CDFW.docx

SOUTHERN CALIFORNIA EDISON
Lundy Hydroelectric Project
(FERC Project No. 1390)



PROJECT LANDS AND ROADS STUDY
(LAND-1)
DRAFT TECHNICAL REPORT

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SOUTHERN CALIFORNIA EDISON

Lundy Hydroelectric Project
(FERC Project No. 1390)

PROJECT LANDS AND ROADS STUDY
(LAND-1)
DRAFT TECHNICAL REPORT

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

October 2026

TABLE OF CONTENTS

Page

1.0 Introduction 1
1.1. Review of Existing Information 1
2.0 Study Goals and Objectives 1
2.1. Study Area 2
3.0 Methods 2
4.0 Study Results 3
4.1. Existing Project Boundary Review 3
4.2. Land Ownership 11
4.3. Project Roads 17
4.3.1. Inventory and Condition Assessment 17
4.4. Existing Project Facilities 19
5.0 Discussion 20
6.0 References 21

LIST OF TABLES

Table 4.1-1. Proposed FERC Project Boundary Changes Related to Operations/Facilities 4
Table 4.1-2. Proposed FERC Project Boundary Changes Related to Project Roads Inventory 4
Table 4.3-1. Inventory and Condition Assessment of Roads within the Project Boundary 18
Table 4.4-1. Lundy Project Facilities and Structures 19

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LIST OF FIGURES

Figure 4.1-1. Lundy Lake. 5

Figure 4.1-2. Lundy Lake Dam. 6

Figure 4.1-3. Lundy Lake Campground. 7

Figure 4.1-4. Lundy Lake Day Use Areas. 8

Figure 4.1-5. Powerhouse. 9

Figure 4.1-6. Mill Creek Return Ditch. 10

Figure 4.2-1. Private Land Ownership within the Existing FERC Project Boundary. 12

Figure 4.2-2. Inyo National Forest Land Ownership within the Existing FERC Project Boundary. 13

Figure 4.2-3. Mono County Land Ownership within the Existing FERC Project Boundary. 14

Figure 4.2-4. Bureau of Land Management Land Ownership within the Existing FERC Project Boundary. 15

Figure 4.2-5. Southern California Edison Land Ownership within the Existing FERC Project Boundary. 16

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LIST OF ACRONYMS AND ABBREVIATIONS

ABA	Architectural Barriers Act
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
CPUE	catch per unit effort
DC	desired conditions
FERC	Federal Energy Regulatory Commission
GDL	guidelines
GOAL	goals
MA-DRA	management area-destination recreation area
MA-GRA	management area-general recreation area
OBJ	objectives
Project	Lundy Hydroelectric Project (FERC Project No. 1390)
QA	quality assurance
QC	quality control
REC-FW	Recreation-forest wide
SCE	Southern California Edison
STD	standards
TWG	Technical Working Group
USFS	U.S. Forest Service

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1.0 INTRODUCTION

Southern California Edison (SCE) is the owner of the Lundy Hydroelectric Project (FERC No. 1390, "Project"). The Project is being relicensed utilizing the Integrated Licensing Process (ILP) described under 18 CFR Part 5, pursuant to Sections 14 and 15 of the Federal Power Act. During the study planning process, SCE identified the need to conduct a Project Lands and Roads Study (LAND-1) to evaluate the current lands and roads needed for Project operations and maintenance. FERC addressed the proposed study in its January 2, 2025, Study Plan Determination (SPD), approving the LAND-1 Project Lands and Roads Study Plan. This Draft Technical Report includes a summary of the collected and analyzed data for LAND-1, which will inform the Draft License Application.

1.1. REVIEW OF EXISTING INFORMATION

The following existing information and data sources have been reviewed to guide the analysis:

- Approved FERC Project boundary geographic information system (GIS) data
- Approved Project exhibit drawings
- Mono County tax parcel GIS data
- Federal land ownership GIS data
- Aerial imagery
- Lundy Lake Resort (LLR), Thomas Wragg, Patricia Wragg, and Haley Wragg License Agreement (LLR, 2023)
- County of Mono (CM), License Agreement (CM, 2024)
- Land Management Plan for the Inyo National Forest (USFS, 2019)

2.0 STUDY GOALS AND OBJECTIVES

The goal of LAND-1 is to assess potential modifications to the FERC Project boundary to account for future Operation & Management (O&M) of Project facilities. To meet this goal, the study objectives are as follows:

- Identify whether additional Lundy Project lands may be needed for operation of the Project, including laydown and spoil areas, or whether current Project lands or facilities are no longer needed for Project operation.
- Confirm existing land ownership and federal lands within the existing FERC Project boundary are accurately represented.

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- Identify which roads or access trails are used for access to and maintenance of the Project, and identify existing agreements related to maintenance of those roads and access trails.

- Inventory and assess the condition of those identified Project-related roads and access trails, including the potential need for improvements.

- Identify, for purposes of describing in the License Application, all Project facilities and structures used for hydroelectric generation (e.g., buildings, roads, and spillway).

2.1. STUDY AREA

The study area included lands within the existing FERC Project boundary, as well as additional lands identified by SCE staff, that may be needed to support Lundy Project O&M activities under the proposed action.

3.0 METHODS

To ensure that the FERC Project boundary conforms to 18 CFR §4.41 requirements, the following methods were implemented to assess the current Lundy Project:

- Assess the existing FERC Project boundary for accuracy.
  - Analyze the existing FERC Project boundary using GIS software to determine whether mapping errors or omissions are present in the representation of Project lands needed for operation under the current licenses.

- Assess existing Project lands ownership and lease agreements information.
  - Gather accurate land ownership and lease agreement data for existing Project lands to confirm ownership boundaries and representation of federal lands used for Project purposes.

- Consult with SCE O&M staff to determine whether the existing FERC Project boundary adequately encompasses all lands needed for current operations or any proposed changes to facilities or operations.

- Consult with SCE and U.S. Forest Service (USFS) staff to identify roads or access trails that may be used for Project purposes, such as for O&M of Project facilities or access to Project-related recreation opportunities.

- Assess the condition of roads or access trails identified for Project purposes.

Methods included consultation with USFS and/or other landowners as needed to determine if other Project-related resource areas should be removed or included in the FERC Project boundary. Results of other studies conducted as part of this relicensing will be reviewed for potential modifications to the FERC Project boundary.

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4.0 STUDY RESULTS

4.1. EXISTING PROJECT BOUNDARY REVIEW

Based on a review of available data and conversations with SCE O&M staff to date, a list of proposed changes to the existing FERC Project boundary has been developed (Table 4.1-1 and Table 4.1-2). Proposed changes are primarily related to ensuring that all current Project operations and facilities are adequately encompassed, including current and proposed Project roads. Minor changes to the FERC Project boundary due to mapping corrections based on improved accuracy of available data can be expected but are not discussed in this technical report. Examples of mapping corrections include improved centerlines and buffers for roads, flowlines, or creeks that are included in the FERC Project boundary but not accurately represented in the GIS data.

