

Memorandum

February 12, 2025

To: Kyla Westphal, Jeremy Loretz, and Todd Pelman, Ebb Carbon/Project Macoma
From: Matt Galaska and Nathan Soccorsy, Anchor QEA, Inc.

Re: Project Macoma Pre-Operational Ex Situ Salmon Testing Results

Introduction

Project Macoma, a temporary marine carbon dioxide removal (mCDR) pilot project in Port Angeles, Washington, has obtained a National Pollutant Discharge Elimination System (NPDES) Waste Discharge Permit (Permit; WA099105). As part of the NPDES Permit, Project Macoma produced an Ecological Safety Methodology (ESM) to detail the approach to biological monitoring to meet resource agency permit requirements. The ESM includes Voluntary Supplemental Monitoring and Scientific Studies, which included Ex Situ Salmon Testing. This memorandum describes the results of implementation of the Ex Situ salmon study, commonly referred to as bioassay testing that was performed by EcoAnalysts at their facility in Port Gamble, Washington (Attachment 1).

Project Macoma is designed to remove excess CO₂ pollution from the atmosphere and mitigate coastal ocean acidification. The pilot project will intake seawater from Port Angeles Harbor, treat it on land to increase its alkalinity and discharge alkaline-enhanced seawater to the Harbor. This process is intended to temporarily raise the pH of receiving waters to enhance marine carbon capture and to mitigate coastal acidification in the harbor. As defined in the NPDES Permit, Project Macoma's "Routine Operation" discharge will have a pH of 9.8 standard units¹.

Project Macoma management engaged with the Lower Elwha Klallam Tribe (LEKT) to develop a novel methodology to characterize the potential effects of Project Macoma's alkalinity discharge on juvenile coho salmon (*Oncorhynchus kisutch*). The salmon used in the study were provided by LEKT, from their hatchery in Port Angeles, Washington. The Washington State Department of Ecology (Ecology), Project Macoma, LEKT, Anchor QEA, and EcoAnalysts staff engaged in the study design process to evaluate potential toxicological effects.

This document provides a concise summary of the key experimental design, methodologies, and findings of the EcoAnalysts report (Attachment 1). We have highlighted the experimental framework that underpins the study, emphasizing its design rigor and relevance to environmental assessment and management in the sections that follow.

¹ Maintenance and Scientific Operations were not the subject of this study.

Key Objectives

- Assess acute survival effects of the alkaline discharge that simulates operational conditions (under a routine discharge of pH 9.8) at Project Macoma
- Assess salmon behavior and physical condition effects of the alkaline discharge
- Evaluate behavioral changes during and post exposure
- Document the mixing of the discharge

Methodology

- **Method Development—Mock Test Dye Study:** A pre-test dye study was conducted to observe how the alkaline discharge interacted with seawater in a controlled chamber (a 40-gallon aquarium). A dyed alkaline sample was introduced in a downward direction to assess dispersion and mixing characteristics before live bioassay testing. Visual and pH probe observations of this test were used to refine and adjust the direction the discharge was introduced in the aquarium to better simulate field conditions.
- **Test Design:** Juvenile coho salmon were acclimatized to seawater from Port Gamble Bay for two weeks. The salmon were then randomly divided into four test groups and one control group for each exposure. In the test groups, the salmon were placed in 40-gallon aquaria and exposed to a 1-gallon pulse of Routine Operation alkaline-enhanced seawater (pH~10) produced by Ebb Carbon's mCDR system. The aquaria were fitted with two pH probes as in the dye test. As the discharge naturally mixed with the water in the tank, the dilution ratio approximated in-water conditions approximately 10 feet from the outfall, as defined by the Ecology-approved mixing analysis report.
- **Exposure times:** Juvenile coho salmon were exposed to alkaline-enhanced seawater for 30 seconds, 1 minute, and 5 minutes. After each exposure period, fresh seawater from Port Gamble Bay was cycled through the tanks to refresh the water. This study design was structured to simulate a range of exposure scenarios. The 5-minute and 1-minute exposures exceeded the typical duration that highly mobile juvenile salmon would spend within the immediate 10-foot discharge zone, whereas the 30-second exposure was the test case most likely to reflect real-world conditions.
- **Chambers:** The test chambers were designed with a gravity fed flask to introduce the alkaline-enhanced seawater. The discharge outflow was directed toward the surface of the aquaria to simulate Project Macoma's outfall design, which is angled up and away from the seafloor. Each chamber had a flow-through design that allowed fresh seawater to be pumped into the bottom of the tank and excess seawater to flow out of the top. Post exposure, chambers were flushed with seawater for 3 hours.
- **Observations:** Behavioral changes, survival rates, and physical conditions of the fish (i.e., gills, eyes, and skin) were monitored during and after exposure. Video analysis and pH data loggers were used for additional observations.

Results

- **No Mortality or Physical Abnormalities:**
 - All test fish survived exposure, including those at the longest exposure (5 minutes).
 - No visible physical defects or abnormalities in gills, eyes, or skin were observed.
- **Normal Behavioral Patterns:**
 - Fish exhibited natural swimming behaviors prior and during exposure, including swimming directly under the alkaline discharge plume without noticeable avoidance behaviors or indication of stress.
 - Fish were alert and demonstrated normal predator evasion responses post exposure.
- **pH Observations:**
 - The alkaline-enhanced discharge introduced into each chamber had a pH of 10.0, but the highest recorded pH in test chambers was 8.08. Mixing from the upward-facing outflow and fish activity resulted in homogenous readings between the HOBO pH sensors.
 - The upward discharge direction and fish movement appear to have contributed to better homogenization, preventing stratification, compared to the Mock Test Dye Study.
- **Mock Test Dye Study:**
 - A Mock Test Dye Study was conducted prior to the Ex Situ Salmon Testing to better understand how the alkaline seawater would discharge into the aquaria chambers. Initial tests showed stratification of the alkaline solution in chambers without fish and a downward facing discharge. Adjustments (i.e., upward discharge and inclusion of fish) in subsequent tests ensured conditions more accurately represented anticipated field conditions and mixing.

Conclusion

The simulation of Project Macoma's Routine Operation discharge at 10 feet from the diffuser showed no adverse effects on juvenile coho salmon survival, behavior, or physical condition under a controlled laboratory setting. The alkaline-enhanced discharge, which started at pH of 10.0, decreased towards an ambient pH when mixed with seawater in the aquaria. The controlled laboratory experiments likely exceeded exposure conditions that would occur in the field under routine operations because salmon, like other pelagic species, are unlikely to remain in a confined area for the duration of time, especially if the seawater characteristics differs from ambient, unless influenced by other outside factors (e.g., food availability, predator avoidance). These initial findings support the assumption that pilot scale operations would likely present minimal risk to juvenile salmon and other key pelagic species.

Attachment 1
EcoAnalysts Bioassay Testing Results,
Project Macoma Laboratory Coho Study

BIOASSAY TESTING RESULTS

PROJECT MACOMA LABORATORY COHO STUDY

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EcoAnalysts Report ID:

PG1931.01

Submittal Date

January 15, 2025

All testing reported herein was performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and EcoAnalysts is not responsible for use of less than the complete report. The test results summarized in this report apply only to the sample(s) evaluated. This document is uncontrolled when printed or accessed from electronic distribution.

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APPENDICES

- Appendix A: Test Data, Test Organism Photos, pH HOBO Data
- Appendix B: Chain of Custody Forms, Logs, and Pre-Test Documents

ACRONYMS AND ABBREVIATIONS

cm:	Centimeter
°C:	Degrees Celsius
g:	Grams
L:	Liter
LEKT:	Lower Elwha Klallam Tribe
mg:	Milligram
mg/L:	Milligrams per liter
mL:	Milliliter
mm:	Millimeter
ppt:	parts per thousand
SD:	Standard Deviation
USEPA:	United States Environmental Protection Agency
WA:	Washington State

1. INTRODUCTION

Project Macoma, managed by Ebb Carbon, is a temporary pilot study designed to remove excess atmospheric carbon dioxide (CO₂) while addressing coastal ocean acidification issues. Overall, the pilot study is designed to intake seawater within Port Angeles Harbor to a land-based treatment facility, process/deacidify the seawater, and discharge the alkaline-enhanced seawater back into Port Angeles Harbor within a barge-based outfall. The discharge is projected to have a pH of 9.8 ± 0.2 . A pilot study is being performed to demonstrate the technology's efficacy and evaluate potential ecological risk associated with the process.

As Port Angeles Harbor is a known rearing ground for several important salmon species, Ebb Carbon and the Lower Elwha Klallam Tribe (LEKT) collaborated to design an ex-situ laboratory study to monitor potential effects to juvenile coho salmon (*Oncorhynchus kisutch*) from an exposure to an alkaline solution created by Ebb Carbon that represents the discharge from routine operations. Together with Anchor QEA and EcoAnalysts, a controlled laboratory bioassay program with young coho was developed to answer these questions:

- Are there acute effects to juvenile coho salmon present during/after exposure to the alkaline discharge?
- Are there behavioral differences observed during/after exposure to the alkaline discharge?
- How does the alkaline discharge interact with seawater upon release?

This report presents the results of the laboratory testing portion of the pilot study program.

2. METHODS

This laboratory study was designed to test Project Macoma routine operations discharge in a “pulsed” approach to simulate a brief duration of time in which a fish swimming past the discharge outfall might come into contact with the discharge at the field site. Juvenile coho were exposed to the undiluted simulated discharge sample as it was released into the test chamber. The discharge naturally mixed with filtered seawater within the chambers, creating a dilution ratio that was predicted to occur at 10 feet from the outfall at the field site (half the distance of the acute mixing zone and approximately 200 feet closer than the chronic mixing zone allowed by the NPDES permit). Prior models showed that at this distance, the temperature of the discharge would be ambient (20.4°C). As pH of the discharge was expected to elicit the greatest potential effect on the fish, the laboratory study focused on monitoring pH during the exposures.

An initial “mock test dye study” was performed in the laboratory on a dyed alkaline discharge sample provided by Ebb Carbon to gain more insight into how the discharge would interact with seawater within the test chambers. The mock test did not employ organisms, and the test duration matched that of the longest discharge exposure test (5-minute exposure period followed by a 3 hr seawater flushing and observation period).

Two alkaline samples were produced by Ebb Carbon and delivered to EcoAnalysts Port Gamble Laboratory (Table 2-1), one of which was employed for the mock test dye study and the other for the bioassay testing program. Both samples were made to mimic Project Macoma routine discharge operations.

Table 2-1. Sample Collection and Receipt

Sample ID	Laboratory Designated ID	Sample Collection Date	Sample Receipt Date/Time	Receipt Temperature
Alkaline Product Dyed Blue	P241120.01	11/19/24	11/20/24 1237	10.5°C
NFCB9.8	P241202.01	12/2/24	12/2/24 1445	16.4°C

Hatchery-reared juvenile coho salmon were provided by LEKT for the laboratory bioassays. These were slowly acclimated to salt water prior to testing (see Section 2.4 for details). The culture was fed 2-3 times daily at 3.6 g per feeding (1% their total weight); food was provided by LEKT. Feeding of test organisms was withheld 24 hours prior to test initiation and no food was provided during the tests. Test conditions were adapted from USEPA OPPTS guidance (USEPA 1996).

2.1 Testing Procedures

The size of the juvenile coho upon receipt at EcoAnalysts averaged 8.45g (Figure 2-1). Following loading rate recommendations in USEPA OPPTS guidance (USEPA 1996), a static weight of 0.8 g of fish per liter was employed to determine test chamber size, water volume, and maximum number of organisms per chamber. Testing was conducted in 44-gallon (167 L) polycarbonate test chambers with approximately 146 L of seawater. Into this, 3.8 L of alkaline sample was discharged to create a total volume of approximately 150 L or 2.5% discharge concentration, replicating the modeled exposure 10 feet from the outfall at the field site. In addition to a laboratory negative control, three exposure periods were tested for this program: 30 seconds, 1 minute, and 5 minutes. These represent the duration of time the test organisms were exposed to 2.5% of the alkaline sample. Due to spacing restrictions, each of these discharge exposure periods, in addition to the control treatment, were tested independently of one another over four days. However, all employed the same organism batch, same alkaline sample, and same test conditions.



Figure 2-1. Juvenile Coho Salmon

Four replicates containing 10 fish each were tested for each of the exposure periods. Each replicate was composed of a 5 L glass separatory funnel containing the alkaline discharge sample, an outlet within the chamber to convey the alkaline solution to the test chamber, a seawater line to flow seawater within the test chamber, a screened port to allow water to overflow at the desired height, and a video camera placed above to monitor fish behavior throughout the test (Figure 2-2). Two pH HOBO data loggers were placed in one replicate at differing depths (surface and bottom) for each test to track pH conditions for the duration of testing. Fish were loaded into each test chamber the day prior to testing and flow-through seawater was turned on to allow them time to acclimate to test conditions (Figure 2-3). For video clarity, test chambers were not aerated during testing.

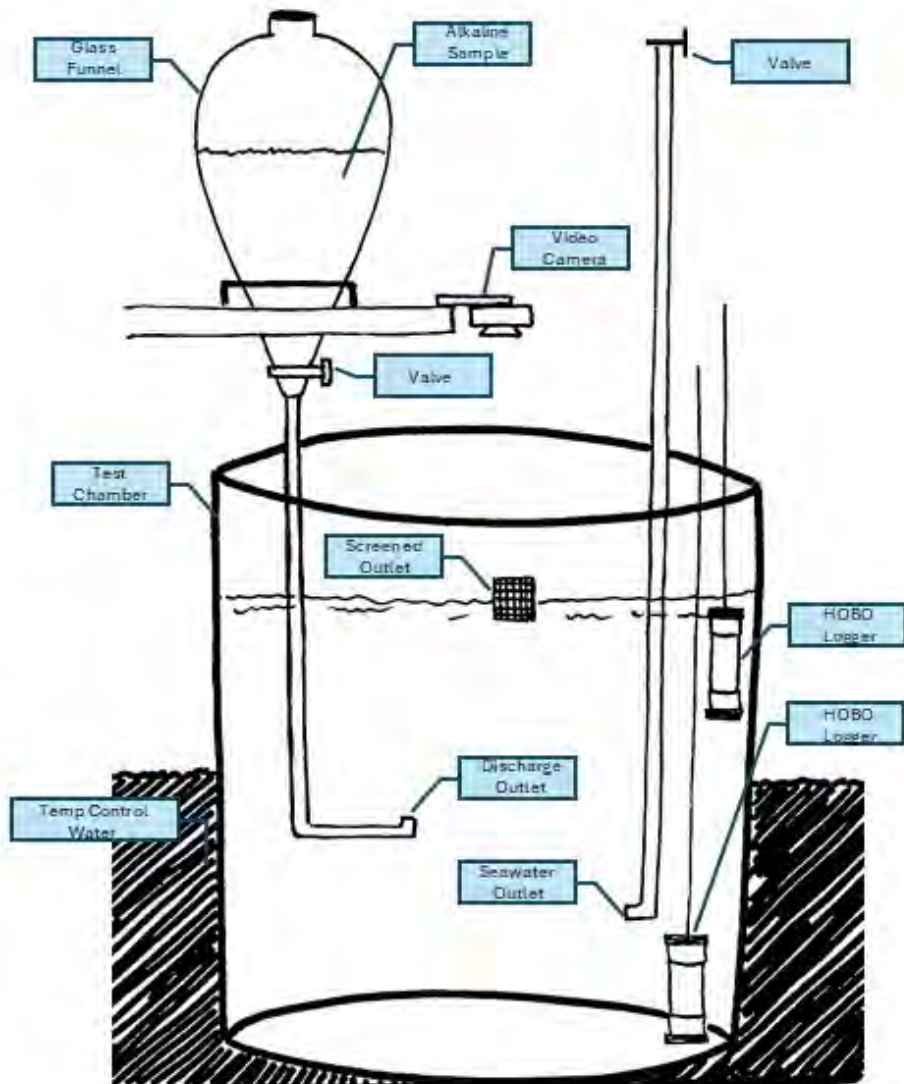


Figure 2-2. Test Chamber Diagram



Figure 2-3. Test Setup from Side and Above

One replicate from each test was designated a “handling chamber” for removing of organisms immediately following the discharge exposure period and inspecting for physical defects. Fish from all replicates underwent length and weight measurements following the test as well as inspection of bodies, gills, and eyes to determine if any physical abnormalities may be present. Video analysis of each chamber was conducted to monitor behavioral changes such as avoidance (in which the organism(s) moves away from the discharge outlet to avoid contact with the alkaline sample discharge), flashing (scratching on objects or the chamber to relieve itching), erratic swimming movement, and gill flushing.

Each test entailed 4 phases:

- Sample Discharge Period (1 min 51 sec): the 3.8 L alkaline sample was manually discharged into the test chambers via a control valve on the separatory funnel and naturally mixed with 146 L of seawater within the chambers to create an overall exposure concentration of 2.5%.
- Sample Exposure Period (30 sec, 1 min, or 5 min): the chambers were held at static conditions to expose the organisms to the discharged alkaline sample.
- Chamber Flushing Period (3 hrs): after the sample exposure period, flow-through seawater was turned on at a rate of approximately 3 gallons per minute to slowly dilute and flush the alkaline discharge sample.
- Physical Measurements: conducted after chamber flushing at the end of each test for three of the test replicates and immediately after the sample exposure period for the “handling chamber” replicate.

For each test, water quality parameters (dissolved oxygen, temperature, salinity, and pH) were measured in the alkaline sample, one test chamber prior to sample discharge, and one test chamber at

the end of the 3-hr flushing period. The pH was monitored continuously near the surface and at the bottom of the tank in one replicate throughout the test.

Video analysis observations were notated throughout the sample discharge period, throughout the exposure period, and at specific intervals during the chamber flushing period: 30 seconds post-exposure, 1 minute post-exposure, 5 minutes post-exposure, 30 minutes post-exposure, 1 hour post-exposure, 2 hours post-exposure, and at test termination.

2.2 Negative Control

To control against the effects of test conditions, equipment, human movement, and the flow of both the discharge and seawater lines, a negative control treatment was tested independently and followed the test design for the longest exposure period (5 minutes of exposure). During this test, filtered seawater replaced the alkaline sample in the separatory funnels above the test chambers, which was discharged into the chambers and held for 5 minutes prior to chamber flushing with seawater. All other test procedures for the negative control were the same as those with the alkaline sample.