This LAND-1 technical report focuses on those proposed changes to Project lands for features that are either not currently included in the FERC Project boundary under the existing license (i.e., proposed lands to be added into the existing Project boundary) or no longer needed for Project purposes (i.e., lands proposed to be removed from the existing Project boundary). Table 4.1-1 and Table 4.1-2 list each FERC Project boundary change currently proposed by SCE. For each proposed change, a unique ID and figure reference (corresponding to Figure 4.1-1 through Figure 4.1-6), short description, suggested action, and reason for the proposed change to the FERC Project boundary, if applicable, is provided.

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Table 4.1-1. Proposed FERC Project Boundary Changes Related to Operations/Facilities

ID	Figure Reference	Current Description	Proposed Action	Reason for Proposed FERC Project Boundary Change
Operations/ Facilities – 1	Figure 4.1-1	Project boundary around Lundy Lake	Adjust Project boundary around lake to maximum full pool elevation (7813' NAVD 88).	Include lands only necessary for Project O&M purposes.

Table 4.1-2. Proposed FERC Project Boundary Changes Related to Project Roads Inventory

ID	Figure Reference	Current Description	Proposed Action	Reason for Proposed FERC Project Boundary Change
Roads – 1	Figure 4.1-2	Lundy Dam	Extend Project boundary to include access roads to Lundy Dam and Lundy Day Use Areas	Used exclusively for Project O&M purposes
Roads – 2	Figure 4.1-2	Weather station	Extend Project boundary to include weather station and access road.	Used exclusively for Project O&M purposes
Roads – 3	Figure 4.1-3, Figure 4.1-4	Recreation areas	Remove lands between Lundy Lake Campground and Lundy Day Use Area 1 not associated with recreation at the Project	Lands not needed exclusively for Project purposes. Lundy Lake Road is a public access road not needed for project purposes.
Roads – 4	Figure 4.1-4	Recreation areas	Remove land not needed for Lundy Day Use Area 4	Not needed exclusively for recreation access
Roads – 5	Figure 4.1-5	Sand trap access road	Extend Project boundary to include access road to the sand trap.	Used exclusively for Project O&M purposes
Roads – 6 Roads – 7	Figure 4.1-6	Return ditch access	Extend Project boundary to include 2 Mill Creek Return Ditch access roads.	Used exclusively for Project O&M purposes

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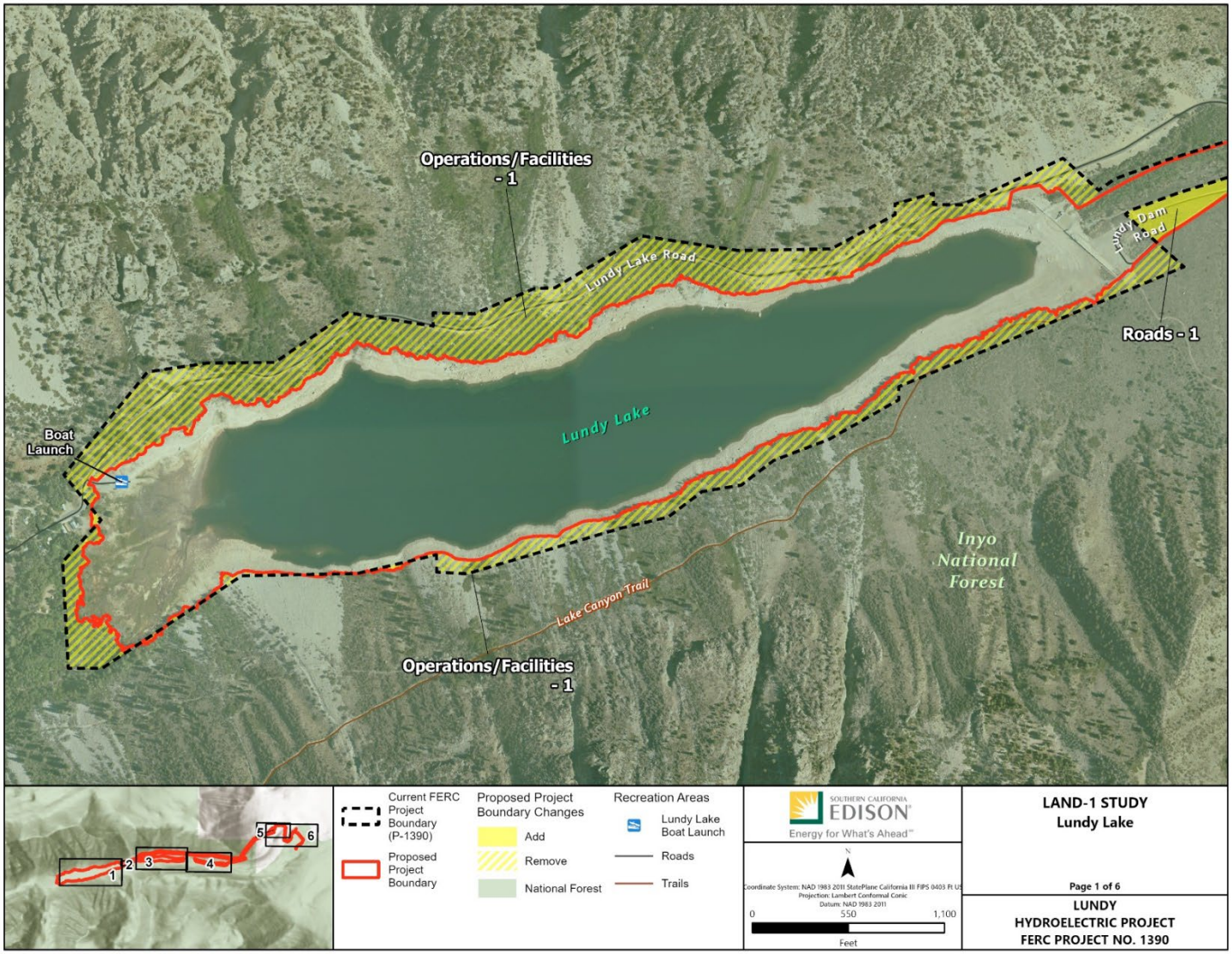


Figure 4.1-1. Lundy Lake.

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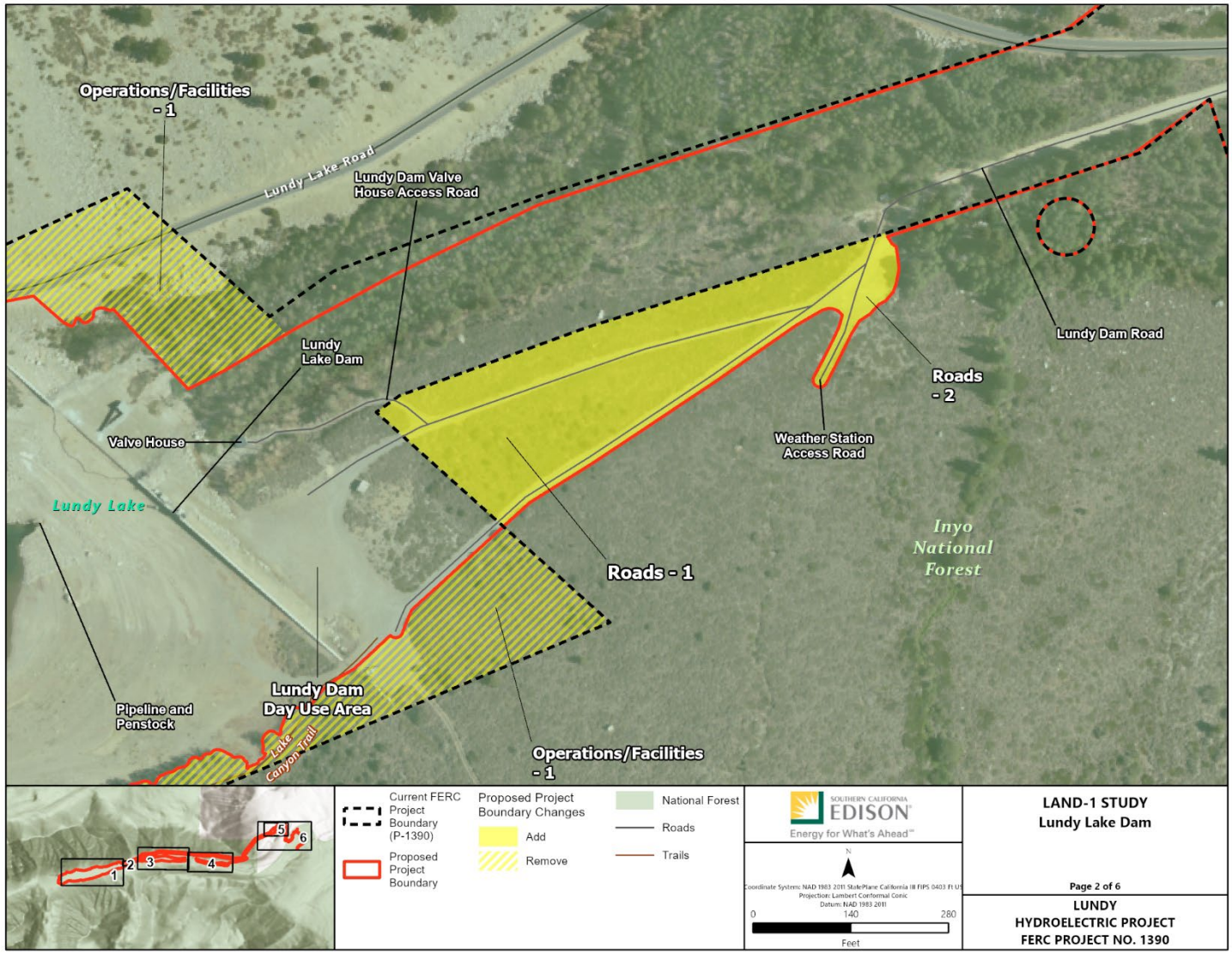


Figure 4.1-2. Lundy Lake Dam.

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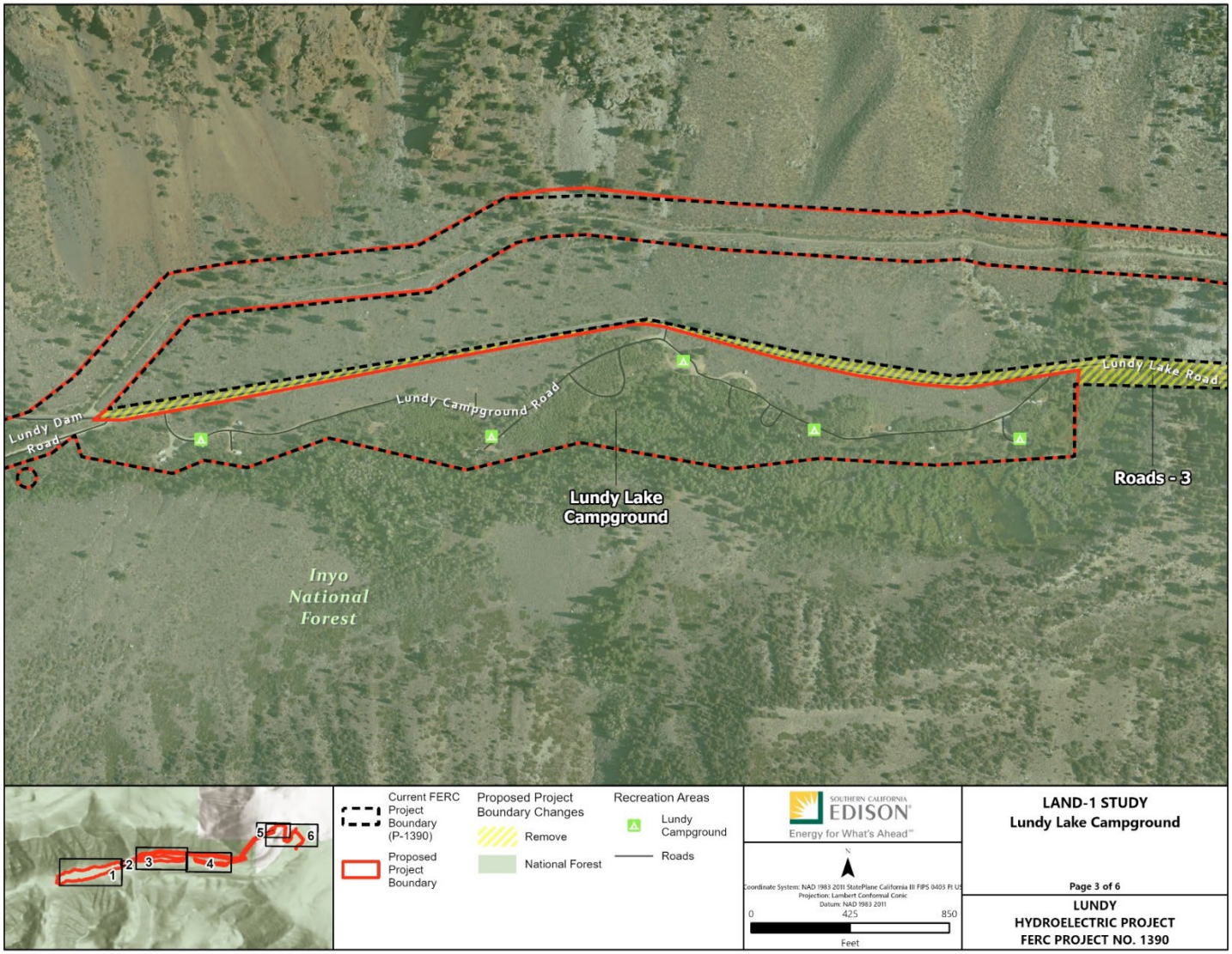


Figure 4.1-3. Lundy Lake Campground.