2.3 Seawater for Bioassay Testing

Seawater used in this study came from the northern Hood Canal at Port Gamble, Washington. This seawater source has been used successfully on similar bioassay testing programs by the laboratory. Extensive testing on a variety of test species has shown that there is no significant potential for toxicity or bioaccumulation from this water supply. Chemical analyses of this water source resulted in no significant contaminants of concern or bioaccumulation potential. Seawater was passed through a sand filter prior to use in the laboratory.

2.4 Coho Smolting

Approximately 250 juvenile coho were received from LEKT on November 15, 2024. These were hatched at the LEKT Hatchery on January 8, 2024, began feeding on February 17, 2024, and reared in freshwater. To ensure the fish were conditioned for targeted testing parameters that mimic environmental conditions in Port Angeles Harbor, the culture was slowly acclimated from freshwater to marine conditions (a process known as “smolting”) over 15 days. Water quality measurements were taken in the culture tubs daily prior to water manipulations. Water exchanges were then conducted in each culture tub from a seawater line. The amount of raw seawater discharged into the tubs varied each day to increase the overall culture water salinity by no more than 2 ± 1 ppt per day. After 15 days, the culture was fully acclimated to marine conditions (30 ± 2 ppt). Netting was placed over the tubs to prevent fish from escaping. Fish were held at $6 \pm 2^\circ\text{C}$.

2.5 Data Analysis and QA/QC

All laboratory instruments were calibrated daily or on their recommended schedule. Records of instrument calibration were retained in the laboratory logs.

All hand-entered data was reviewed for data entry errors, which were corrected prior to summary calculations. A minimum of 10% of all calculations and data sorting were reviewed for errors. Review counts were conducted on any apparent outliers.

To capture all behavioral data, video cameras were placed above each test chamber and recorded video throughout each test via Bandicam software, starting before sample discharge and ending after removal of fish for physical measurements. Video analysis was performed to track any unusual behavior and all qualitative observations were compiled into handwritten datasheets.

3. RESULTS

The results of the testing, including a summary of test results and water quality observations are presented in this section. All data and laboratory bench sheets are provided in Appendix A while chain of custody forms and pre-test documents are supplied in Appendix B.

3.1 Mock Test Dye Study

To gain a better understanding of how the alkaline sample would react to seawater in the test chambers, a mock test dye study was performed. A sample mixed with blue dye (food coloring) was delivered to EcoAnalysts by Ebb Carbon personnel on November 20, 2024. During this test, the discharge outlet for the alkaline sample was directed laterally towards the middle of the test chamber. The pH of the alkaline sample was 10.0 and the salinity measured 40 ppt prior to dispersal into the test chamber.

During the mock test dye study, the alkaline sample clearly was observed discharging into the test chamber and sinking to the bottom in a stratified fashion (Figure 3-1). The sample remained at the bottom of the test chamber throughout the 5-minute exposure interval until the seawater was turned on for the flushing period. Immediately after the seawater flow initiation, the sample was thoroughly mixed throughout the test chamber.



Figure 3-1. Chamber During Mock Test Dye Study: Alkaline Sample Dispersed (Left), During 5-Min Exposure (Middle), and During 3-Hr Flushing Period (Right)

The HOBO data logger results confirm the stratification observation (Figure 3-2). The HOBO located at the bottom of the test chamber showed a spike in pH from 7.7 to 8.2 immediately during dispersal of the alkaline sample whereas the HOBO located at the surface of the test chamber remained at a pH of 7.7 during the sample dispersal and exposure period; it only jumped to a pH high of 8.0 after the seawater was turned on. During the flushing period, the pH was similar at both the top and bottom of the test chamber and slowly declined to near ambient conditions by test termination. Due to the noted stratification, discharge direction was adjusted for the bioassay testing to better facilitate mixing and better represent the discharge outlet proposed for the field site (outlet directed upwards). This change, along with the addition of mixing from the fish, was predicted to create a more consistently homogenized sample during the biological testing.

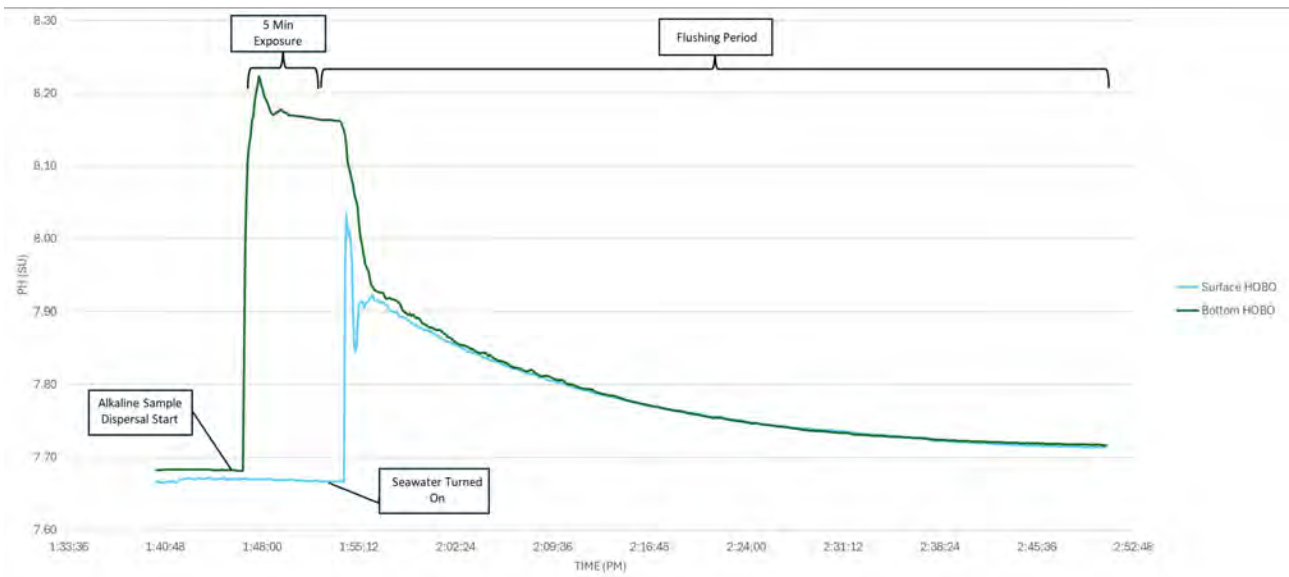


Figure 3-2. pH HOB0 Data for Mock Test Dye Study

3.2 Bioassay Testing with Juvenile Coho

3.2.1 30 Second Exposure

The 30-sec exposure bioassay test with juvenile coho salmon was initiated on December 5, 2024. There were no mortalities in the 30-sec exposure test. Mean length of the fish measured 83.7 mm and mean weight was 7.62 g (Table 3-1). The mean total biomass tested was 76.2 g per chamber or 0.5 g/L, which met the recommended loading mass of <0.8 g/L.

The alkaline sample (100%) measured a pH of 10.0 and salinity of 38 ppt prior to being dispersed into the test chambers. Test water quality parameters in the chambers were within the recommended limits (Table 3-2), though the sample temperature prior to dispersal was below the recommended limits (7.2 °C). The pH HOBO data loggers measured the highest pH after the exposure end (measuring 8.04 at the bottom and 7.92 at the surface), immediately when the seawater lines were turned on (Figure 3-3). The pH remained between 8.00 and 8.04 for 2 minutes in the test chamber before beginning its descent during the flushing period. It was later observed that the pH HOBO loggers were logging every minute instead of every 5 seconds.

Overall, fish behaved as normal in all test chambers without erratic movement. They were alert and active throughout the test duration. In two of the chambers, at least one fish was observed swimming unfazed directly under the alkaline sample discharge outlet during sample dispersal with a noticeable brine plume. All fish attempted to evade capture at the end of the test for physical observations, indicating they were active and able to potentially avoid predation after exposure to the alkaline sample. There were no noticeable changes to gills, eyes, or external body tissues. Detailed observations from the video analysis are presented in Appendix A and a summary of test conditions is provided in Table 3-3.

Table 3-1. 30 Second Exposure Test Results for Juvenile Coho

Treatment	Rep	Number Initiated	Survivors	Mean Survival (%)	Mean Length (mm)	Treatment Mean Length (mm)	SD	Mean Weight (g)	Treatment Mean Weight (g)	SD
2.5% NFCB9.8: 30 Second Exposure	1	10	10	100	85.5	83.7	4.89	7.95	7.62	1.16
	2	10	10		83.5			7.61		
	3	10	10		81.8			7.29		
	4 (Handling Chamber)	10	10		83.9			7.65		

Table 3-2. 30 Second Exposure Test Water Quality Summary for Juvenile Coho

Treatment	Dissolved Oxygen (mg/L) ≥ 6.5 mg/L	Temperature (°C) 12 ± 2°C	Salinity (ppt) 28 ± 2 ppt	pH 7 - 9 units
NFCB9.8 (100%)	8.2	7.2	38	10.0
Rep 1 (Pre-Test)	7.0	11.2	30	7.6
Rep 1 (Post-Test)	7.0	11.2	31	7.7

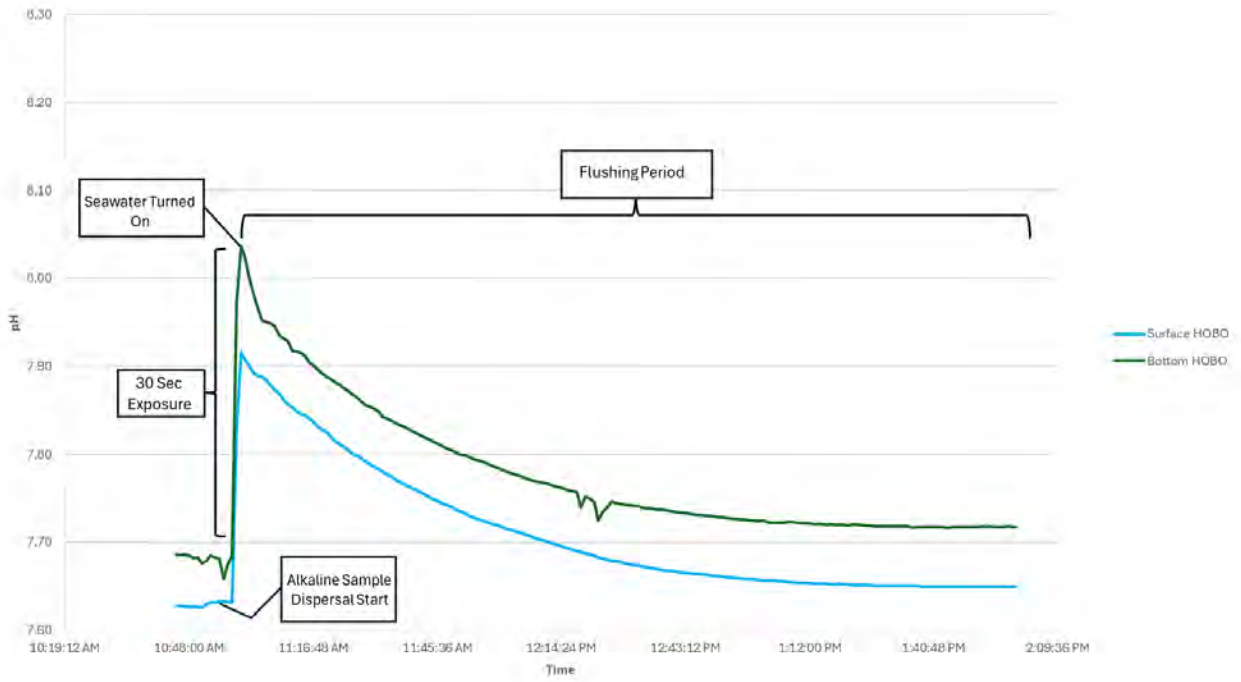


Figure 3-3. pH HOBO Data for 30 Second Exposure

Table 3-3. 30 Second Test Condition Summary for Juvenile Coho

Test Conditions: <i>Oncorhynchus kisutch</i>		
Date Sampled	December 2, 2024	
Date Received	December 2, 2024	
Test Dates	December 5, 2024	
Sample Storage Conditions	4°C, dark	
Days of Holding	3 Days	
Test Species	<i>Oncorhynchus kisutch</i>	
Supplier	Lower Elwha Klallam Tribe	
Date Acquired	November 15, 2024	
Age Class	Juvenile; 332 days old (8.45 g average)	
Test Procedures	USEPA OPPTS (USEPA 1996)	
Test Location	EcoAnalysts Port Gamble Laboratory	
Test Type/Duration	30 Second Exposure, 3 Hour Test Duration	
Control Water	North Hood Canal seawater, sand-filtered	
Test Lighting	50 – 100 foot candles (ambient and constant)	
Test Chamber	44 Gallon (167 L) Polycarbonate Round Chamber	
Replicates per Treatment	4 (3 Reps + Handling Chamber)	
Organisms per Replicate	10	
Exposure Volume	3.8 L alkaline sample in 146 L seawater (150 L total)	
Exposure Concentration	2.5%	
Feeding	None	
Water Renewal	Flow-through for 3 hrs after exposure period	
Test Dissolved Oxygen	Recommended: > 6.5 mg/L	Observed: 7.0 mg/L
Test Temperature	Recommended: 12 ± 2°C	Observed: 11.2°C
Test Salinity	Recommended: 28 ± 2 ppt	Observed: 30 – 31 ppt
Test pH (point measurement)	Recommended: 7 - 9	Observed: 7.6 – 7.7
Test pH (HOBO measurements)	Recommended: 7 - 9	Observed: 7.63 – 8.04
Control Performance Standard	Recommended: Mortality ≤ 10%	Observed: 0% (control test performed 12/6/24)
Average Fish Loading	Recommended: <0.8 g/L	Observed: 0.5 g/L
Deviations from Test Protocol	Temperature of alkaline sample prior to dispersal, HOBOS logged every 1 min instead of every 5 sec	

3.2.2 1 Minute Exposure

The 1-min exposure bioassay test with juvenile coho salmon was initiated on December 4, 2024. There were no mortalities in the 1-min exposure test. Mean length of the fish measured 81.7 mm and mean weight was 7.19 g (Table 3-4). The mean total biomass tested was 71.9 g per chamber or 0.5 g/L, which met the recommended loading mass of <0.8 g/L.

The alkaline sample (100%) measured a pH of 9.9 and salinity of 38 ppt prior to being dispersed into the test chambers. Test water quality parameters in the chambers were within the recommended limits (Table 3-5), however post-test water quality measurements were inadvertently missed. The pH HOBO data loggers measured the highest pH after the exposure end (measuring 8.05 at the bottom and 7.98 at the surface), immediately when the seawater lines were turned on (Figure 3-4). The pH measured between 8.00 and 8.05 for 2 minutes in the test chamber before beginning its descent during the flushing period. It was later observed that the pH HOBO loggers were logging every minute instead of every 5 seconds.

Overall, fish behaved as normal in all test chambers without erratic movement. They were alert and active throughout the test duration (fish in Rep 1 were noticeably less active overall but swam normally and were alert). In two of the chambers, at least one fish was observed swimming unfazed directly under the alkaline sample discharge outlet during sample dispersal with a noticeable brine plume. All fish attempted to evade capture at the end of the test for physical observations, indicating they were active and able to potentially avoid predation after exposure to the alkaline sample. There were no noticeable changes to gills, eyes, or external body tissues. Detailed observations from the video analysis are presented in Appendix A and a summary of test conditions is provided in Table 3-6.

Table 3-4. 1 Minute Exposure Test Results for Juvenile Coho

Treatment	Rep	Number Initiated	Survivors	Mean Survival (%)	Mean Length (mm)	Treatment Mean Length (mm)	SD	Mean Weight (g)	Treatment Mean Weight (g)	SD
2.5% NFCB9.8: 1 Minute Exposure	1	10	10	100	83.7	81.7	4.19	7.67	7.19	1.10
	2	10	10		81.6			7.15		
	3	10	10		83.3			7.61		
	4 (Handling Chamber)	10	10		78.0			6.32		

Table 3-5. 1 Minute Exposure Test Water Quality Summary for Juvenile Coho

Treatment	Dissolved Oxygen (mg/L) ≥ 6.5 mg/L	Temperature (°C) 12 ± 2°C	Salinity (ppt) 28 ± 2 ppt	pH 7 - 9 units
NFCB9.8 (100%)	8.4	12.8	38	9.9
Rep 1 (Pre-Test)	6.9	10.8	30	7.6
Rep 1 (Post-Test)	NM	NM	NM	NM