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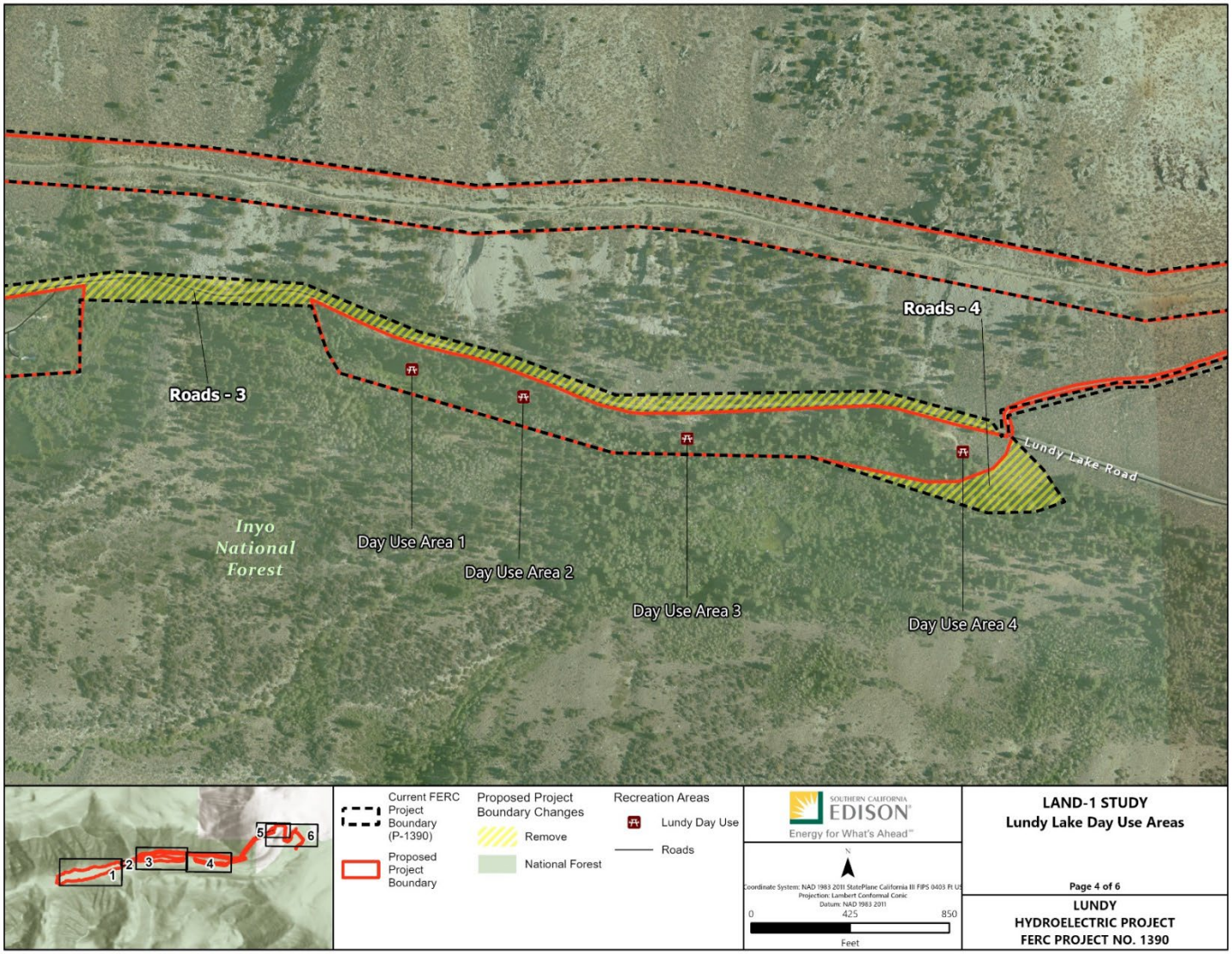


Figure 4.1-4. Lundy Lake Day Use Areas.

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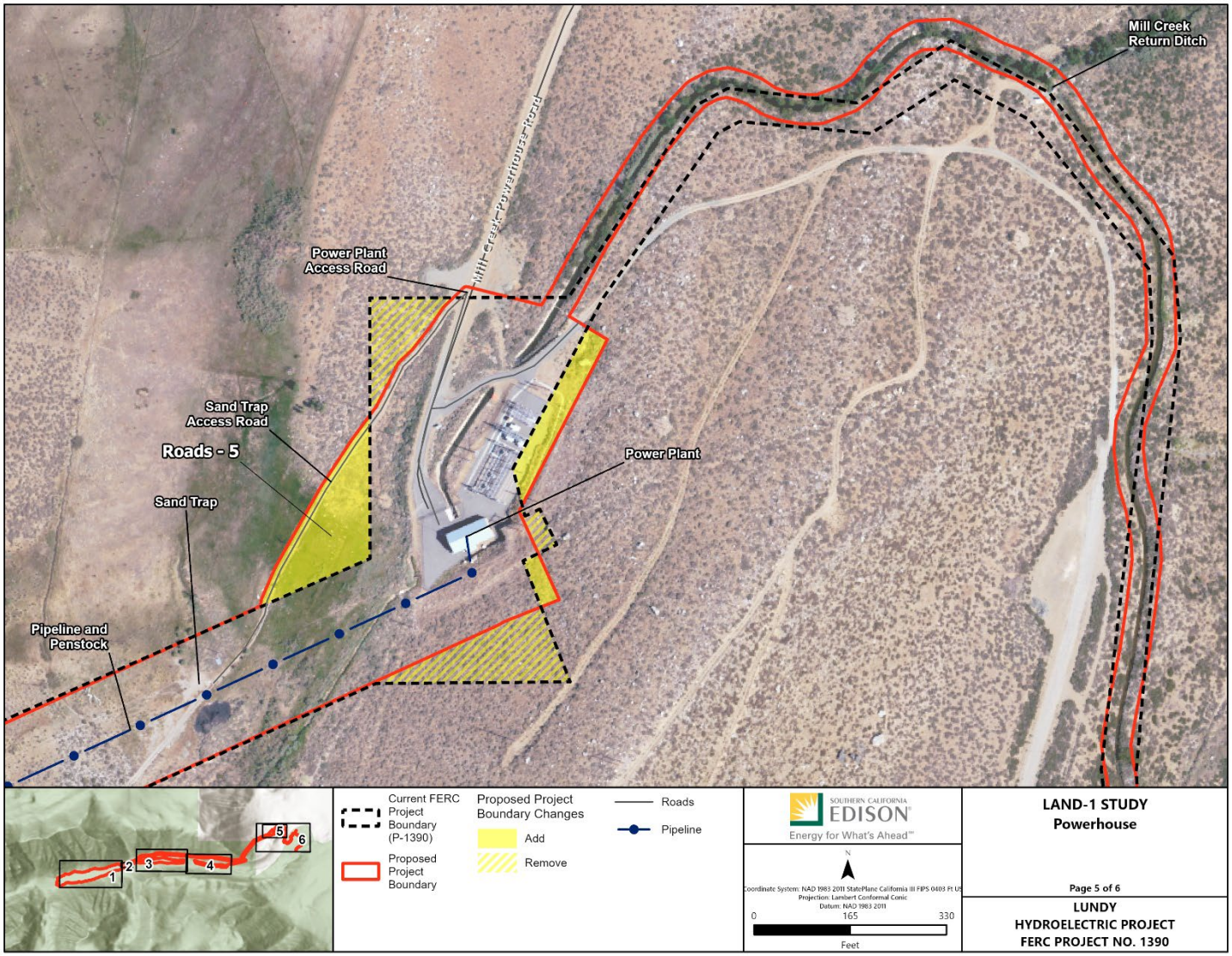


Figure 4.1-5. Powerhouse.

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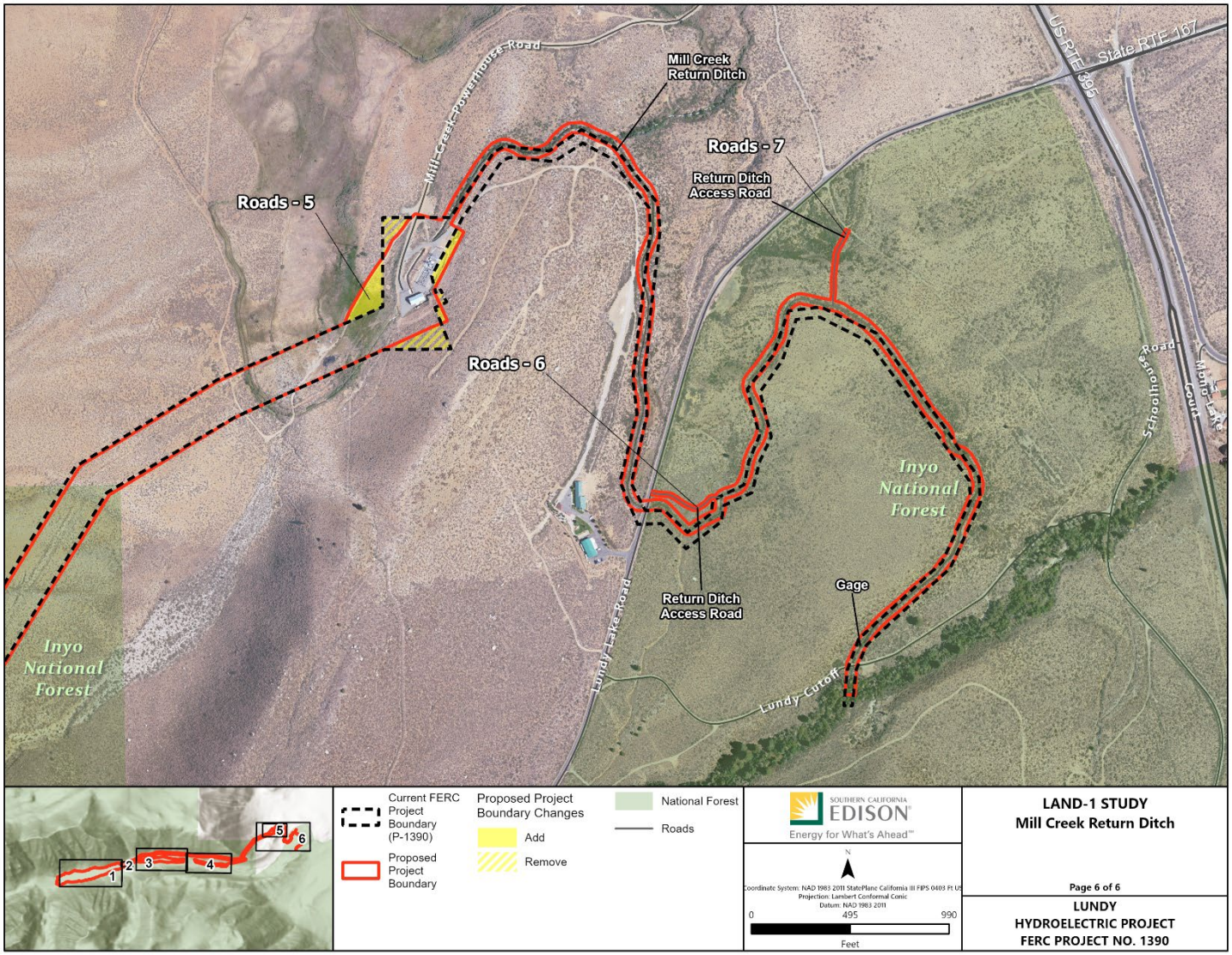


Figure 4.1-6. Mill Creek Return Ditch.

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4.2. LAND OWNERSHIP

A review of the existing FERC Project boundary in relation to the current boundary of the Inyo National Forest and most recent Mono County tax parcels revealed that there are approximately 1.2 acres of private land within the Project boundary (Figure 4.2-1) along with approximately 46.8 acres of USFS land (Figure 4.2-2), a small portion (approximately 1.1 acres) of Mono County land (Figure 4.2-3), a small portion (approximately 2.8 acre) of Bureau of Land Management (BLM) land (Figure 4.2-4), and SCE owns the remaining 277.5 acres of land in the total 329.4 acres within the existing Project boundary (Figure 4.2-5).

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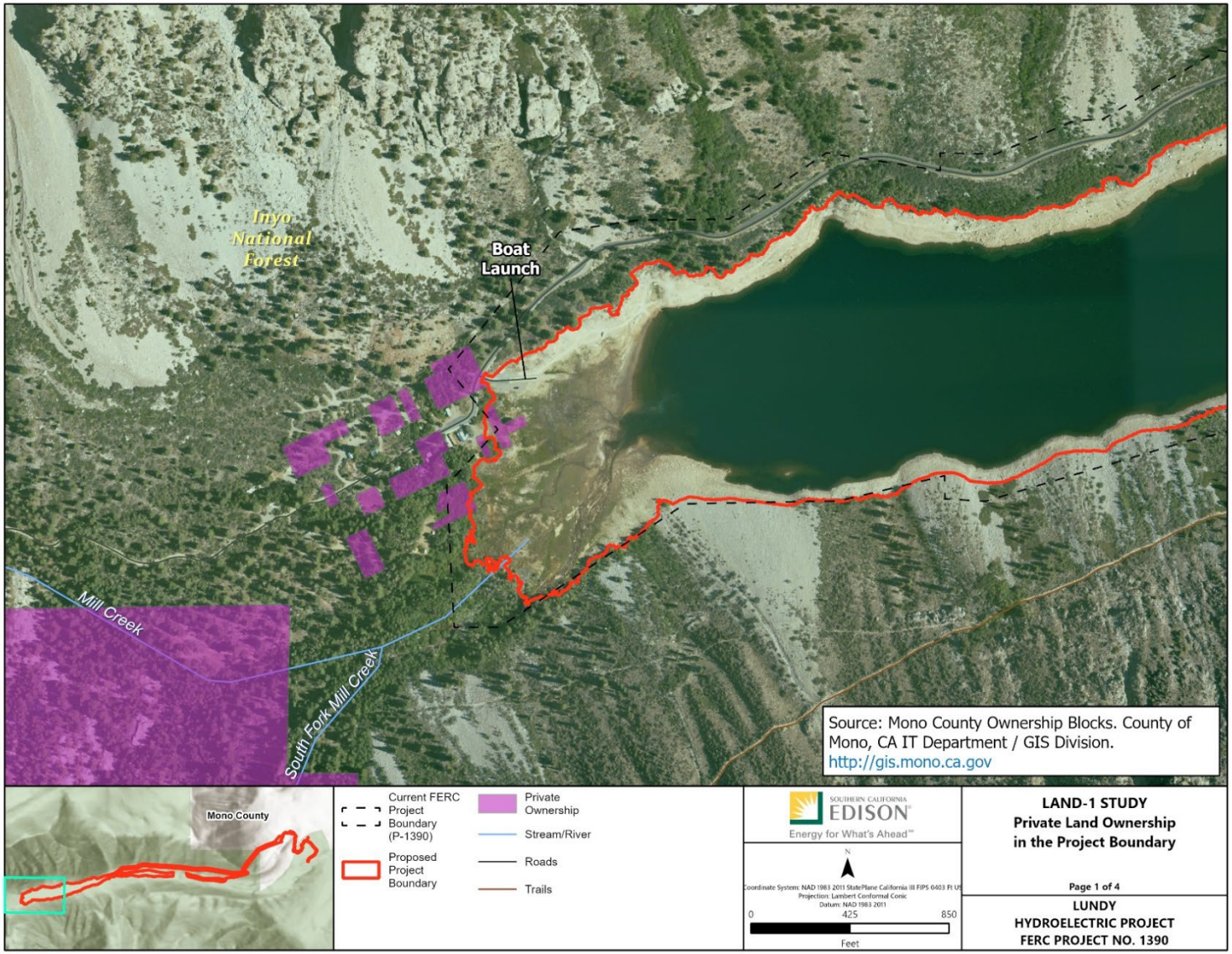