NM = inadvertently not measured

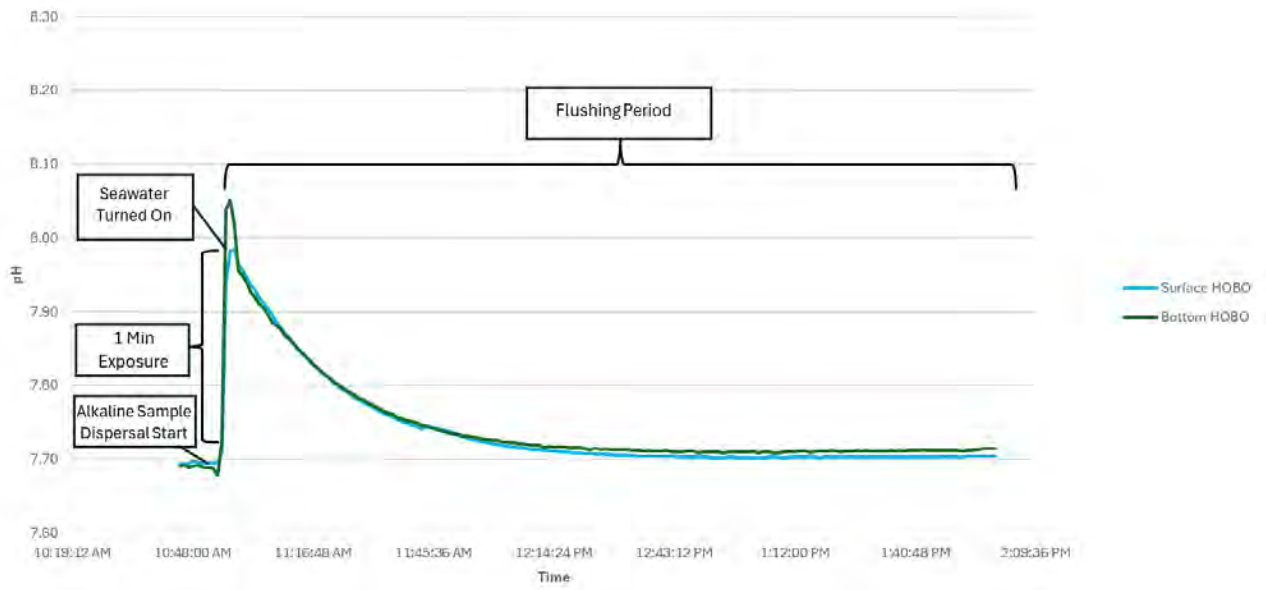


Figure 3-4. pH HOBO Data for 1 Minute Exposure

Table 3-6. 1 Minute Test Condition Summary for Juvenile Coho

Test Conditions: <i>Oncorhynchus kisutch</i>		
Date Sampled	December 2, 2024	
Date Received	December 2, 2024	
Test Dates	December 4, 2024	
Sample Storage Conditions	4°C, dark	
Days of Holding	2 Days	
Test Species	<i>Oncorhynchus kisutch</i>	
Supplier	Lower Elwha Klallam Tribe	
Date Acquired	November 15, 2024	
Age Class	Juvenile; 331 days old (8.45 g average)	
Test Procedures	USEPA OPPTS (USEPA 1996)	
Test Location	EcoAnalysts Port Gamble Laboratory	
Test Type/Duration	1 Minute Exposure, 3 Hour Test Duration	
Control Water	North Hood Canal seawater, sand-filtered	
Test Lighting	50 – 100 foot candles (ambient and constant)	
Test Chamber	44 Gallon (167 L) Polycarbonate Round Chamber	
Replicates per Treatment	4 (3 Reps + Handling Chamber)	
Organisms per Replicate	10	
Exposure Volume	3.8 L alkaline sample in 146 L seawater (150 L total)	
Exposure Concentration	2.5%	
Feeding	None	
Water Renewal	Flow-through for 3 hrs after exposure period	
Test Dissolved Oxygen	Recommended: > 6.5 mg/L	Observed: 6.9 mg/L
Test Temperature	Recommended: 12 ± 2°C	Observed: 10.8°C
Test Salinity	Recommended: 28 ± 2 ppt	Observed: 30 ppt
Test pH (point measurement)	Recommended: 7 - 9	Observed: 7.6
Test pH (HOBO measurements)	Recommended: 7 - 9	Observed: 7.68 – 8.05
Control Performance Standard	Recommended: Mortality ≤ 10%	Observed: 0% (control test performed 12/6/24)
Average Fish Loading	Recommended: <0.8 g/L	Observed: 0.5 g/L
Deviations from Test Protocol	Water quality at test termination not measured, HOBOs logged every 1 min instead of every 5 sec	

3.2.3 5 Minute Exposure

The 5-min exposure bioassay test with juvenile coho salmon was initiated on December 3, 2024. There were no mortalities in the 5-min exposure test. Mean length of the fish measured 81.4 mm and mean weight was 7.07 g (Table 3-7). The mean total biomass tested was 70.7 g per chamber or 0.5 g/L, which met the recommended loading mass of <0.8 g/L.

The alkaline sample (100%) measured a pH of 10.0 and salinity of 39 ppt prior to being dispersed into the test chambers. Test water quality parameters in the chambers were within the recommended limits (Table 3-8). The pH HOBO data loggers measured the highest pH 40 seconds into the exposure period at the bottom (measuring 8.09) and 50 seconds into the exposure period at the surface (measuring 8.02) (Figure 3-5). It remained between 8.00 and 8.09 on the bottom of the chamber for 10 minutes (5 minutes of which were into the flushing period). It remained elevated at 8.09 for less than one minute.

Overall, fish behaved as normal in all test chambers without erratic movement. They were alert and active throughout the test duration (fish in Rep 1 were noticeably less active overall but swam normally and were alert). In all chambers, at least one fish was observed swimming unfazed directly under the alkaline sample discharge outlet during sample dispersal with a noticeable brine plume. All fish attempted to evade capture at the end of the test for physical observations, indicating they were active and able to potentially avoid predation after exposure to the alkaline sample. There were no noticeable changes to gills, eyes, or external body tissues. Detailed observations from the video analysis are presented in Appendix A and a summary of test conditions is provided in Table 3-9.

Table 3-7. 5 Minute Exposure Test Results for Juvenile Coho

Treatment	Rep	Number Initiated	Survivors	Mean Survival (%)	Mean Length (mm)	Treatment Mean Length (mm)	SD	Mean Weight (g)	Treatment Mean Weight (g)	SD
2.5% NFCB9.8: 5 Minute Exposure	1	10	10	100	81.1	81.4	5.56	6.83	7.07	1.27
	2	10	10		81.6			7.18		
	3	10	10		81.5			7.36		
	4 (Handling Chamber)	10	10		81.2			6.92		

Table 3-8. 5 Minute Exposure Test Water Quality Summary for Juvenile Coho

Treatment	Dissolved Oxygen (mg/L) ≥ 6.5 mg/L	Temperature (°C) 12 ± 2°C	Salinity (ppt) 28 ± 2 ppt	pH 7 - 9 units
NFCB9.8 (100%)	7.4	12.4	39	10.0
Rep 1 (Pre-Test)	7.7	11.3	31	7.6
Rep 1 (Post-Test)	7.1	11.0	31	7.6

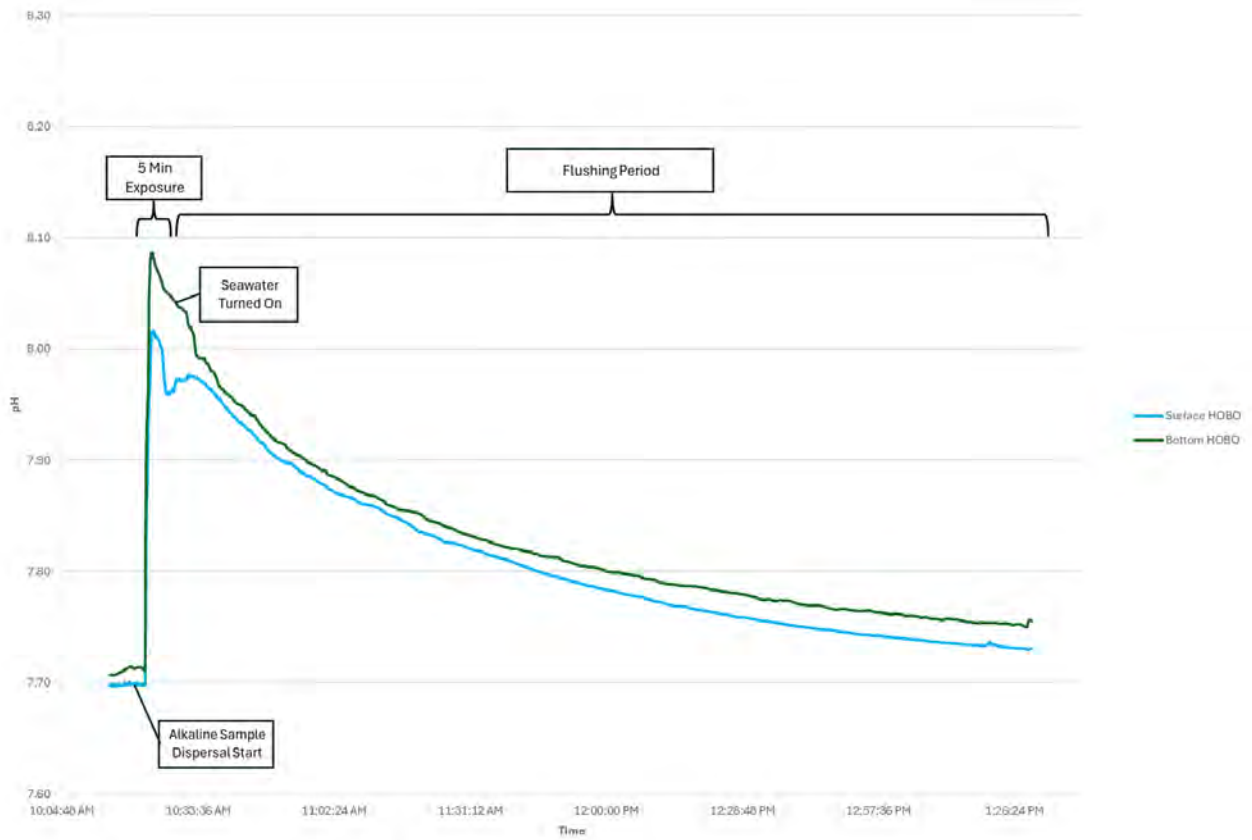


Figure 3-5. pH HOBO Data for 5 Minute Exposure

Table 3-9. 5 Minute Test Condition Summary for Juvenile Coho

Test Conditions: <i>Oncorhynchus kisutch</i>		
Date Sampled	December 2, 2024	
Date Received	December 2, 2024	
Test Dates	December 3, 2024	
Sample Storage Conditions	4°C, dark	
Days of Holding	1 Day	
Test Species	<i>Oncorhynchus kisutch</i>	
Supplier	Lower Elwha Klallam Tribe	
Date Acquired	November 15, 2024	
Age Class	Juvenile; 330 days old (8.45 g average)	
Test Procedures	USEPA OPPTS (USEPA 1996)	
Test Location	EcoAnalysts Port Gamble Laboratory	
Test Type/Duration	5 Minute Exposure, 3 Hour Test Duration	
Control Water	North Hood Canal seawater, sand-filtered	
Test Lighting	50 – 100 foot candles (ambient and constant)	
Test Chamber	44 Gallon (167 L) Polycarbonate Round Chamber	
Replicates per Treatment	4 (3 Reps + Handling Chamber)	
Organisms per Replicate	10	
Exposure Volume	3.8 L alkaline sample in 146 L seawater (150 L total)	
Exposure Concentration	2.5%	
Feeding	None	
Water Renewal	Flow-through for 3 hrs after exposure period	
Test Dissolved Oxygen	Recommended: > 6.5 mg/L	Observed: 7.1 – 7.7 mg/L
Test Temperature	Recommended: 12 ± 2°C	Observed: 11.0 – 11.3°C
Test Salinity	Recommended: 28 ± 2 ppt	Observed: 31 ppt
Test pH (point measurement)	Recommended: 7 - 9	Observed: 7.6
Test pH (HOBO measurements)	Recommended: 7 - 9	Observed: 7.70 – 8.09
Control Performance Standard	Recommended: Mortality ≤ 10%	Observed: 0% (control test performed 12/6/24)
Average Fish Loading	Recommended: <0.8 g/L	Observed: 0.5 g/L
Deviations from Test Protocol	None	

3.2.4 Negative Control

The negative control bioassay test with juvenile coho salmon was initiated on December 6, 2024. There were no mortalities in the 5-min control test. Mean length of the fish measured 82.1 mm and mean weight was 7.34 g (Table 3-10). The mean total biomass tested was 73.4 g per chamber or 0.5 g/L, which met the recommended loading mass of <0.8 g/L.

The control 0% sample (seawater) measured a pH of 6.9 and salinity of 30 ppt prior to being dispersed into the test chambers. Test water quality parameters in the chambers were within the recommended limits (Table 3-11). The pH HOBO data loggers measured consistently 7.6 - 7.7 at both the bottom and surface of the test chamber (Figure 3-6). The bottom HOBO was slightly higher than the surface at 7.66 - 7.67 (compared to 7.62 - 7.63); however, these measurements were within the calibration tolerance (± 0.05) of the equipment and should be interpreted as no change between the two HOBO loggers.

Overall, fish behaved as normal in all test chambers without erratic movement. They were alert and active throughout the test duration. All fish attempted to evade capture at the end of the test for physical observations, indicating they were active and able to potentially avoid predation after exposure to the alkaline sample. There were no noticeable changes to gills, eyes, or external body tissues. Detailed observations from the video analysis are presented in Appendix A and a summary of test conditions is provided in Table 3-12.

Table 3-10. Negative Control Test Results for Juvenile Coho

Treatment	Rep	Number Initiated	Survivors	Mean Survival (%)	Mean Length (mm)	Treatment Mean Length (mm)	SD	Mean Weight (g)	Treatment Mean Weight (g)	SD
Control: 5 Minute Exposure	1	10	10	100	80.8	82.1	4.31	7.13	7.34	1.04
	2	10	10		83.3			7.79		
	3	10	10		84.9			7.86		
	4 (Handling Chamber)	10	10		79.4			6.59		

Table 3-11. Negative Control Test Water Quality Summary for Juvenile Coho

Treatment	Dissolved Oxygen (mg/L) ≥ 6.5 mg/L	Temperature (°C) $12 \pm 2^\circ\text{C}$	Salinity (ppt) 28 ± 2 ppt	pH 7 - 9 units
Control (0%)	6.9	10.6	30	7.6
Rep 1 (Pre-Test)	6.9	10.6	30	7.6
Rep 1 (Post-Test)	7.2	11.3	31	7.6

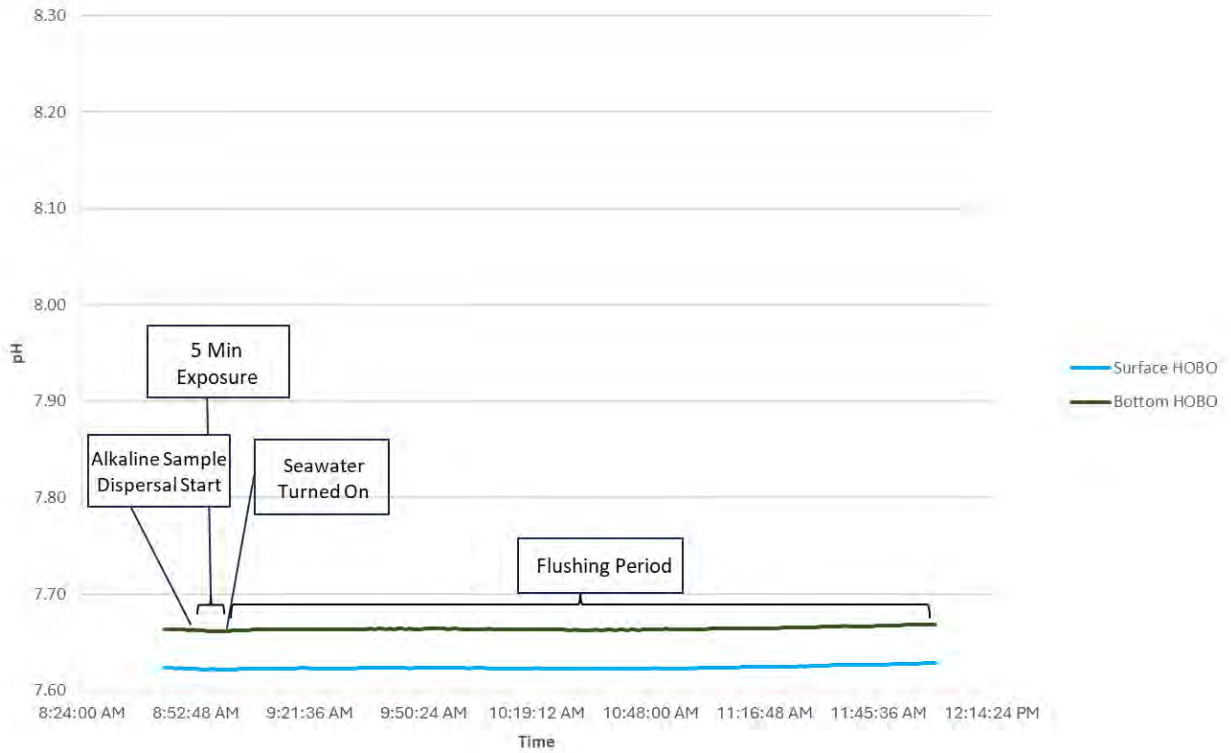


Figure 3-6. pH HOBO Data for Negative Control

Table 3-12. Negative Control Test Condition Summary for Juvenile Coho

Test Conditions: <i>Oncorhynchus kisutch</i>		
Date Sampled	December 6, 2024	
Date Received	--	
Test Dates	December 6, 2024	
Sample Storage Conditions	None (used immediately upon sampling)	
Days of Holding	0 Days	
Test Species	<i>Oncorhynchus kisutch</i>	
Supplier	Lower Elwha Klallam Tribe	
Date Acquired	November 15, 2024	
Age Class	Juvenile; 333 days old (8.45 g average)	
Test Procedures	USEPA OPPTS (USEPA 1996)	
Test Location	EcoAnalysts Port Gamble Laboratory	
Test Type/Duration	Negative Control, 3 Hour Test Duration	
Control Water	North Hood Canal seawater, sand-filtered	
Test Lighting	50 – 100 foot candles (ambient and constant)	
Test Chamber	44 Gallon (167 L) Polycarbonate Round Chamber	
Replicates per Treatment	4 (3 Reps + Handling Chamber)	
Organisms per Replicate	10	
Exposure Volume	3.8 L filtered seawater in 146 L seawater (150 L total)	
Exposure Concentration	0%	
Feeding	None	
Water Renewal	Flow-through for 3 hrs after exposure period	
Test Dissolved Oxygen	Recommended: > 6.5 mg/L	Observed: 6.9 – 7.2 mg/L
Test Temperature	Recommended: 12 ± 2°C	Observed: 10.6 – 11.3°C
Test Salinity	Recommended: 28 ± 2 ppt	Observed: 30 – 31 ppt
Test pH (point measurement)	Recommended: 7 - 9	Observed: 7.6
Test pH (HOBO measurements)	Recommended: 7 - 9	Observed: 7.62 – 7.67
Control Performance Standard	Recommended: Mortality ≤ 10%	Observed: 0%
Average Fish Loading	Recommended: <0.8 g/L	Observed: 0.5 g/L
Deviations from Test Protocol	None	

4. DISCUSSION

A mock test dye study and three bioassay exposures were successfully conducted with the alkaline sample.

4.1 Alkaline Sample Interaction with Seawater

The mock test dye study indicated that the alkaline sample would stratify upon dispersal and primarily remain in the bottom third of the test chamber. This did not occur in the bioassay exposures. There were two differences between the mock test and the bioassay test exposures: the addition of fish and the upward direction of the discharge outlet in the bioassay exposures. Both of these would change the interaction of the alkaline sample with the test chamber seawater but more closely mimics environmental conditions at the field site where the action of currents, animal movement, tides, and the direction of the outfall discharge would prevent or minimize stratification of the sample. While the bottom of the test chambers had slightly higher pH than the surface during the bioassay exposures, it appeared that the alkaline sample was much more evenly distributed within the test chambers than that seen in the mock test dye study.

The pH of the alkaline sample was 9.9 - 10.0 but the highest pH recorded in the bioassay exposures was 8.09. The highest pH recorded in the mock test dye study was similar, albeit slightly higher at 8.22 (which was likely a result of the stratification concentrating the brine). When compared to the 5-minute exposure, the HOB0 logger data from both the 30-second and 1-minute exposures may not have captured the highest pH experienced in the test chambers. Upon further inspection, both HOB0s were only logging data every minute instead of every 5 seconds as occurred in the mock test and 5-minute exposures.

4.2 Bioassay Testing with Juvenile Coho

There were no mortalities in any of the bioassay exposures, even at the highest exposure tested (5-minutes at 2.5% sample). Additionally, there were no noticeable behavioral effects. All test organisms appeared normal, alert, and attempted to evade capture at test termination. Gills, eyes, and skin also appeared normal. Fish were observed swimming directly under the alkaline sample as it discharged into the test chambers and appeared unfazed. Noticeable avoidance did not occur. In both the 5-minute and 1-minute exposures, the fish in Rep 1 (the chamber containing the HOB0 loggers) appeared less active and clustered than those in the other chambers. This may be due to the presence of the HOB0s, though this was not observed in the control.

5. SUMMARY

A pulsed bioassay program was successfully performed with the alkaline sample NFCB9.8 on juvenile coho salmon. Overall, there were no survival or behavioral effects to juvenile coho salmon when exposed to the alkaline sample at a 2.5% total concentration (Table 5-1). All fish appeared normal without erratic movement and attempted to evade capture upon test termination, indicating exposure to the alkaline sample did not hinder their natural ability to evade predators. Despite a pH of 10.0 in the sample itself, the highest pH recorded in the bioassay exposures was 8.09. The presence of fish and upward discharge of the sample prevented stratification and appeared to more evenly homogenize the sample within the test chambers than what was observed in the mock test dye study.

Table 5-1. Summary of Bioassay Testing with Juvenile Coho

Exposure to Alkaline Sample NFCB9.8	Survival (%)	Behavior Abnormalities	Physical Abnormalities
30 Seconds	100	None	None
1 Minute	100	None	None
5 Minutes	100	None	None

6. REFERENCES

USEPA 1996. Ecological Effects Test Guidelines OPPTS 850.1075 Fish Acute Toxicity Test, Freshwater and Marine. United States Environmental Protection Agency.

APPENDIX A. TEST DATA, TEST ORGANISM PHOTOS, AND PH HOBO DATA

1. MOCK TEST DYE STUDY

1.1 MOCK TEST DYE STUDY PH HOBO DATA

2. BIOASSAY 30-SEC EXPOSURE

2.1 BIOASSAY 30-SEC EXPOSURE TEST DATA

2.2 BIOASSAY 30-SEC EXPOSURE TEST ORGANISM PHOTOS

2.3 BIOASSAY 30-SEC EXPOSURE PH HOBO DATA

3. BIOASSAY 1-MIN EXPOSURE

3.1 BIOASSAY 1-MIN EXPOSURE TEST DATA

3.2 BIOASSAY 1-MIN EXPOSURE TEST ORGANISM PHOTOS

3.3 BIOASSAY 1-MIN EXPOSURE PH HOBO DATA

4. BIOASSAY 5-MIN EXPOSURE

4.1 BIOASSAY 5-MIN EXPOSURE TEST DATA

4.2 BIOASSAY 5-MIN EXPOSURE TEST ORGANISM PHOTOS

4.3 BIOASSAY 5-MIN EXPOSURE PH HOBO DATA

5. BIOASSAY CONTROL EXPOSURE

5.1 BIOASSAY CONTROL EXPOSURE TEST DATA

5.2 BIOASSAY CONTROL EXPOSURE TEST ORGANISM PHOTOS

5.3 BIOASSAY CONTROL EXPOSURE PH HOBO DATA

APPENDIX B. CHAIN-OF-CUSTODY FORMS, LOGS, AND PRE-TEST DOCUMENTS

APPENDIX A. TEST DATA, TEST ORGANISM PHOTOS, AND PH HOBO DATA

1. Mock Test Dye Study

1.1 Mock Test Dye Study pH HOBO Data

MOCK TEST DYE STUDY HOBO DATA

#	Date-Time (PST)	Date	time	Bottom HOBO	Surface HOBO
1765	11/20/2024 13:45:00	11/20/2024		7.68	7.67
1766	11/20/2024 13:45:05	11/20/2024		7.68	7.67
1767	11/20/2024 13:45:10	11/20/2024		7.68	7.67
1768	11/20/2024 13:45:15	11/20/2024		7.68	7.67
1769	11/20/2024 13:45:20	11/20/2024		7.68	7.67
1770	11/20/2024 13:45:25	11/20/2024		7.68	7.67
1771	11/20/2024 13:45:30	11/20/2024		7.68	7.67
1772	11/20/2024 13:45:35	11/20/2024		7.68	7.67
1773	11/20/2024 13:45:40	11/20/2024		7.68	7.67
1774	11/20/2024 13:45:45	11/20/2024		7.68	7.67
1775	11/20/2024 13:45:50	11/20/2024		7.68	7.67
1776	11/20/2024 13:45:55	11/20/2024		7.68	7.67
1777	11/20/2024 13:46:00	11/20/2024		7.68	7.67
1778	11/20/2024 13:46:05	11/20/2024		7.68	7.67
1779	11/20/2024 13:46:10	11/20/2024		7.68	7.67
1780	11/20/2024 13:46:15	11/20/2024		7.68	7.67
1781	11/20/2024 13:46:20	11/20/2024		7.68	7.67
1782	11/20/2024 13:46:25	11/20/2024		7.68	7.67
1783	11/20/2024 13:46:30	11/20/2024		7.68	7.67
1784	11/20/2024 13:46:35	11/20/2024		7.68	7.67
1785	11/20/2024 13:46:40	11/20/2024		7.84	7.67
1786	11/20/2024 13:46:45	11/20/2024		7.99	7.67
1787	11/20/2024 13:46:50	11/20/2024		8.05	7.67
1788	11/20/2024 13:46:55	11/20/2024		8.10	7.67
1789	11/20/2024 13:47:00	11/20/2024		8.12	7.67
1790	11/20/2024 13:47:05	11/20/2024		8.13	7.67
1791	11/20/2024 13:47:10	11/20/2024		8.15	7.67
1792	11/20/2024 13:47:15	11/20/2024		8.16	7.67
1793	11/20/2024 13:47:20	11/20/2024		8.17	7.67
1794	11/20/2024 13:47:25	11/20/2024		8.18	7.67
1795	11/20/2024 13:47:30	11/20/2024		8.20	7.67
1796	11/20/2024 13:47:35	11/20/2024		8.20	7.67
1797	11/20/2024 13:47:40	11/20/2024		8.21	7.67
1798	11/20/2024 13:47:45	11/20/2024		8.22	7.67
1799	11/20/2024 13:47:50	11/20/2024		8.22	7.67
1800	11/20/2024 13:47:55	11/20/2024		8.21	7.67
1801	11/20/2024 13:48:00	11/20/2024		8.21	7.67
1802	11/20/2024 13:48:05	11/20/2024		8.20	7.67
1803	11/20/2024 13:48:10	11/20/2024		8.20	7.67
1804	11/20/2024 13:48:15	11/20/2024		8.19	7.67
1805	11/20/2024 13:48:20	11/20/2024		8.19	7.67
1806	11/20/2024 13:48:25	11/20/2024		8.19	7.67
1807	11/20/2024 13:48:30	11/20/2024		8.18	7.67
1808	11/20/2024 13:48:35	11/20/2024		8.18	7.67
1809	11/20/2024 13:48:40	11/20/2024		8.17	7.67
1810	11/20/2024 13:48:45	11/20/2024		8.17	7.67

1811	11/20/2024 13:48:50	11/20/2024	1:48:50	8.17	7.67
1812	11/20/2024 13:48:55	11/20/2024	1:48:55	8.17	7.67
1813	11/20/2024 13:49:00	11/20/2024	1:49:00	8.17	7.67
1814	11/20/2024 13:49:05	11/20/2024	1:49:05	8.17	7.67
1815	11/20/2024 13:49:10	11/20/2024	1:49:10	8.17	7.67
1816	11/20/2024 13:49:15	11/20/2024	1:49:15	8.18	7.67
1817	11/20/2024 13:49:20	11/20/2024	1:49:20	8.18	7.67
1818	11/20/2024 13:49:25	11/20/2024	1:49:25	8.18	7.67
1819	11/20/2024 13:49:30	11/20/2024	1:49:30	8.18	7.67
1820	11/20/2024 13:49:35	11/20/2024	1:49:35	8.17	7.67
1821	11/20/2024 13:49:40	11/20/2024	1:49:40	8.17	7.67
1822	11/20/2024 13:49:45	11/20/2024	1:49:45	8.17	7.67
1823	11/20/2024 13:49:50	11/20/2024	1:49:50	8.17	7.67
1824	11/20/2024 13:49:55	11/20/2024	1:49:55	8.17	7.67
1825	11/20/2024 13:50:00	11/20/2024	1:50:00	8.17	7.67
1826	11/20/2024 13:50:05	11/20/2024	1:50:05	8.17	7.67
1827	11/20/2024 13:50:10	11/20/2024	1:50:10	8.17	7.67
1828	11/20/2024 13:50:15	11/20/2024	1:50:15	8.17	7.67
1829	11/20/2024 13:50:20	11/20/2024	1:50:20	8.17	7.67
1830	11/20/2024 13:50:25	11/20/2024	1:50:25	8.17	7.67
1831	11/20/2024 13:50:30	11/20/2024	1:50:30	8.17	7.67
1832	11/20/2024 13:50:35	11/20/2024	1:50:35	8.17	7.67
1833	11/20/2024 13:50:40	11/20/2024	1:50:40	8.17	7.67
1834	11/20/2024 13:50:45	11/20/2024	1:50:45	8.17	7.67
1835	11/20/2024 13:50:50	11/20/2024	1:50:50	8.17	7.67
1836	11/20/2024 13:50:55	11/20/2024	1:50:55	8.17	7.67
1837	11/20/2024 13:51:00	11/20/2024	1:51:00	8.17	7.67
1838	11/20/2024 13:51:05	11/20/2024	1:51:05	8.17	7.67
1839	11/20/2024 13:51:10	11/20/2024	1:51:10	8.17	7.67
1840	11/20/2024 13:51:15	11/20/2024	1:51:15	8.17	7.67
1841	11/20/2024 13:51:20	11/20/2024	1:51:20	8.17	7.67
1842	11/20/2024 13:51:25	11/20/2024	1:51:25	8.17	7.67
1843	11/20/2024 13:51:30	11/20/2024	1:51:30	8.17	7.67
1844	11/20/2024 13:51:35	11/20/2024	1:51:35	8.17	7.67
1845	11/20/2024 13:51:40	11/20/2024	1:51:40	8.17	7.67
1846	11/20/2024 13:51:45	11/20/2024	1:51:45	8.17	7.67
1847	11/20/2024 13:51:50	11/20/2024	1:51:50	8.17	7.67
1848	11/20/2024 13:51:55	11/20/2024	1:51:55	8.17	7.67
1849	11/20/2024 13:52:00	11/20/2024	1:52:00	8.16	7.67
1850	11/20/2024 13:52:05	11/20/2024	1:52:05	8.16	7.67
1851	11/20/2024 13:52:10	11/20/2024	1:52:10	8.16	7.67
1852	11/20/2024 13:52:15	11/20/2024	1:52:15	8.16	7.67
1853	11/20/2024 13:52:20	11/20/2024	1:52:20	8.16	7.67
1854	11/20/2024 13:52:25	11/20/2024	1:52:25	8.16	7.67
1855	11/20/2024 13:52:30	11/20/2024	1:52:30	8.16	7.67
1856	11/20/2024 13:52:35	11/20/2024	1:52:35	8.16	7.67
1857	11/20/2024 13:52:40	11/20/2024	1:52:40	8.16	7.67
1858	11/20/2024 13:52:45	11/20/2024	1:52:45	8.16	7.67
1859	11/20/2024 13:52:50	11/20/2024	1:52:50	8.16	7.67

1860	11/20/2024 13:52:55	11/20/2024	1:52:55	8.16	7.67
1861	11/20/2024 13:53:00	11/20/2024	1:53:00	8.16	7.67
1862	11/20/2024 13:53:05	11/20/2024	1:53:05	8.16	7.67
1863	11/20/2024 13:53:10	11/20/2024	1:53:10	8.16	7.67
1864	11/20/2024 13:53:15	11/20/2024	1:53:15	8.16	7.67
1865	11/20/2024 13:53:20	11/20/2024	1:53:20	8.16	7.67
1866	11/20/2024 13:53:25	11/20/2024	1:53:25	8.16	7.67
1867	11/20/2024 13:53:30	11/20/2024	1:53:30	8.16	7.67
1868	11/20/2024 13:53:35	11/20/2024	1:53:35	8.16	7.67
1869	11/20/2024 13:53:40	11/20/2024	1:53:40	8.16	7.67
1870	11/20/2024 13:53:45	11/20/2024	1:53:45	8.16	7.67
1871	11/20/2024 13:53:50	11/20/2024	1:53:50	8.16	7.67
1872	11/20/2024 13:53:55	11/20/2024	1:53:55	8.16	7.67
1873	11/20/2024 13:54:00	11/20/2024	1:54:00	8.15	7.67
1874	11/20/2024 13:54:05	11/20/2024	1:54:05	8.15	7.67
1875	11/20/2024 13:54:10	11/20/2024	1:54:10	8.14	7.97
1876	11/20/2024 13:54:15	11/20/2024	1:54:15	8.13	8.04
1877	11/20/2024 13:54:20	11/20/2024	1:54:20	8.11	8.01
1878	11/20/2024 13:54:25	11/20/2024	1:54:25	8.10	8.00
1879	11/20/2024 13:54:30	11/20/2024	1:54:30	8.09	8.01
1880	11/20/2024 13:54:35	11/20/2024	1:54:35	8.09	7.99
1881	11/20/2024 13:54:40	11/20/2024	1:54:40	8.08	7.97
1882	11/20/2024 13:54:45	11/20/2024	1:54:45	8.07	7.90
1883	11/20/2024 13:54:50	11/20/2024	1:54:50	8.06	7.85
1884	11/20/2024 13:54:55	11/20/2024	1:54:55	8.06	7.85
1885	11/20/2024 13:55:00	11/20/2024	1:55:00	8.05	7.85
1886	11/20/2024 13:55:05	11/20/2024	1:55:05	8.04	7.88
1887	11/20/2024 13:55:10	11/20/2024	1:55:10	8.02	7.91
1888	11/20/2024 13:55:15	11/20/2024	1:55:15	8.01	7.91
1889	11/20/2024 13:55:20	11/20/2024	1:55:20	8.00	7.91
1890	11/20/2024 13:55:25	11/20/2024	1:55:25	7.99	7.91
1891	11/20/2024 13:55:30	11/20/2024	1:55:30	7.98	7.91
1892	11/20/2024 13:55:35	11/20/2024	1:55:35	7.97	7.91
1893	11/20/2024 13:55:40	11/20/2024	1:55:40	7.97	7.91
1894	11/20/2024 13:55:45	11/20/2024	1:55:45	7.96	7.91
1895	11/20/2024 13:55:50	11/20/2024	1:55:50	7.96	7.91
1896	11/20/2024 13:55:55	11/20/2024	1:55:55	7.96	7.91
1897	11/20/2024 13:56:00	11/20/2024	1:56:00	7.95	7.92
1898	11/20/2024 13:56:05	11/20/2024	1:56:05	7.94	7.92
1899	11/20/2024 13:56:10	11/20/2024	1:56:10	7.94	7.92
1900	11/20/2024 13:56:15	11/20/2024	1:56:15	7.93	7.92
1901	11/20/2024 13:56:20	11/20/2024	1:56:20	7.93	7.92
1902	11/20/2024 13:56:25	11/20/2024	1:56:25	7.93	7.91
1903	11/20/2024 13:56:30	11/20/2024	1:56:30	7.93	7.91
1904	11/20/2024 13:56:35	11/20/2024	1:56:35	7.93	7.92
1905	11/20/2024 13:56:40	11/20/2024	1:56:40	7.93	7.91
1906	11/20/2024 13:56:45	11/20/2024	1:56:45	7.93	7.91
1907	11/20/2024 13:56:50	11/20/2024	1:56:50	7.93	7.91
1908	11/20/2024 13:56:55	11/20/2024	1:56:55	7.93	7.91