Figure 4.2-1. Private Land Ownership within the Existing FERC Project Boundary.

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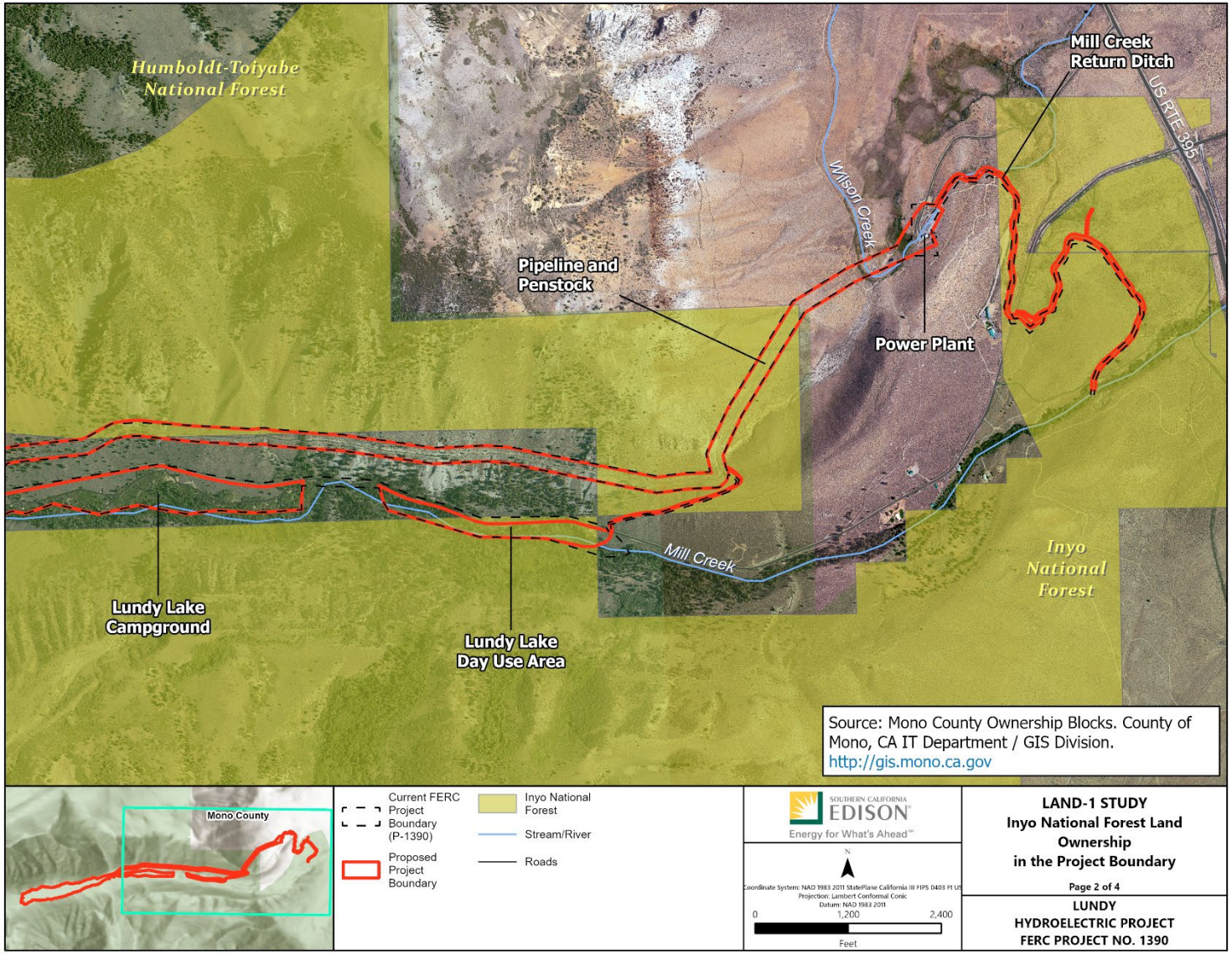


Figure 4.2-2. Inyo National Forest Land Ownership within the Existing FERC Project Boundary.

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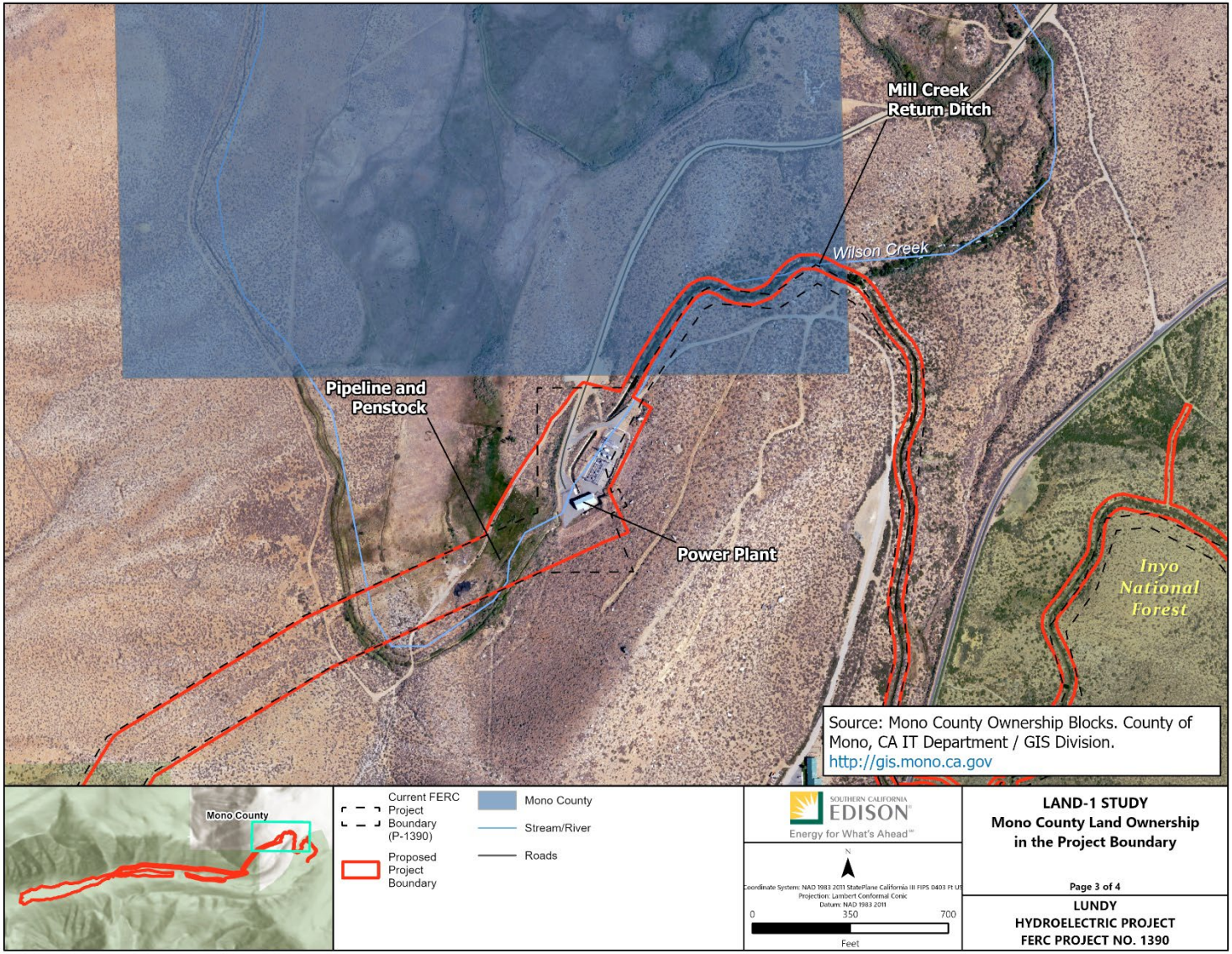