1909	11/20/2024 13:57:00	11/20/2024	1:57:00	7.93	7.91
1910	11/20/2024 13:57:05	11/20/2024	1:57:05	7.92	7.91
1911	11/20/2024 13:57:10	11/20/2024	1:57:10	7.92	7.91
1912	11/20/2024 13:57:15	11/20/2024	1:57:15	7.92	7.91
1913	11/20/2024 13:57:20	11/20/2024	1:57:20	7.92	7.91
1914	11/20/2024 13:57:25	11/20/2024	1:57:25	7.92	7.91
1915	11/20/2024 13:57:30	11/20/2024	1:57:30	7.92	7.90
1916	11/20/2024 13:57:35	11/20/2024	1:57:35	7.92	7.90
1917	11/20/2024 13:57:40	11/20/2024	1:57:40	7.92	7.90
1918	11/20/2024 13:57:45	11/20/2024	1:57:45	7.92	7.90
1919	11/20/2024 13:57:50	11/20/2024	1:57:50	7.92	7.90
1920	11/20/2024 13:57:55	11/20/2024	1:57:55	7.92	7.90
1921	11/20/2024 13:58:00	11/20/2024	1:58:00	7.91	7.90
1922	11/20/2024 13:58:05	11/20/2024	1:58:05	7.91	7.90
1923	11/20/2024 13:58:10	11/20/2024	1:58:10	7.91	7.89
1924	11/20/2024 13:58:15	11/20/2024	1:58:15	7.91	7.89
1925	11/20/2024 13:58:20	11/20/2024	1:58:20	7.91	7.89
1926	11/20/2024 13:58:25	11/20/2024	1:58:25	7.90	7.89
1927	11/20/2024 13:58:30	11/20/2024	1:58:30	7.90	7.89
1928	11/20/2024 13:58:35	11/20/2024	1:58:35	7.90	7.89
1929	11/20/2024 13:58:40	11/20/2024	1:58:40	7.90	7.89
1930	11/20/2024 13:58:45	11/20/2024	1:58:45	7.90	7.89
1931	11/20/2024 13:58:50	11/20/2024	1:58:50	7.90	7.89
1932	11/20/2024 13:58:55	11/20/2024	1:58:55	7.90	7.89
1933	11/20/2024 13:59:00	11/20/2024	1:59:00	7.90	7.89
1934	11/20/2024 13:59:05	11/20/2024	1:59:05	7.89	7.89
1935	11/20/2024 13:59:10	11/20/2024	1:59:10	7.90	7.88
1936	11/20/2024 13:59:15	11/20/2024	1:59:15	7.90	7.88
1937	11/20/2024 13:59:20	11/20/2024	1:59:20	7.89	7.88
1938	11/20/2024 13:59:25	11/20/2024	1:59:25	7.89	7.88
1939	11/20/2024 13:59:30	11/20/2024	1:59:30	7.89	7.88
1940	11/20/2024 13:59:35	11/20/2024	1:59:35	7.89	7.88
1941	11/20/2024 13:59:40	11/20/2024	1:59:40	7.89	7.88
1942	11/20/2024 13:59:45	11/20/2024	1:59:45	7.89	7.88
1943	11/20/2024 13:59:50	11/20/2024	1:59:50	7.89	7.88
1944	11/20/2024 13:59:55	11/20/2024	1:59:55	7.88	7.88
1945	11/20/2024 14:00:00	11/20/2024	2:00:00	7.88	7.87
1946	11/20/2024 14:00:05	11/20/2024	2:00:05	7.88	7.88
1947	11/20/2024 14:00:10	11/20/2024	2:00:10	7.88	7.88
1948	11/20/2024 14:00:15	11/20/2024	2:00:15	7.88	7.88
1949	11/20/2024 14:00:20	11/20/2024	2:00:20	7.88	7.88
1950	11/20/2024 14:00:25	11/20/2024	2:00:25	7.88	7.87
1951	11/20/2024 14:00:30	11/20/2024	2:00:30	7.88	7.87
1952	11/20/2024 14:00:35	11/20/2024	2:00:35	7.88	7.87
1953	11/20/2024 14:00:40	11/20/2024	2:00:40	7.88	7.87
1954	11/20/2024 14:00:45	11/20/2024	2:00:45	7.88	7.87
1955	11/20/2024 14:00:50	11/20/2024	2:00:50	7.88	7.87
1956	11/20/2024 14:00:55	11/20/2024	2:00:55	7.88	7.87
1957	11/20/2024 14:01:00	11/20/2024	2:01:00	7.88	7.87

1958	11/20/2024 14:01:05	11/20/2024	2:01:05	7.88	7.87
1959	11/20/2024 14:01:10	11/20/2024	2:01:10	7.88	7.87
1960	11/20/2024 14:01:15	11/20/2024	2:01:15	7.88	7.87
1961	11/20/2024 14:01:20	11/20/2024	2:01:20	7.87	7.86
1962	11/20/2024 14:01:25	11/20/2024	2:01:25	7.87	7.86
1963	11/20/2024 14:01:30	11/20/2024	2:01:30	7.87	7.86
1964	11/20/2024 14:01:35	11/20/2024	2:01:35	7.87	7.86
1965	11/20/2024 14:01:40	11/20/2024	2:01:40	7.87	7.86
1966	11/20/2024 14:01:45	11/20/2024	2:01:45	7.87	7.86
1967	11/20/2024 14:01:50	11/20/2024	2:01:50	7.86	7.86
1968	11/20/2024 14:01:55	11/20/2024	2:01:55	7.86	7.86
1969	11/20/2024 14:02:00	11/20/2024	2:02:00	7.86	7.86
1970	11/20/2024 14:02:05	11/20/2024	2:02:05	7.86	7.86
1971	11/20/2024 14:02:10	11/20/2024	2:02:10	7.86	7.86
1972	11/20/2024 14:02:15	11/20/2024	2:02:15	7.86	7.86
1973	11/20/2024 14:02:20	11/20/2024	2:02:20	7.86	7.86
1974	11/20/2024 14:02:25	11/20/2024	2:02:25	7.86	7.86
1975	11/20/2024 14:02:30	11/20/2024	2:02:30	7.86	7.85
1976	11/20/2024 14:02:35	11/20/2024	2:02:35	7.86	7.85
1977	11/20/2024 14:02:40	11/20/2024	2:02:40	7.86	7.85
1978	11/20/2024 14:02:45	11/20/2024	2:02:45	7.85	7.85
1979	11/20/2024 14:02:50	11/20/2024	2:02:50	7.85	7.85
1980	11/20/2024 14:02:55	11/20/2024	2:02:55	7.85	7.85
1981	11/20/2024 14:03:00	11/20/2024	2:03:00	7.85	7.85
1982	11/20/2024 14:03:05	11/20/2024	2:03:05	7.85	7.85
1983	11/20/2024 14:03:10	11/20/2024	2:03:10	7.85	7.85
1984	11/20/2024 14:03:15	11/20/2024	2:03:15	7.85	7.85
1985	11/20/2024 14:03:20	11/20/2024	2:03:20	7.85	7.84
1986	11/20/2024 14:03:25	11/20/2024	2:03:25	7.85	7.85
1987	11/20/2024 14:03:30	11/20/2024	2:03:30	7.85	7.84
1988	11/20/2024 14:03:35	11/20/2024	2:03:35	7.85	7.84
1989	11/20/2024 14:03:40	11/20/2024	2:03:40	7.85	7.84
1990	11/20/2024 14:03:45	11/20/2024	2:03:45	7.85	7.84
1991	11/20/2024 14:03:50	11/20/2024	2:03:50	7.85	7.84
1992	11/20/2024 14:03:55	11/20/2024	2:03:55	7.85	7.84
1993	11/20/2024 14:04:00	11/20/2024	2:04:00	7.84	7.84
1994	11/20/2024 14:04:05	11/20/2024	2:04:05	7.84	7.84
1995	11/20/2024 14:04:10	11/20/2024	2:04:10	7.84	7.84
1996	11/20/2024 14:04:15	11/20/2024	2:04:15	7.84	7.84
1997	11/20/2024 14:04:20	11/20/2024	2:04:20	7.84	7.84
1998	11/20/2024 14:04:25	11/20/2024	2:04:25	7.84	7.84
1999	11/20/2024 14:04:30	11/20/2024	2:04:30	7.84	7.84
2000	11/20/2024 14:04:35	11/20/2024	2:04:35	7.84	7.84
2001	11/20/2024 14:04:40	11/20/2024	2:04:40	7.84	7.84
2002	11/20/2024 14:04:45	11/20/2024	2:04:45	7.84	7.84
2003	11/20/2024 14:04:50	11/20/2024	2:04:50	7.84	7.84
2004	11/20/2024 14:04:55	11/20/2024	2:04:55	7.84	7.83
2005	11/20/2024 14:05:00	11/20/2024	2:05:00	7.84	7.83
2006	11/20/2024 14:05:05	11/20/2024	2:05:05	7.84	7.83

2007	11/20/2024 14:05:10	11/20/2024	2:05:10	7.84	7.83
2008	11/20/2024 14:05:15	11/20/2024	2:05:15	7.84	7.83
2009	11/20/2024 14:05:20	11/20/2024	2:05:20	7.84	7.83
2010	11/20/2024 14:05:25	11/20/2024	2:05:25	7.83	7.83
2011	11/20/2024 14:05:30	11/20/2024	2:05:30	7.83	7.83
2012	11/20/2024 14:05:35	11/20/2024	2:05:35	7.83	7.83
2013	11/20/2024 14:05:40	11/20/2024	2:05:40	7.83	7.83
2014	11/20/2024 14:05:45	11/20/2024	2:05:45	7.83	7.83
2015	11/20/2024 14:05:50	11/20/2024	2:05:50	7.83	7.83
2016	11/20/2024 14:05:55	11/20/2024	2:05:55	7.83	7.83
2017	11/20/2024 14:06:00	11/20/2024	2:06:00	7.83	7.83
2018	11/20/2024 14:06:05	11/20/2024	2:06:05	7.83	7.83
2019	11/20/2024 14:06:10	11/20/2024	2:06:10	7.83	7.83
2020	11/20/2024 14:06:15	11/20/2024	2:06:15	7.83	7.83
2021	11/20/2024 14:06:20	11/20/2024	2:06:20	7.83	7.83
2022	11/20/2024 14:06:25	11/20/2024	2:06:25	7.83	7.82
2023	11/20/2024 14:06:30	11/20/2024	2:06:30	7.83	7.82
2024	11/20/2024 14:06:35	11/20/2024	2:06:35	7.82	7.82
2025	11/20/2024 14:06:40	11/20/2024	2:06:40	7.82	7.82
2026	11/20/2024 14:06:45	11/20/2024	2:06:45	7.82	7.82
2027	11/20/2024 14:06:50	11/20/2024	2:06:50	7.82	7.82
2028	11/20/2024 14:06:55	11/20/2024	2:06:55	7.82	7.82
2029	11/20/2024 14:07:00	11/20/2024	2:07:00	7.82	7.82
2030	11/20/2024 14:07:05	11/20/2024	2:07:05	7.82	7.82
2031	11/20/2024 14:07:10	11/20/2024	2:07:10	7.82	7.82
2032	11/20/2024 14:07:15	11/20/2024	2:07:15	7.82	7.82
2033	11/20/2024 14:07:20	11/20/2024	2:07:20	7.82	7.82
2034	11/20/2024 14:07:25	11/20/2024	2:07:25	7.82	7.82
2035	11/20/2024 14:07:30	11/20/2024	2:07:30	7.82	7.82
2036	11/20/2024 14:07:35	11/20/2024	2:07:35	7.82	7.82
2037	11/20/2024 14:07:40	11/20/2024	2:07:40	7.82	7.82
2038	11/20/2024 14:07:45	11/20/2024	2:07:45	7.82	7.82
2039	11/20/2024 14:07:50	11/20/2024	2:07:50	7.82	7.82
2040	11/20/2024 14:07:55	11/20/2024	2:07:55	7.82	7.82
2041	11/20/2024 14:08:00	11/20/2024	2:08:00	7.82	7.81
2042	11/20/2024 14:08:05	11/20/2024	2:08:05	7.82	7.81
2043	11/20/2024 14:08:10	11/20/2024	2:08:10	7.82	7.81
2044	11/20/2024 14:08:15	11/20/2024	2:08:15	7.82	7.81
2045	11/20/2024 14:08:20	11/20/2024	2:08:20	7.82	7.81
2046	11/20/2024 14:08:25	11/20/2024	2:08:25	7.81	7.81
2047	11/20/2024 14:08:30	11/20/2024	2:08:30	7.81	7.81
2048	11/20/2024 14:08:35	11/20/2024	2:08:35	7.81	7.81
2049	11/20/2024 14:08:40	11/20/2024	2:08:40	7.81	7.81
2050	11/20/2024 14:08:45	11/20/2024	2:08:45	7.81	7.81
2051	11/20/2024 14:08:50	11/20/2024	2:08:50	7.81	7.81
2052	11/20/2024 14:08:55	11/20/2024	2:08:55	7.81	7.81
2053	11/20/2024 14:09:00	11/20/2024	2:09:00	7.81	7.81
2054	11/20/2024 14:09:05	11/20/2024	2:09:05	7.81	7.81
2055	11/20/2024 14:09:10	11/20/2024	2:09:10	7.81	7.81

2056	11/20/2024 14:09:15	11/20/2024	2:09:15	7.81	7.81
2057	11/20/2024 14:09:20	11/20/2024	2:09:20	7.81	7.81
2058	11/20/2024 14:09:25	11/20/2024	2:09:25	7.81	7.81
2059	11/20/2024 14:09:30	11/20/2024	2:09:30	7.81	7.81
2060	11/20/2024 14:09:35	11/20/2024	2:09:35	7.81	7.81
2061	11/20/2024 14:09:40	11/20/2024	2:09:40	7.81	7.80
2062	11/20/2024 14:09:45	11/20/2024	2:09:45	7.81	7.80
2063	11/20/2024 14:09:50	11/20/2024	2:09:50	7.81	7.80
2064	11/20/2024 14:09:55	11/20/2024	2:09:55	7.81	7.80
2065	11/20/2024 14:10:00	11/20/2024	2:10:00	7.81	7.80
2066	11/20/2024 14:10:05	11/20/2024	2:10:05	7.81	7.80
2067	11/20/2024 14:10:10	11/20/2024	2:10:10	7.81	7.80
2068	11/20/2024 14:10:15	11/20/2024	2:10:15	7.81	7.80
2069	11/20/2024 14:10:20	11/20/2024	2:10:20	7.81	7.80
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2071	11/20/2024 14:10:30	11/20/2024	2:10:30	7.80	7.80
2072	11/20/2024 14:10:35	11/20/2024	2:10:35	7.80	7.80
2073	11/20/2024 14:10:40	11/20/2024	2:10:40	7.80	7.80
2074	11/20/2024 14:10:45	11/20/2024	2:10:45	7.80	7.80
2075	11/20/2024 14:10:50	11/20/2024	2:10:50	7.80	7.80
2076	11/20/2024 14:10:55	11/20/2024	2:10:55	7.80	7.80
2077	11/20/2024 14:11:00	11/20/2024	2:11:00	7.80	7.80
2078	11/20/2024 14:11:05	11/20/2024	2:11:05	7.80	7.80
2079	11/20/2024 14:11:10	11/20/2024	2:11:10	7.80	7.80
2080	11/20/2024 14:11:15	11/20/2024	2:11:15	7.80	7.80
2081	11/20/2024 14:11:20	11/20/2024	2:11:20	7.80	7.80
2082	11/20/2024 14:11:25	11/20/2024	2:11:25	7.80	7.80
2083	11/20/2024 14:11:30	11/20/2024	2:11:30	7.80	7.79
2084	11/20/2024 14:11:35	11/20/2024	2:11:35	7.80	7.79
2085	11/20/2024 14:11:40	11/20/2024	2:11:40	7.79	7.79
2086	11/20/2024 14:11:45	11/20/2024	2:11:45	7.79	7.79
2087	11/20/2024 14:11:50	11/20/2024	2:11:50	7.79	7.79
2088	11/20/2024 14:11:55	11/20/2024	2:11:55	7.79	7.79
2089	11/20/2024 14:12:00	11/20/2024	2:12:00	7.79	7.79
2090	11/20/2024 14:12:05	11/20/2024	2:12:05	7.79	7.79
2091	11/20/2024 14:12:10	11/20/2024	2:12:10	7.79	7.79
2092	11/20/2024 14:12:15	11/20/2024	2:12:15	7.79	7.79
2093	11/20/2024 14:12:20	11/20/2024	2:12:20	7.79	7.79
2094	11/20/2024 14:12:25	11/20/2024	2:12:25	7.79	7.79
2095	11/20/2024 14:12:30	11/20/2024	2:12:30	7.79	7.79
2096	11/20/2024 14:12:35	11/20/2024	2:12:35	7.79	7.79
2097	11/20/2024 14:12:40	11/20/2024	2:12:40	7.79	7.79
2098	11/20/2024 14:12:45	11/20/2024	2:12:45	7.79	7.79
2099	11/20/2024 14:12:50	11/20/2024	2:12:50	7.79	7.79
2100	11/20/2024 14:12:55	11/20/2024	2:12:55	7.79	7.79
2101	11/20/2024 14:13:00	11/20/2024	2:13:00	7.79	7.79
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2103	11/20/2024 14:13:10	11/20/2024	2:13:10	7.79	7.79
2104	11/20/2024 14:13:15	11/20/2024	2:13:15	7.79	7.79

2105	11/20/2024 14:13:20	11/20/2024	2:13:20	7.79	7.79
2106	11/20/2024 14:13:25	11/20/2024	2:13:25	7.79	7.79
2107	11/20/2024 14:13:30	11/20/2024	2:13:30	7.79	7.79
2108	11/20/2024 14:13:35	11/20/2024	2:13:35	7.79	7.78
2109	11/20/2024 14:13:40	11/20/2024	2:13:40	7.79	7.78
2110	11/20/2024 14:13:45	11/20/2024	2:13:45	7.79	7.78
2111	11/20/2024 14:13:50	11/20/2024	2:13:50	7.78	7.78
2112	11/20/2024 14:13:55	11/20/2024	2:13:55	7.78	7.78
2113	11/20/2024 14:14:00	11/20/2024	2:14:00	7.78	7.78
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2116	11/20/2024 14:14:15	11/20/2024	2:14:15	7.78	7.78
2117	11/20/2024 14:14:20	11/20/2024	2:14:20	7.78	7.78
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2119	11/20/2024 14:14:30	11/20/2024	2:14:30	7.78	7.78
2120	11/20/2024 14:14:35	11/20/2024	2:14:35	7.78	7.78
2121	11/20/2024 14:14:40	11/20/2024	2:14:40	7.78	7.78
2122	11/20/2024 14:14:45	11/20/2024	2:14:45	7.78	7.78
2123	11/20/2024 14:14:50	11/20/2024	2:14:50	7.78	7.78
2124	11/20/2024 14:14:55	11/20/2024	2:14:55	7.78	7.78
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2127	11/20/2024 14:15:10	11/20/2024	2:15:10	7.78	7.78
2128	11/20/2024 14:15:15	11/20/2024	2:15:15	7.78	7.78
2129	11/20/2024 14:15:20	11/20/2024	2:15:20	7.78	7.78
2130	11/20/2024 14:15:25	11/20/2024	2:15:25	7.78	7.78
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2132	11/20/2024 14:15:35	11/20/2024	2:15:35	7.78	7.78
2133	11/20/2024 14:15:40	11/20/2024	2:15:40	7.78	7.78
2134	11/20/2024 14:15:45	11/20/2024	2:15:45	7.78	7.78
2135	11/20/2024 14:15:50	11/20/2024	2:15:50	7.78	7.78
2136	11/20/2024 14:15:55	11/20/2024	2:15:55	7.78	7.78
2137	11/20/2024 14:16:00	11/20/2024	2:16:00	7.78	7.77
2138	11/20/2024 14:16:05	11/20/2024	2:16:05	7.77	7.77
2139	11/20/2024 14:16:10	11/20/2024	2:16:10	7.77	7.77
2140	11/20/2024 14:16:15	11/20/2024	2:16:15	7.77	7.77
2141	11/20/2024 14:16:20	11/20/2024	2:16:20	7.77	7.77
2142	11/20/2024 14:16:25	11/20/2024	2:16:25	7.77	7.77
2143	11/20/2024 14:16:30	11/20/2024	2:16:30	7.77	7.77
2144	11/20/2024 14:16:35	11/20/2024	2:16:35	7.77	7.77
2145	11/20/2024 14:16:40	11/20/2024	2:16:40	7.77	7.77
2146	11/20/2024 14:16:45	11/20/2024	2:16:45	7.77	7.77
2147	11/20/2024 14:16:50	11/20/2024	2:16:50	7.77	7.77
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2149	11/20/2024 14:17:00	11/20/2024	2:17:00	7.77	7.77
2150	11/20/2024 14:17:05	11/20/2024	2:17:05	7.77	7.77
2151	11/20/2024 14:17:10	11/20/2024	2:17:10	7.77	7.77
2152	11/20/2024 14:17:15	11/20/2024	2:17:15	7.77	7.77
2153	11/20/2024 14:17:20	11/20/2024	2:17:20	7.77	7.77