Figure 4.2-3. Mono County Land Ownership within the Existing FERC Project Boundary.

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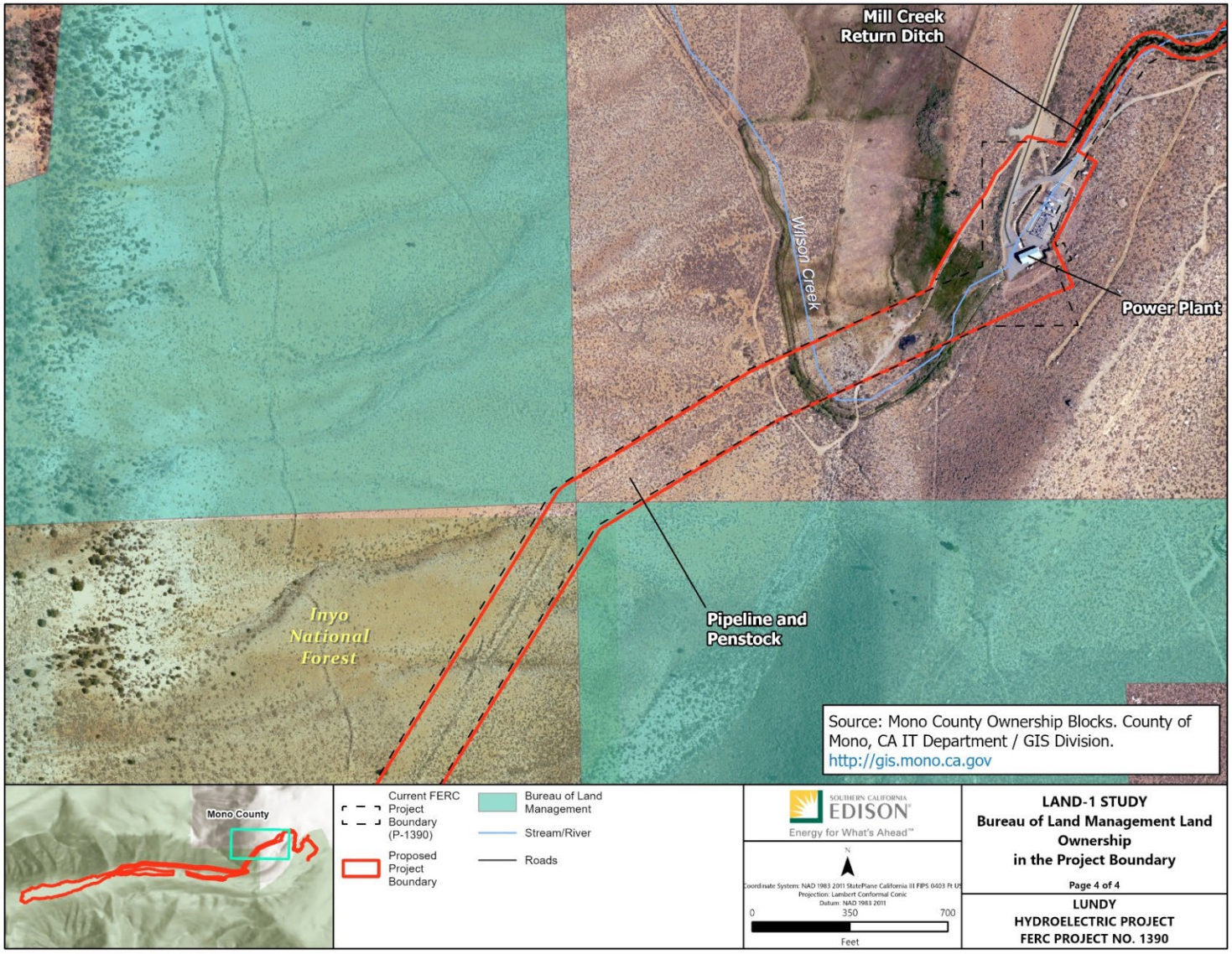


Figure 4.2-4. Bureau of Land Management Land Ownership within the Existing FERC Project Boundary.