2154	11/20/2024 14:17:25	11/20/2024	2:17:25	7.77	7.77
2155	11/20/2024 14:17:30	11/20/2024	2:17:30	7.77	7.77
2156	11/20/2024 14:17:35	11/20/2024	2:17:35	7.77	7.77
2157	11/20/2024 14:17:40	11/20/2024	2:17:40	7.77	7.77
2158	11/20/2024 14:17:45	11/20/2024	2:17:45	7.77	7.77
2159	11/20/2024 14:17:50	11/20/2024	2:17:50	7.77	7.77
2160	11/20/2024 14:17:55	11/20/2024	2:17:55	7.77	7.77
2161	11/20/2024 14:18:00	11/20/2024	2:18:00	7.77	7.77
2162	11/20/2024 14:18:05	11/20/2024	2:18:05	7.77	7.77
2163	11/20/2024 14:18:10	11/20/2024	2:18:10	7.77	7.77
2164	11/20/2024 14:18:15	11/20/2024	2:18:15	7.77	7.77
2165	11/20/2024 14:18:20	11/20/2024	2:18:20	7.77	7.77
2166	11/20/2024 14:18:25	11/20/2024	2:18:25	7.77	7.77
2167	11/20/2024 14:18:30	11/20/2024	2:18:30	7.76	7.77
2168	11/20/2024 14:18:35	11/20/2024	2:18:35	7.76	7.76
2169	11/20/2024 14:18:40	11/20/2024	2:18:40	7.76	7.76
2170	11/20/2024 14:18:45	11/20/2024	2:18:45	7.76	7.76
2171	11/20/2024 14:18:50	11/20/2024	2:18:50	7.76	7.76
2172	11/20/2024 14:18:55	11/20/2024	2:18:55	7.76	7.76
2173	11/20/2024 14:19:00	11/20/2024	2:19:00	7.76	7.76
2174	11/20/2024 14:19:05	11/20/2024	2:19:05	7.76	7.76
2175	11/20/2024 14:19:10	11/20/2024	2:19:10	7.76	7.76
2176	11/20/2024 14:19:15	11/20/2024	2:19:15	7.76	7.76
2177	11/20/2024 14:19:20	11/20/2024	2:19:20	7.76	7.76
2178	11/20/2024 14:19:25	11/20/2024	2:19:25	7.76	7.76
2179	11/20/2024 14:19:30	11/20/2024	2:19:30	7.76	7.76
2180	11/20/2024 14:19:35	11/20/2024	2:19:35	7.76	7.76
2181	11/20/2024 14:19:40	11/20/2024	2:19:40	7.76	7.76
2182	11/20/2024 14:19:45	11/20/2024	2:19:45	7.76	7.76
2183	11/20/2024 14:19:50	11/20/2024	2:19:50	7.76	7.76
2184	11/20/2024 14:19:55	11/20/2024	2:19:55	7.76	7.76
2185	11/20/2024 14:20:00	11/20/2024	2:20:00	7.76	7.76
2186	11/20/2024 14:20:05	11/20/2024	2:20:05	7.76	7.76
2187	11/20/2024 14:20:10	11/20/2024	2:20:10	7.76	7.76
2188	11/20/2024 14:20:15	11/20/2024	2:20:15	7.76	7.76
2189	11/20/2024 14:20:20	11/20/2024	2:20:20	7.76	7.76
2190	11/20/2024 14:20:25	11/20/2024	2:20:25	7.76	7.76
2191	11/20/2024 14:20:30	11/20/2024	2:20:30	7.76	7.76
2192	11/20/2024 14:20:35	11/20/2024	2:20:35	7.76	7.76
2193	11/20/2024 14:20:40	11/20/2024	2:20:40	7.76	7.76
2194	11/20/2024 14:20:45	11/20/2024	2:20:45	7.76	7.76
2195	11/20/2024 14:20:50	11/20/2024	2:20:50	7.76	7.76
2196	11/20/2024 14:20:55	11/20/2024	2:20:55	7.76	7.76
2197	11/20/2024 14:21:00	11/20/2024	2:21:00	7.76	7.76
2198	11/20/2024 14:21:05	11/20/2024	2:21:05	7.76	7.76
2199	11/20/2024 14:21:10	11/20/2024	2:21:10	7.76	7.76
2200	11/20/2024 14:21:15	11/20/2024	2:21:15	7.76	7.76
2201	11/20/2024 14:21:20	11/20/2024	2:21:20	7.76	7.76
2202	11/20/2024 14:21:25	11/20/2024	2:21:25	7.75	7.76

2203	11/20/2024 14:21:30	11/20/2024	2:21:30	7.75	7.76
2204	11/20/2024 14:21:35	11/20/2024	2:21:35	7.75	7.76
2205	11/20/2024 14:21:40	11/20/2024	2:21:40	7.75	7.76
2206	11/20/2024 14:21:45	11/20/2024	2:21:45	7.75	7.76
2207	11/20/2024 14:21:50	11/20/2024	2:21:50	7.75	7.76
2208	11/20/2024 14:21:55	11/20/2024	2:21:55	7.75	7.76
2209	11/20/2024 14:22:00	11/20/2024	2:22:00	7.75	7.76
2210	11/20/2024 14:22:05	11/20/2024	2:22:05	7.75	7.76
2211	11/20/2024 14:22:10	11/20/2024	2:22:10	7.75	7.75
2212	11/20/2024 14:22:15	11/20/2024	2:22:15	7.75	7.76
2213	11/20/2024 14:22:20	11/20/2024	2:22:20	7.75	7.75
2214	11/20/2024 14:22:25	11/20/2024	2:22:25	7.75	7.75
2215	11/20/2024 14:22:30	11/20/2024	2:22:30	7.75	7.75
2216	11/20/2024 14:22:35	11/20/2024	2:22:35	7.75	7.75
2217	11/20/2024 14:22:40	11/20/2024	2:22:40	7.75	7.75
2218	11/20/2024 14:22:45	11/20/2024	2:22:45	7.75	7.75
2219	11/20/2024 14:22:50	11/20/2024	2:22:50	7.75	7.75
2220	11/20/2024 14:22:55	11/20/2024	2:22:55	7.75	7.75
2221	11/20/2024 14:23:00	11/20/2024	2:23:00	7.75	7.75
2222	11/20/2024 14:23:05	11/20/2024	2:23:05	7.75	7.75
2223	11/20/2024 14:23:10	11/20/2024	2:23:10	7.75	7.75
2224	11/20/2024 14:23:15	11/20/2024	2:23:15	7.75	7.75
2225	11/20/2024 14:23:20	11/20/2024	2:23:20	7.75	7.75
2226	11/20/2024 14:23:25	11/20/2024	2:23:25	7.75	7.75
2227	11/20/2024 14:23:30	11/20/2024	2:23:30	7.75	7.75
2228	11/20/2024 14:23:35	11/20/2024	2:23:35	7.75	7.75
2229	11/20/2024 14:23:40	11/20/2024	2:23:40	7.75	7.75
2230	11/20/2024 14:23:45	11/20/2024	2:23:45	7.75	7.75
2231	11/20/2024 14:23:50	11/20/2024	2:23:50	7.75	7.75
2232	11/20/2024 14:23:55	11/20/2024	2:23:55	7.75	7.75
2233	11/20/2024 14:24:00	11/20/2024	2:24:00	7.75	7.75
2234	11/20/2024 14:24:05	11/20/2024	2:24:05	7.75	7.75
2235	11/20/2024 14:24:10	11/20/2024	2:24:10	7.75	7.75
2236	11/20/2024 14:24:15	11/20/2024	2:24:15	7.75	7.75
2237	11/20/2024 14:24:20	11/20/2024	2:24:20	7.75	7.75
2238	11/20/2024 14:24:25	11/20/2024	2:24:25	7.75	7.75
2239	11/20/2024 14:24:30	11/20/2024	2:24:30	7.75	7.75
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2241	11/20/2024 14:24:40	11/20/2024	2:24:40	7.75	7.75
2242	11/20/2024 14:24:45	11/20/2024	2:24:45	7.75	7.75
2243	11/20/2024 14:24:50	11/20/2024	2:24:50	7.75	7.75
2244	11/20/2024 14:24:55	11/20/2024	2:24:55	7.75	7.75
2245	11/20/2024 14:25:00	11/20/2024	2:25:00	7.75	7.75
2246	11/20/2024 14:25:05	11/20/2024	2:25:05	7.75	7.75
2247	11/20/2024 14:25:10	11/20/2024	2:25:10	7.75	7.75
2248	11/20/2024 14:25:15	11/20/2024	2:25:15	7.75	7.75
2249	11/20/2024 14:25:20	11/20/2024	2:25:20	7.74	7.75
2250	11/20/2024 14:25:25	11/20/2024	2:25:25	7.74	7.75
2251	11/20/2024 14:25:30	11/20/2024	2:25:30	7.74	7.74

2252	11/20/2024 14:25:35	11/20/2024	2:25:35	7.74	7.74
2253	11/20/2024 14:25:40	11/20/2024	2:25:40	7.74	7.74
2254	11/20/2024 14:25:45	11/20/2024	2:25:45	7.74	7.74
2255	11/20/2024 14:25:50	11/20/2024	2:25:50	7.74	7.74
2256	11/20/2024 14:25:55	11/20/2024	2:25:55	7.74	7.74
2257	11/20/2024 14:26:00	11/20/2024	2:26:00	7.74	7.74
2258	11/20/2024 14:26:05	11/20/2024	2:26:05	7.74	7.74
2259	11/20/2024 14:26:10	11/20/2024	2:26:10	7.74	7.74
2260	11/20/2024 14:26:15	11/20/2024	2:26:15	7.74	7.74
2261	11/20/2024 14:26:20	11/20/2024	2:26:20	7.74	7.74
2262	11/20/2024 14:26:25	11/20/2024	2:26:25	7.74	7.74
2263	11/20/2024 14:26:30	11/20/2024	2:26:30	7.74	7.74
2264	11/20/2024 14:26:35	11/20/2024	2:26:35	7.74	7.74
2265	11/20/2024 14:26:40	11/20/2024	2:26:40	7.74	7.74
2266	11/20/2024 14:26:45	11/20/2024	2:26:45	7.74	7.74
2267	11/20/2024 14:26:50	11/20/2024	2:26:50	7.74	7.74
2268	11/20/2024 14:26:55	11/20/2024	2:26:55	7.74	7.74
2269	11/20/2024 14:27:00	11/20/2024	2:27:00	7.74	7.74
2270	11/20/2024 14:27:05	11/20/2024	2:27:05	7.74	7.74
2271	11/20/2024 14:27:10	11/20/2024	2:27:10	7.74	7.74
2272	11/20/2024 14:27:15	11/20/2024	2:27:15	7.74	7.74
2273	11/20/2024 14:27:20	11/20/2024	2:27:20	7.74	7.74
2274	11/20/2024 14:27:25	11/20/2024	2:27:25	7.74	7.74
2275	11/20/2024 14:27:30	11/20/2024	2:27:30	7.74	7.74
2276	11/20/2024 14:27:35	11/20/2024	2:27:35	7.74	7.74
2277	11/20/2024 14:27:40	11/20/2024	2:27:40	7.74	7.74
2278	11/20/2024 14:27:45	11/20/2024	2:27:45	7.74	7.74
2279	11/20/2024 14:27:50	11/20/2024	2:27:50	7.74	7.74
2280	11/20/2024 14:27:55	11/20/2024	2:27:55	7.74	7.74
2281	11/20/2024 14:28:00	11/20/2024	2:28:00	7.74	7.74
2282	11/20/2024 14:28:05	11/20/2024	2:28:05	7.74	7.74
2283	11/20/2024 14:28:10	11/20/2024	2:28:10	7.74	7.74
2284	11/20/2024 14:28:15	11/20/2024	2:28:15	7.74	7.74
2285	11/20/2024 14:28:20	11/20/2024	2:28:20	7.74	7.74
2286	11/20/2024 14:28:25	11/20/2024	2:28:25	7.74	7.74
2287	11/20/2024 14:28:30	11/20/2024	2:28:30	7.74	7.74
2288	11/20/2024 14:28:35	11/20/2024	2:28:35	7.74	7.74
2289	11/20/2024 14:28:40	11/20/2024	2:28:40	7.74	7.74
2290	11/20/2024 14:28:45	11/20/2024	2:28:45	7.74	7.74
2291	11/20/2024 14:28:50	11/20/2024	2:28:50	7.74	7.74
2292	11/20/2024 14:28:55	11/20/2024	2:28:55	7.74	7.74
2293	11/20/2024 14:29:00	11/20/2024	2:29:00	7.74	7.74
2294	11/20/2024 14:29:05	11/20/2024	2:29:05	7.74	7.74
2295	11/20/2024 14:29:10	11/20/2024	2:29:10	7.74	7.74
2296	11/20/2024 14:29:15	11/20/2024	2:29:15	7.74	7.74
2297	11/20/2024 14:29:20	11/20/2024	2:29:20	7.74	7.74
2298	11/20/2024 14:29:25	11/20/2024	2:29:25	7.74	7.74
2299	11/20/2024 14:29:30	11/20/2024	2:29:30	7.74	7.74
2300	11/20/2024 14:29:35	11/20/2024	2:29:35	7.74	7.74

2301	11/20/2024 14:29:40	11/20/2024	2:29:40	7.74	7.74
2302	11/20/2024 14:29:45	11/20/2024	2:29:45	7.74	7.74
2303	11/20/2024 14:29:50	11/20/2024	2:29:50	7.74	7.74
2304	11/20/2024 14:29:55	11/20/2024	2:29:55	7.74	7.74
2305	11/20/2024 14:30:00	11/20/2024	2:30:00	7.74	7.74
2306	11/20/2024 14:30:05	11/20/2024	2:30:05	7.74	7.74
2307	11/20/2024 14:30:10	11/20/2024	2:30:10	7.73	7.74
2308	11/20/2024 14:30:15	11/20/2024	2:30:15	7.73	7.74
2309	11/20/2024 14:30:20	11/20/2024	2:30:20	7.73	7.74
2310	11/20/2024 14:30:25	11/20/2024	2:30:25	7.73	7.74
2311	11/20/2024 14:30:30	11/20/2024	2:30:30	7.73	7.74
2312	11/20/2024 14:30:35	11/20/2024	2:30:35	7.73	7.74
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2314	11/20/2024 14:30:45	11/20/2024	2:30:45	7.73	7.74
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2317	11/20/2024 14:31:00	11/20/2024	2:31:00	7.73	7.74
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2319	11/20/2024 14:31:10	11/20/2024	2:31:10	7.73	7.74
2320	11/20/2024 14:31:15	11/20/2024	2:31:15	7.73	7.73
2321	11/20/2024 14:31:20	11/20/2024	2:31:20	7.73	7.73
2322	11/20/2024 14:31:25	11/20/2024	2:31:25	7.73	7.73
2323	11/20/2024 14:31:30	11/20/2024	2:31:30	7.73	7.73
2324	11/20/2024 14:31:35	11/20/2024	2:31:35	7.73	7.73
2325	11/20/2024 14:31:40	11/20/2024	2:31:40	7.73	7.73
2326	11/20/2024 14:31:45	11/20/2024	2:31:45	7.73	7.74
2327	11/20/2024 14:31:50	11/20/2024	2:31:50	7.73	7.73
2328	11/20/2024 14:31:55	11/20/2024	2:31:55	7.73	7.73
2329	11/20/2024 14:32:00	11/20/2024	2:32:00	7.73	7.73
2330	11/20/2024 14:32:05	11/20/2024	2:32:05	7.73	7.73
2331	11/20/2024 14:32:10	11/20/2024	2:32:10	7.73	7.73
2332	11/20/2024 14:32:15	11/20/2024	2:32:15	7.73	7.73
2333	11/20/2024 14:32:20	11/20/2024	2:32:20	7.73	7.73
2334	11/20/2024 14:32:25	11/20/2024	2:32:25	7.73	7.73
2335	11/20/2024 14:32:30	11/20/2024	2:32:30	7.73	7.73
2336	11/20/2024 14:32:35	11/20/2024	2:32:35	7.73	7.73
2337	11/20/2024 14:32:40	11/20/2024	2:32:40	7.73	7.73
2338	11/20/2024 14:32:45	11/20/2024	2:32:45	7.73	7.73
2339	11/20/2024 14:32:50	11/20/2024	2:32:50	7.73	7.73
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2342	11/20/2024 14:33:05	11/20/2024	2:33:05	7.73	7.73
2343	11/20/2024 14:33:10	11/20/2024	2:33:10	7.73	7.73
2344	11/20/2024 14:33:15	11/20/2024	2:33:15	7.73	7.73
2345	11/20/2024 14:33:20	11/20/2024	2:33:20	7.73	7.73
2346	11/20/2024 14:33:25	11/20/2024	2:33:25	7.73	7.73
2347	11/20/2024 14:33:30	11/20/2024	2:33:30	7.73	7.73
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2357	11/20/2024 14:34:20	11/20/2024	2:34:20	7.73	7.73
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2369	11/20/2024 14:35:20	11/20/2024	2:35:20	7.73	7.73
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2397	11/20/2024 14:37:40	11/20/2024	2:37:40	7.73	7.72
2398	11/20/2024 14:37:45	11/20/2024	2:37:45	7.72	7.72

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2401	11/20/2024 14:38:00	11/20/2024	2:38:00	7.72	7.72
2402	11/20/2024 14:38:05	11/20/2024	2:38:05	7.72	7.72
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2405	11/20/2024 14:38:20	11/20/2024	2:38:20	7.72	7.72
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2417	11/20/2024 14:39:20	11/20/2024	2:39:20	7.72	7.72
2418	11/20/2024 14:39:25	11/20/2024	2:39:25	7.72	7.72
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2430	11/20/2024 14:40:25	11/20/2024	2:40:25	7.72	7.72
2431	11/20/2024 14:40:30	11/20/2024	2:40:30	7.72	7.72
2432	11/20/2024 14:40:35	11/20/2024	2:40:35	7.72	7.72
2433	11/20/2024 14:40:40	11/20/2024	2:40:40	7.72	7.72
2434	11/20/2024 14:40:45	11/20/2024	2:40:45	7.72	7.72
2435	11/20/2024 14:40:50	11/20/2024	2:40:50	7.72	7.72
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2439	11/20/2024 14:41:10	11/20/2024	2:41:10	7.72	7.72
2440	11/20/2024 14:41:15	11/20/2024	2:41:15	7.72	7.72
2441	11/20/2024 14:41:20	11/20/2024	2:41:20	7.72	7.72
2442	11/20/2024 14:41:25	11/20/2024	2:41:25	7.72	7.72
2443	11/20/2024 14:41:30	11/20/2024	2:41:30	7.72	7.72
2444	11/20/2024 14:41:35	11/20/2024	2:41:35	7.72	7.72
2445	11/20/2024 14:41:40	11/20/2024	2:41:40	7.72	7.72
2446	11/20/2024 14:41:45	11/20/2024	2:41:45	7.72	7.72
2447	11/20/2024 14:41:50	11/20/2024	2:41:50	7.72	7.72

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2453	11/20/2024 14:42:20	11/20/2024	2:42:20	7.72	7.72
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2458	11/20/2024 14:42:45	11/20/2024	2:42:45	7.72	7.72
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2464	11/20/2024 14:43:15	11/20/2024	2:43:15	7.72	7.72
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2466	11/20/2024 14:43:25	11/20/2024	2:43:25	7.72	7.72
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2469	11/20/2024 14:43:40	11/20/2024	2:43:40	7.72	7.72
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2471	11/20/2024 14:43:50	11/20/2024	2:43:50	7.72	7.72
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2500	11/20/2024 14:46:15	11/20/2024	2:46:15	7.72	7.72
2501	11/20/2024 14:46:20	11/20/2024	2:46:20	7.72	7.72
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2506	11/20/2024 14:46:45	11/20/2024	2:46:45	7.72	7.72
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2513	11/20/2024 14:47:20	11/20/2024	2:47:20	7.72	7.71
2514	11/20/2024 14:47:25	11/20/2024	2:47:25	7.72	7.71
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2529	11/20/2024 14:48:40	11/20/2024	2:48:40	7.72	7.71
2530	11/20/2024 14:48:45	11/20/2024	2:48:45	7.72	7.71
2531	11/20/2024 14:48:50	11/20/2024	2:48:50	7.72	7.71
2532	11/20/2024 14:48:55	11/20/2024	2:48:55	7.72	7.71
2533	11/20/2024 14:49:00	11/20/2024	2:49:00	7.72	7.71
2534	11/20/2024 14:49:05	11/20/2024	2:49:05	7.72	7.71
2535	11/20/2024 14:49:10	11/20/2024	2:49:10	7.72	7.71
2536	11/20/2024 14:49:15	11/20/2024	2:49:15	7.72	7.71
2537	11/20/2024 14:49:20	11/20/2024	2:49:20	7.72	7.71
2538	11/20/2024 14:49:25	11/20/2024	2:49:25	7.72	7.71
2539	11/20/2024 14:49:30	11/20/2024	2:49:30	7.72	7.71
2540	11/20/2024 14:49:35	11/20/2024	2:49:35	7.72	7.71
2541	11/20/2024 14:49:40	11/20/2024	2:49:40	7.72	7.71
2542	11/20/2024 14:49:45	11/20/2024	2:49:45	7.72	7.71
2543	11/20/2024 14:49:50	11/20/2024	2:49:50	7.72	7.71
2544	11/20/2024 14:49:55	11/20/2024	2:49:55	7.72	7.71
2545	11/20/2024 14:50:00	11/20/2024	2:50:00	7.72	7.71

2546	11/20/2024 14:50:05	11/20/2024	2:50:05	7.72	7.71
2547	11/20/2024 14:50:10	11/20/2024	2:50:10	7.72	7.71
2548	11/20/2024 14:50:15	11/20/2024	2:50:15	7.72	7.71
2549	11/20/2024 14:50:20	11/20/2024	2:50:20	7.72	7.71
2550	11/20/2024 14:50:25	11/20/2024	2:50:25	7.72	7.71
2551	11/20/2024 14:50:30	11/20/2024	2:50:30	7.72	7.71
2552	11/20/2024 14:50:35	11/20/2024	2:50:35	7.72	7.71
2553	11/20/2024 14:50:40	11/20/2024	2:50:40	7.72	7.71
2554	11/20/2024 14:50:45	11/20/2024	2:50:45	7.72	7.71
2555	11/20/2024 14:50:50	11/20/2024	2:50:50	7.72	7.71
2556	11/20/2024 14:50:55	11/20/2024	2:50:55	7.73	7.71
2557	11/20/2024 14:51:00	11/20/2024	2:51:00	7.76	7.71
2558	11/20/2024 14:51:05	11/20/2024	2:51:05	7.71	7.71
2559	11/20/2024 14:51:10	11/20/2024	2:51:10	7.71	7.71

2. Bioassay 30-Sec Exposure

2.1 Bioassay 30-Sec Exposure Test Data

Client	Anchor QEA
Project	Project Macoma
Project Number	PG1931
Project Manager	M. Knowlen & J. Word
Date Sample Received	12/2/2024
Test type	3-Hour Acute Toxicity with Coho Salmon
Matrix	Liquid
Test Acceptability	≥ 90% average survival of control
Test Start Date	12/05/24
Test Species	<i>Oncorhynchus kisutch</i>
Organism Batch	LEFH111524
Organism Acquired	11/15/2024
Organism Acclimation	20
Organism Age	Juvenile (hatched 1/8/24)
Test Protocol	Adapted from EPA OPPTS (EPA 1996)
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Test Location	Next to Bath 1
Water Description	filtered sea water
Organisms per Replicate	10
Test Chamber Size	167 L
Exposure Volume	3.8 L sample in 146 L (150 L Volume Total)
Test Dissolved Oxygen	>6.5
Test Temperature	12 ± 2
Salinity	
Test pH	

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	6.5	
Temp	9.5	14.4
Salinity		
pH		

Exposure START TIME/INIT: 1059⁰⁰ Jw/Ar/RB
 Exposure END TIME/INIT: 1100 Jw/Ar/RB
 Test END TIME/INIT (3 hr after exposure end time): 1400 Jw/Ar/RB

Test END TIME/INIT (3 hr after exposure end time):

CLIENT SAMPLE ID	LAB ID
NFCB9.8	P241202.01

Concentrations	
1	100%
2	.
3	.
4	.
5	.
6	.
7	.
8	.
9	.

Treatment	Rep	Chamber
100%	1	4
100%	2	2
100%	3	3
100%	H	1
.	1	
.	2	
.	3	
.	4	
.	5	
.	1	
.	2	
.	3	
.	4	
.	5	
.	1	
.	2	
.	3	
.	4	
.	5	
.	1	
.	2	
.	3	
.	4	
.	5	
.	1	
.	2	

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/5/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/5/24 12/2/24	SPECIES	<i>Oncorhynchus kisutch</i>
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

	Sample + Discharge Exposure	DO (mg/L)	TEMP (°C)	Salinity (ppt)	pH
		>6.5	10 - 14	-	-
Sample Stock	NFCB9.8 (30 Sec)	8.2	7.2	38	10.0
Stock					
Date 12/5/24					
Time 1030					
Tech <i>AK</i>					
Meter # 7					
Test Initiation (0 hrs)	NFCB9.8 (30 Sec)	7.0	11.2	30	7.6
Rep 1					
Date 12/5/24					
Time 1024					
Tech <i>JW</i>					
Meter # 7					
Test Termination (3 hrs)	NFCB9.8 (30 Sec)	7.0	11.2	31	7.7
Rep 1					
Date 12/5/24					
Time 1402					
Tech <i>AR</i>					
Meter # 8					

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	
PROJECT	Project Macoma	TEST START DATE	12/5/24	PROJECT MANAGER	
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/5/24	SPECIES	
LAB SAMPLE ID	P241202.01	MATRIX		Liquid	NO. OF ORGANISMS

Adapted from EPA OPPTS (EPA 1996)
M. Knowlton & J. Ward
Oncorhynchus kisutch
10

Abbreviation Key:		Observations	
N = Normal			
NB = No Body			
F = Flashing (scratching on bottom/sides to relieve itching)			
LOE = Loss of equilibrium or erratic behavior			
A = Avoidance (moving from one side of chamber to other)			
Sample + Discharge Exposure Period	Tech:	Video Analysis Date:	Video Analysis Time:
	ML	12/23/24	1345
			Rep 1 (WQ Chamber)
Obs Intervals	Time On Video Recording	Notes	
During Sample Dispersal (1 min ± 5 sec)	2:22 - 4:13	Normal behavior, fish alert, active. Hugging sides of chamber, opposite end of spigot. Most fish cluster around pH Hobo (bottom).	
During Exposure Period	4:13 - 4:43	Two fish swim freely around chamber and under spigot. Remaining fish clustered around bottom pH Hobo. All fish alert, no errant behavior/movement. Fish kicks on at 4:49.	
Obs Intervals: After Exposure to Sample		Notes	
30 Sec	5:13	Normal behavior, alert, active	
1 Min	5:43	Normal behavior, alert, active.	
5 Min	9:43	Normal behavior, alert, active	
15 Min	19:43	Normal behavior, alert, active. Fish are more dispersed in chamber no longer clustered together. At 20:13 one fish swims to surface then down	
30 Min	34:43	Normal behavior, alert, active	
1 Hr	1:01:43	Normal behavior, alert, active	
2 Hr	2:04:43	Normal behavior, alert, active	
3 Hr (end)	Number Alive, Number Dead: 104 0P	All fish alert, active, avoid capture at end of test	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills—open gill plate and check for opacity, visible signs of damage

Eyes—check for discoloration, visible signs of damage

Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/5/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/5/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:		Observations	
N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)		Video Analysis Date: 12/23/24 Video Analysis Time: 1330 Tech: MK Obs Intervals: _____ Time On Video Recording: _____	Rep 2 Notes
NFCB9.8 (30 Sec)	During Sample Dispersal (1 min 45 sec) Stir.	2:32 - 4:23	Alert, active, fish dispersed throughout chamber. At 3:07 one fish swims near 'spigot', unphased. Same at 3:14 - fish visible under brine plume, acting normal. At 3:30 all fish seem more active, freely swimming around. Nothing erratic.
	During Exposure Period	4:23 - 4:53	Normal behavior. Alert, active. Freely swimming at upper & lower portions of chamber. FSW kicks on at 5:01
	Obs Intervals: After Exposure to Sample		Notes
	30 Sec	5:23	Normal behavior. Fish alert, active.
	1 Min	5:53	Normal behavior. Fish alert, active.
	5 Min	9:53	Normal behavior. Fish alert, active.
	15 Min	19:53	Normal behavior, Fish alert, active. At 17:09 one fish swims to surface and dives down to bottom. No erratic movement.
	30 Min	34:53	Normal behavior. Fish alert, active. Two fish swim to surface. All fish seem well dispersed in chamber at differing depths. No erratic movement.
	1 Hr	1:04:53	Normal behavior, Fish alert & active
	2 Hr	2:04:53	Normal behavior. Fish alert, active.
3 Hr (end)	Number Alive, Number Dead: 104 00	All fish alert & active, avoid capture at end of test.	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills--open gill plate and check for opacity, visible signs of damage

Eyes--check for discoloration, visible signs of damage

Body--check for obvious signs of damage, lesions, etc

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1998)
PROJECT	Project Macoma	TEST START DATE	12/5/24	PROJECT MANAGER	M. Knowlton & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/5/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key: N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)	Observations		
	Video Analysis Date:	12/23/24	
	Video Analysis Time:	1355	
	Tech:	MW	
Sample + Discharge Exposure Period	Obs Intervals	Time On Video Recording	
		Notes	
	During Sample Dispersal (1 min 35-sec) 51 sec	2:27 - 4:18	Normal behavior, alert, active. One fish below sprigot & visible brown plume @ 2:38, unphased. No erratic movement.
	During Exposure Period	4:18 - 4:48	Normal behavior, alert, active. FSW kicks on at 5:38
	Obs Intervals: After Exposure to Sample		Notes
	30 Sec	5:18	Normal behavior, alert, active. No erratic movement.
	1 Min	5:48	Normal behavior, alert, active. No erratic movement.
NFCB9.8 (30 Sec)	5 Min	9:48	Normal behavior, alert, active. No erratic movement.
	15 Min	19:48	Normal behavior, alert, active. Fish well dispersed at diff. depths.
	30 Min	34:48	Normal behavior, alert, active.
	1 Hr	1:04:48	Normal behavior, alert, active.
	2 Hr	2:04:48	Normal behavior, alert, active.
	3 Hr (end)	Number Alive, Number Dead: 10A 0D	All fish alert, active, avoid capture.

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills—open gill plate and check for opacity, visible signs of damage

Eyes—check for discoloration, visible signs of damage

Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/5/24	PROJECT MANAGER	M. Knowlen & J. Ward
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/5/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key: N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)	Observations	
	Video Analysis Date:	12/23/24
	Video Analysis Time:	1410
	Tech:	MC

Sample + Discharge Exposure Period	Obs Intervals	Time On Video Recording	Notes
NFCB9.8 (30 Sec)	During Sample Dispersal (1 min 45 sec) 51 sec	2:20 - 4:11	Fish normal, alert, active. At 2:30 m video one fish swims under spigot w/ visible brine plume above, Darts away towards group at opposite end of chamber. At 3:39 another fish casually swims under brine plume, unphased. At 3:50 two diff. fish swim under spigot unphased.
	During Exposure Period	4:11 - 4:41	Fish freely swimming about chamber $\frac{1}{2}$ near / under spigot. Alert, active. No erratic movement. At 4:47 PSW kicks on - fish react to water force and swim to opposite end of chamber
	Immediately After Exposure Period (Fish Pulled & Examined)		
		Number Alive, Number Dead:	
		10 A 0D	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
 Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
 Handling chamber additional inspection:
 Gills--open gill plate and check for opacity, visible signs of damage
 Eyes--check for discoloration, visible signs of damage
 Body--check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	NFCB9.8
LAB SAMPLE ID	P241202.01
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/5/24
TEST END DATE	12/2/24 12/5/24
MATRIX	Liquid
SPECIES	Oncorhynchus kisutch
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

REP 1 (WQ Chamber)	
Date/Time:	12/5/24 1407
Technician:	JW/AR

	Length (mm)	Weight (g)
1	84	7.38
2	73	4.37
3	86	8.79
4	81	7.56
5	83	7.25
6	86	8.37
7	89	8.31
8	78	5.81
9	84	7.10
10	91	9.54

Average Length (mm)	85.5
Average Weight (g)	7.948

Comments:

Fish (1) normal gills, red. Eyes normal, not cloudy,
 (2-6) "
 (7) normal gills, normal eyes, darker complexion; on
 (8-10) normal

REP 2	
Date/Time:	1429 12/5/24
Technician:	JW/AR

	Length (mm)	Weight (g)
1	85	7.69
2	87	8.45
3	84	7.47
4	82	7.31
5	89	8.57
6	78	6.67
7	81	7.19
8	88	8.36
9	78	6.73
10	83	7.61

Average Length (mm)	83.5
Average Weight (g)	7.605

Comments:

Fish (1) gills normal, red. Eyes normal, not cloudy,
 (2-10) "
 Fish 7: darker complexion

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	NFCB9.8
LAB SAMPLE ID	P241202.01
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/5/24
TEST END DATE	12/2/24
MATRIX	Liquid
SPECIES	Oncorhynchus kisutch
NO. OF ORGANISMS	10

12/5/24

3-Hour Acute Toxicity with Coho Salmon

REP 3
Date/Time: 12/5/24 1420
Technician: Jw/AR

	Length (mm)	Weight (g)
1	87	9.88
2	80	7.14
3	87	7.99
4	82	6.96
5	64	3.90
6	84	7.39
7	78	5.48
8	86	7.65
9	85	8.83
10	85	7.69

Average Length (mm)	81.8
Average Weight (g)	7.29

Comments:

Fish (1) gills normal, red. Eyes normal, not cloudy
 (2-10) "