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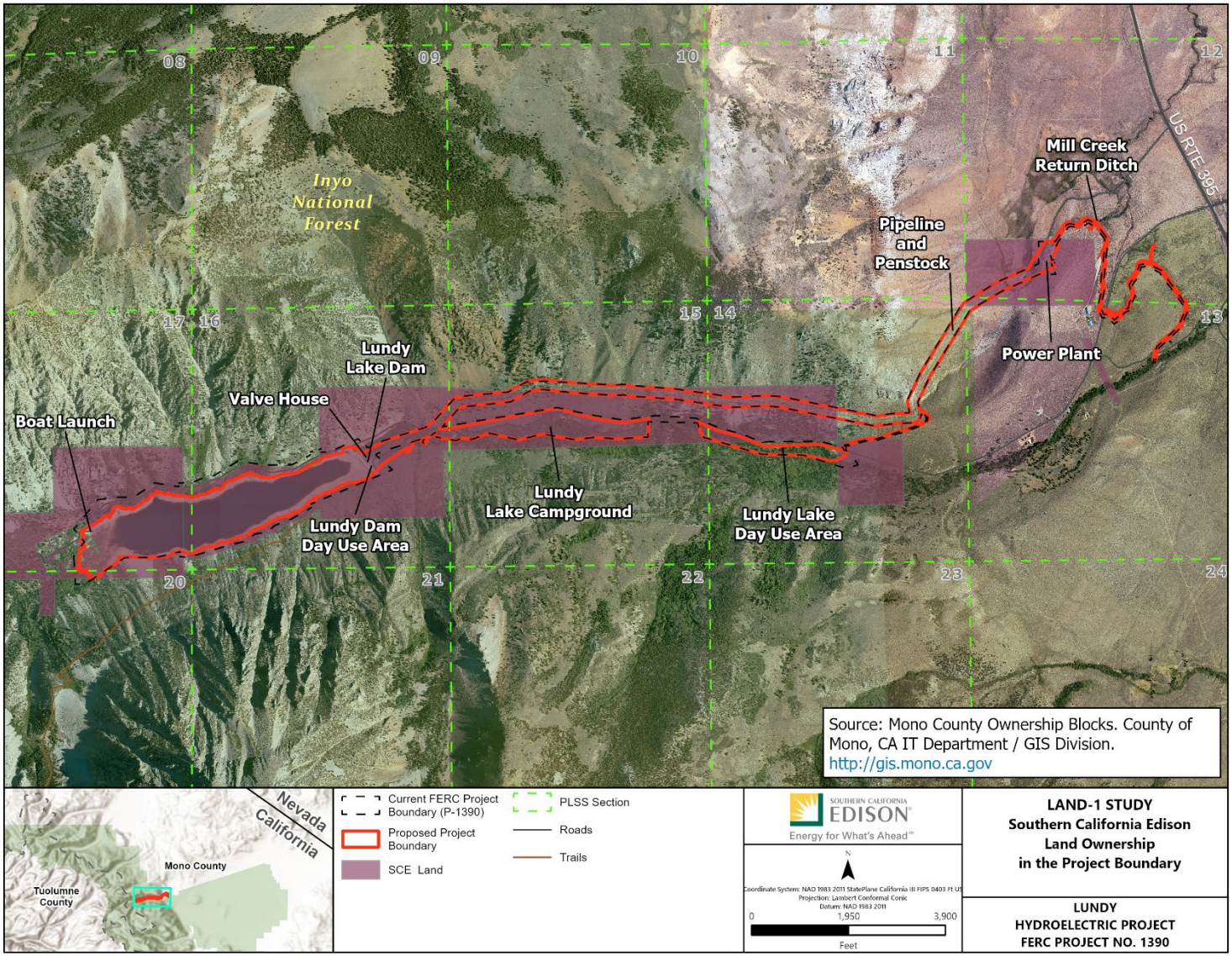


Figure 4.2-5. Southern California Edison Land Ownership within the Existing FERC Project Boundary.

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4.3. PROJECT ROADS

Roads associated with Project operation, maintenance, and recreation facilities were inventoried and assessed to document their current condition. The results of this assessment are summarized below.

4.3.1. INVENTORY AND CONDITION ASSESSMENT

Table 4.3-1 summarizes the roads located within the Project boundary including their condition. Those roads identified as being needed for Project purposes have an maintenance or improvements needed to meet land management standards identified during the assessment.

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Table 4.3-1. Inventory and Condition Assessment of Roads within the Project Boundary

Road Name	Project Purpose	Include as a FERC Project Road (Yes/No)	Condition Assessment	Improvements/Maintenance Needed
Lundy Lake Road	Provides access to Project recreation sites and public recreation sites located outside of the Project boundary	No	Good condition	None
Lundy Dam Road	Provides access to Lundy Dam and non-Project recreation park area	No	Good condition	None
Lundy Dam Valve House Access Road	Provides access to the Lundy Dam Valve House	Yes	Fair to poor condition minor grading and repair, brush removal	Maintenance only
Weather Station Access Road	*Provides access to the Project weather station*	*Yes*	*Fair to poor condition* *minor grading and repair, brush removal*	*Maintenance only*
Flowline and Penstock Access Road	Provides access to the Flowline and Penstock	Yes	Good condition	None
Sand Trap Access Road	*Provides access to the Project Sand Trap*	*Yes*	*Fair to poor condition* *minor grading and repair, brush removal*	*Maintenance only*
Powerhouse Access Road	Provides public access from route 395; Project access is limited to road provided beyond the gate to the Project Powerhouse	No/Yes	Good condition	None
Return Ditch Access Road-North (ROADS-6)	*Provides access to the Return Ditch for maintenance*	*Yes*	*Fair to poor condition* *minor grading and repair, brush removal*	*Maintenance only*
Return Ditch Access Road-South (ROADS-7)	*Provides access to the Return Ditch for maintenance*	*Yes*	*Fair to poor condition* *minor grading and repair, brush removal*	*Maintenance only*

Italicized text indicates proposed additions to the FERC Project boundary as part of the relicensing process.

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4.4. EXISTING PROJECT FACILITIES

Upon review of Project documents, Table 4.4-1 provides a list of existing Project facilities and structures used for hydroelectric generation.

Table 4.4-1. Lundy Project Facilities and Structures

Dam
Lundy Dam
Reservoir
Lundy Lake
Valve House
Lundy Dam Valve House
Stream Gages
Mill Creek Below Lundy Dam Instream Flow Release Mill Creek below Lundy Lake (USGS Gage No. 10287069; SCE Gage No. 355) Upper Conway ditch (USGS Gage No. 10287145; SCE Gage No. 366) Lundy Powerhouse tailrace (USGS Gage No. 10287195; SCE Gage No. 365) Splitter box release to the Wilson System Top of Mill Creek Return Ditch[1] Mill Creek Return Ditch near the confluence with Mill Creek
Reservoir Gages
Lundy Lake at Lundy Dam (Lundy Lake) (USGS Gage No. 10287060; SCE Gage No. 362)
Lundy Ancillary and Support Facilities
Weather Station, Flowline, Penstock, Sand trap, Switchyard (non-Project), Transmission Line

[1] This gage has been added since the 2023 FERC approval of the Revised Streamflow Gaging Plan.

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5.0 DISCUSSION

The proposed changes discussed in this LAND-1 report are a result of initial review of Project lands, features, operations, maintenance activity, and underlying land ownership. As intended, this study is an ongoing process that will continue until a proposed FERC Project boundary is submitted as part of SCE's Final License Application in February 2027. SCE will meet with USFS and BLM to discuss land ownership and the proposed addition or removal of lands within the Project boundary as noted above, prior to a final technical report being filed. SCE intends to file Proposed Exhibit G with the DLA to provide an additional opportunity for review.

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6.0 REFERENCES

CM (County of Mono). 2024. County of Mono License Agreement. June 2024

FERC (Federal Energy Regulatory Commission). 2025. Study Plan Determination for the Lundy Hydroelectric Project, P-1390. January 2, 2025.

LLR (Lundy Lake Resort). 2023. Lundy Lake Resort, Thomas Wragg, Patricia Wragg, and Haley Wragg License Agreement. September 1, 2023.

USFS (U.S. Forest Service). 2019. Land Management Plan for the Inyo National Forest. Fresno, Inyo, Madera, Mono and Tulare Counties, California; Esmeralda and Mineral Counties, Nevada. R5-MB-323a. Pacific Southwest Region. September. Accessed: August 24, 2020. Available online: https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd664404.pdf

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