Handling Chamber
Date/Time: 12/5/24 1110
Technician: Jw/AR

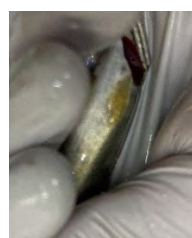
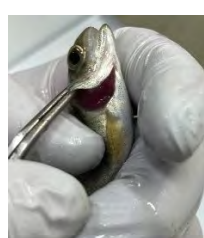
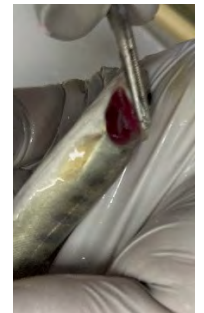
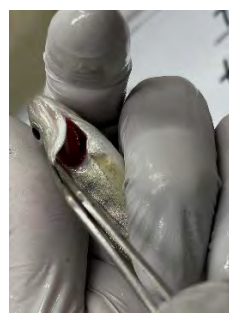
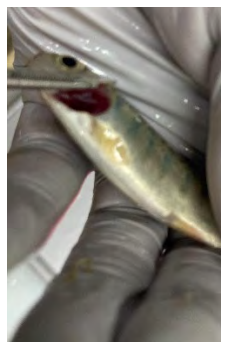
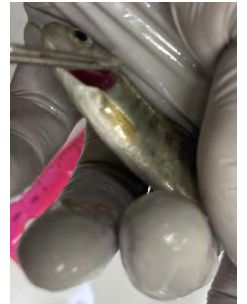
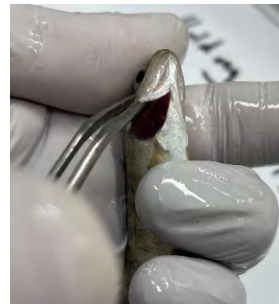
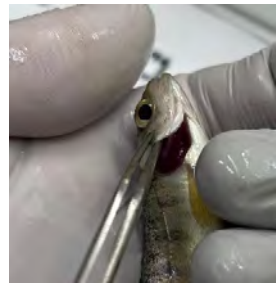
	Length (mm)	Weight (g)
1	87	8.17
2	82	7.60
3	89	8.19
4	81	7.09
5	85	7.72
6	86	9.34
7	84	7.83
8	85	7.87
9	85	8.01
10	76	5.36

Average Length (mm)	83.9
Average Weight (g)	7.65

Comments:

Fish (1): gills normal, red. Eyes normal, not cloudy
 (2-10): gills normal, red. Eyes normal, not cloudy

2.2 Bioassay 30-Sec Exposure Test Organism Photos





2.3 Bioassay 30-Sec Exposure pH HOBO Data

HOBO DATA 30-SEC EXPOSURE

#	Date-Time (PST)	Date-Time	(PST)	Bottom HOBO pH (pH)
35	12/05/2024 10:57:00	12/5/2024	10:57:00 AM	7.67
36	12/05/2024 10:58:00	12/5/2024	10:58:00 AM	7.68
37	12/05/2024 10:59:00	12/5/2024	10:59:00 AM	7.97
38	12/05/2024 11:00:00	12/5/2024	11:00:00 AM	8.04
39	12/05/2024 11:01:00	12/5/2024	11:01:00 AM	8.02
40	12/05/2024 11:02:00	12/5/2024	11:02:00 AM	8.00
41	12/05/2024 11:03:00	12/5/2024	11:03:00 AM	7.98
42	12/05/2024 11:04:00	12/5/2024	11:04:00 AM	7.97
43	12/05/2024 11:05:00	12/5/2024	11:05:00 AM	7.95
44	12/05/2024 11:06:00	12/5/2024	11:06:00 AM	7.95
45	12/05/2024 11:07:00	12/5/2024	11:07:00 AM	7.95
46	12/05/2024 11:08:00	12/5/2024	11:08:00 AM	7.94
47	12/05/2024 11:09:00	12/5/2024	11:09:00 AM	7.93
48	12/05/2024 11:10:00	12/5/2024	11:10:00 AM	7.93
49	12/05/2024 11:11:00	12/5/2024	11:11:00 AM	7.93
50	12/05/2024 11:12:00	12/5/2024	11:12:00 AM	7.92
51	12/05/2024 11:13:00	12/5/2024	11:13:00 AM	7.92
52	12/05/2024 11:14:00	12/5/2024	11:14:00 AM	7.91
53	12/05/2024 11:15:00	12/5/2024	11:15:00 AM	7.91
54	12/05/2024 11:16:00	12/5/2024	11:16:00 AM	7.90
55	12/05/2024 11:17:00	12/5/2024	11:17:00 AM	7.90
56	12/05/2024 11:18:00	12/5/2024	11:18:00 AM	7.90
57	12/05/2024 11:19:00	12/5/2024	11:19:00 AM	7.89
58	12/05/2024 11:20:00	12/5/2024	11:20:00 AM	7.89
59	12/05/2024 11:21:00	12/5/2024	11:21:00 AM	7.88
60	12/05/2024 11:22:00	12/5/2024	11:22:00 AM	7.88
61	12/05/2024 11:23:00	12/5/2024	11:23:00 AM	7.88
62	12/05/2024 11:24:00	12/5/2024	11:24:00 AM	7.87
63	12/05/2024 11:25:00	12/5/2024	11:25:00 AM	7.87
64	12/05/2024 11:26:00	12/5/2024	11:26:00 AM	7.87
65	12/05/2024 11:27:00	12/5/2024	11:27:00 AM	7.86
66	12/05/2024 11:28:00	12/5/2024	11:28:00 AM	7.86
67	12/05/2024 11:29:00	12/5/2024	11:29:00 AM	7.86
68	12/05/2024 11:30:00	12/5/2024	11:30:00 AM	7.85
69	12/05/2024 11:31:00	12/5/2024	11:31:00 AM	7.85
70	12/05/2024 11:32:00	12/5/2024	11:32:00 AM	7.85
71	12/05/2024 11:33:00	12/5/2024	11:33:00 AM	7.84
72	12/05/2024 11:34:00	12/5/2024	11:34:00 AM	7.84
73	12/05/2024 11:35:00	12/5/2024	11:35:00 AM	7.84
74	12/05/2024 11:36:00	12/5/2024	11:36:00 AM	7.84
75	12/05/2024 11:37:00	12/5/2024	11:37:00 AM	7.83
76	12/05/2024 11:38:00	12/5/2024	11:38:00 AM	7.83
77	12/05/2024 11:39:00	12/5/2024	11:39:00 AM	7.83
78	12/05/2024 11:40:00	12/5/2024	11:40:00 AM	7.83

79	12/05/2024 11:41:00	12/5/2024	11:41:00 AM	7.82
80	12/05/2024 11:42:00	12/5/2024	11:42:00 AM	7.82
81	12/05/2024 11:43:00	12/5/2024	11:43:00 AM	7.82
82	12/05/2024 11:44:00	12/5/2024	11:44:00 AM	7.82
83	12/05/2024 11:45:00	12/5/2024	11:45:00 AM	7.81
84	12/05/2024 11:46:00	12/5/2024	11:46:00 AM	7.81
85	12/05/2024 11:47:00	12/5/2024	11:47:00 AM	7.81
86	12/05/2024 11:48:00	12/5/2024	11:48:00 AM	7.81
87	12/05/2024 11:49:00	12/5/2024	11:49:00 AM	7.80
88	12/05/2024 11:50:00	12/5/2024	11:50:00 AM	7.80
89	12/05/2024 11:51:00	12/5/2024	11:51:00 AM	7.80
90	12/05/2024 11:52:00	12/5/2024	11:52:00 AM	7.80
91	12/05/2024 11:53:00	12/5/2024	11:53:00 AM	7.80
92	12/05/2024 11:54:00	12/5/2024	11:54:00 AM	7.79
93	12/05/2024 11:55:00	12/5/2024	11:55:00 AM	7.79
94	12/05/2024 11:56:00	12/5/2024	11:56:00 AM	7.79
95	12/05/2024 11:57:00	12/5/2024	11:57:00 AM	7.79
96	12/05/2024 11:58:00	12/5/2024	11:58:00 AM	7.79
97	12/05/2024 11:59:00	12/5/2024	11:59:00 AM	7.79
98	12/05/2024 12:00:00	12/5/2024	12:00:00 PM	7.78
99	12/05/2024 12:01:00	12/5/2024	12:01:00 PM	7.78
100	12/05/2024 12:02:00	12/5/2024	12:02:00 PM	7.78
101	12/05/2024 12:03:00	12/5/2024	12:03:00 PM	7.78
102	12/05/2024 12:04:00	12/5/2024	12:04:00 PM	7.78
103	12/05/2024 12:05:00	12/5/2024	12:05:00 PM	7.78
104	12/05/2024 12:06:00	12/5/2024	12:06:00 PM	7.77
105	12/05/2024 12:07:00	12/5/2024	12:07:00 PM	7.77
106	12/05/2024 12:08:00	12/5/2024	12:08:00 PM	7.77
107	12/05/2024 12:09:00	12/5/2024	12:09:00 PM	7.77
108	12/05/2024 12:10:00	12/5/2024	12:10:00 PM	7.77
109	12/05/2024 12:11:00	12/5/2024	12:11:00 PM	7.77
110	12/05/2024 12:12:00	12/5/2024	12:12:00 PM	7.77
111	12/05/2024 12:13:00	12/5/2024	12:13:00 PM	7.76
112	12/05/2024 12:14:00	12/5/2024	12:14:00 PM	7.76
113	12/05/2024 12:15:00	12/5/2024	12:15:00 PM	7.76
114	12/05/2024 12:16:00	12/5/2024	12:16:00 PM	7.76
115	12/05/2024 12:17:00	12/5/2024	12:17:00 PM	7.76
116	12/05/2024 12:18:00	12/5/2024	12:18:00 PM	7.76
117	12/05/2024 12:19:00	12/5/2024	12:19:00 PM	7.74
118	12/05/2024 12:20:00	12/5/2024	12:20:00 PM	7.75
119	12/05/2024 12:21:00	12/5/2024	12:21:00 PM	7.75
120	12/05/2024 12:22:00	12/5/2024	12:22:00 PM	7.75
121	12/05/2024 12:23:00	12/5/2024	12:23:00 PM	7.73
122	12/05/2024 12:24:00	12/5/2024	12:24:00 PM	7.73
123	12/05/2024 12:25:00	12/5/2024	12:25:00 PM	7.74
124	12/05/2024 12:26:00	12/5/2024	12:26:00 PM	7.75
125	12/05/2024 12:27:00	12/5/2024	12:27:00 PM	7.74

126	12/05/2024 12:28:00	12/5/2024	12:28:00 PM	7.74
127	12/05/2024 12:29:00	12/5/2024	12:29:00 PM	7.74
128	12/05/2024 12:30:00	12/5/2024	12:30:00 PM	7.74
129	12/05/2024 12:31:00	12/5/2024	12:31:00 PM	7.74
130	12/05/2024 12:32:00	12/5/2024	12:32:00 PM	7.74
131	12/05/2024 12:33:00	12/5/2024	12:33:00 PM	7.74
132	12/05/2024 12:34:00	12/5/2024	12:34:00 PM	7.74
133	12/05/2024 12:35:00	12/5/2024	12:35:00 PM	7.74
134	12/05/2024 12:36:00	12/5/2024	12:36:00 PM	7.74
135	12/05/2024 12:37:00	12/5/2024	12:37:00 PM	7.74
136	12/05/2024 12:38:00	12/5/2024	12:38:00 PM	7.74
137	12/05/2024 12:39:00	12/5/2024	12:39:00 PM	7.74
138	12/05/2024 12:40:00	12/5/2024	12:40:00 PM	7.74
139	12/05/2024 12:41:00	12/5/2024	12:41:00 PM	7.73
140	12/05/2024 12:42:00	12/5/2024	12:42:00 PM	7.73
141	12/05/2024 12:43:00	12/5/2024	12:43:00 PM	7.73
142	12/05/2024 12:44:00	12/5/2024	12:44:00 PM	7.73
143	12/05/2024 12:45:00	12/5/2024	12:45:00 PM	7.73
144	12/05/2024 12:46:00	12/5/2024	12:46:00 PM	7.73
145	12/05/2024 12:47:00	12/5/2024	12:47:00 PM	7.73
146	12/05/2024 12:48:00	12/5/2024	12:48:00 PM	7.73
147	12/05/2024 12:49:00	12/5/2024	12:49:00 PM	7.73
148	12/05/2024 12:50:00	12/5/2024	12:50:00 PM	7.73
149	12/05/2024 12:51:00	12/5/2024	12:51:00 PM	7.73
150	12/05/2024 12:52:00	12/5/2024	12:52:00 PM	7.73
151	12/05/2024 12:53:00	12/5/2024	12:53:00 PM	7.73
152	12/05/2024 12:54:00	12/5/2024	12:54:00 PM	7.73
153	12/05/2024 12:55:00	12/5/2024	12:55:00 PM	7.73
154	12/05/2024 12:56:00	12/5/2024	12:56:00 PM	7.73
155	12/05/2024 12:57:00	12/5/2024	12:57:00 PM	7.73
156	12/05/2024 12:58:00	12/5/2024	12:58:00 PM	7.72
157	12/05/2024 12:59:00	12/5/2024	12:59:00 PM	7.72
158	12/05/2024 13:00:00	12/5/2024	1:00:00 PM	7.72
159	12/05/2024 13:01:00	12/5/2024	1:01:00 PM	7.72
160	12/05/2024 13:02:00	12/5/2024	1:02:00 PM	7.72
161	12/05/2024 13:03:00	12/5/2024	1:03:00 PM	7.72
162	12/05/2024 13:04:00	12/5/2024	1:04:00 PM	7.72
163	12/05/2024 13:05:00	12/5/2024	1:05:00 PM	7.72
164	12/05/2024 13:06:00	12/5/2024	1:06:00 PM	7.72
165	12/05/2024 13:07:00	12/5/2024	1:07:00 PM	7.72
166	12/05/2024 13:08:00	12/5/2024	1:08:00 PM	7.72
167	12/05/2024 13:09:00	12/5/2024	1:09:00 PM	7.72
168	12/05/2024 13:10:00	12/5/2024	1:10:00 PM	7.72
169	12/05/2024 13:11:00	12/5/2024	1:11:00 PM	7.72
170	12/05/2024 13:12:00	12/5/2024	1:12:00 PM	7.72
171	12/05/2024 13:13:00	12/5/2024	1:13:00 PM	7.72
172	12/05/2024 13:14:00	12/5/2024	1:14:00 PM	7.72

173	12/05/2024 13:15:00	12/5/2024	1:15:00 PM	7.72
174	12/05/2024 13:16:00	12/5/2024	1:16:00 PM	7.72
175	12/05/2024 13:17:00	12/5/2024	1:17:00 PM	7.72
176	12/05/2024 13:18:00	12/5/2024	1:18:00 PM	7.72
177	12/05/2024 13:19:00	12/5/2024	1:19:00 PM	7.72
178	12/05/2024 13:20:00	12/5/2024	1:20:00 PM	7.72
179	12/05/2024 13:21:00	12/5/2024	1:21:00 PM	7.72
180	12/05/2024 13:22:00	12/5/2024	1:22:00 PM	7.72
181	12/05/2024 13:23:00	12/5/2024	1:23:00 PM	7.72
182	12/05/2024 13:24:00	12/5/2024	1:24:00 PM	7.72
183	12/05/2024 13:25:00	12/5/2024	1:25:00 PM	7.72
184	12/05/2024 13:26:00	12/5/2024	1:26:00 PM	7.72
185	12/05/2024 13:27:00	12/5/2024	1:27:00 PM	7.72
186	12/05/2024 13:28:00	12/5/2024	1:28:00 PM	7.72
187	12/05/2024 13:29:00	12/5/2024	1:29:00 PM	7.72
188	12/05/2024 13:30:00	12/5/2024	1:30:00 PM	7.72
189	12/05/2024 13:31:00	12/5/2024	1:31:00 PM	7.72
190	12/05/2024 13:32:00	12/5/2024	1:32:00 PM	7.72
191	12/05/2024 13:33:00	12/5/2024	1:33:00 PM	7.72
192	12/05/2024 13:34:00	12/5/2024	1:34:00 PM	7.72
193	12/05/2024 13:35:00	12/5/2024	1:35:00 PM	7.72
194	12/05/2024 13:36:00	12/5/2024	1:36:00 PM	7.72
195	12/05/2024 13:37:00	12/5/2024	1:37:00 PM	7.72
196	12/05/2024 13:38:00	12/5/2024	1:38:00 PM	7.72
197	12/05/2024 13:39:00	12/5/2024	1:39:00 PM	7.72
198	12/05/2024 13:40:00	12/5/2024	1:40:00 PM	7.72
199	12/05/2024 13:41:00	12/5/2024	1:41:00 PM	7.72
200	12/05/2024 13:42:00	12/5/2024	1:42:00 PM	7.72
201	12/05/2024 13:43:00	12/5/2024	1:43:00 PM	7.72
202	12/05/2024 13:44:00	12/5/2024	1:44:00 PM	7.72
203	12/05/2024 13:45:00	12/5/2024	1:45:00 PM	7.72
204	12/05/2024 13:46:00	12/5/2024	1:46:00 PM	7.72
205	12/05/2024 13:47:00	12/5/2024	1:47:00 PM	7.72
206	12/05/2024 13:48:00	12/5/2024	1:48:00 PM	7.72
207	12/05/2024 13:49:00	12/5/2024	1:49:00 PM	7.72
208	12/05/2024 13:50:00	12/5/2024	1:50:00 PM	7.72
209	12/05/2024 13:51:00	12/5/2024	1:51:00 PM	7.72
210	12/05/2024 13:52:00	12/5/2024	1:52:00 PM	7.72
211	12/05/2024 13:53:00	12/5/2024	1:53:00 PM	7.72
212	12/05/2024 13:54:00	12/5/2024	1:54:00 PM	7.72
213	12/05/2024 13:55:00	12/5/2024	1:55:00 PM	7.72
214	12/05/2024 13:56:00	12/5/2024	1:56:00 PM	7.72
215	12/05/2024 13:57:00	12/5/2024	1:57:00 PM	7.72
216	12/05/2024 13:58:00	12/5/2024	1:58:00 PM	7.72
217	12/05/2024 13:59:00	12/5/2024	1:59:00 PM	7.72
218	12/05/2024 14:00:00	12/5/2024	2:00:00 PM	7.72

HOBO DATA 30-SEC EXPOSURE

#	Date-Time (PST)	Date-Time	(PST)	Bottom HOBO pH (pH)
35	12/05/2024 10:57:00	12/5/2024	10:57:00 AM	7.67
36	12/05/2024 10:58:00	12/5/2024	10:58:00 AM	7.68
37	12/05/2024 10:59:00	12/5/2024	10:59:00 AM	7.97
38	12/05/2024 11:00:00	12/5/2024	11:00:00 AM	8.04
39	12/05/2024 11:01:00	12/5/2024	11:01:00 AM	8.02
40	12/05/2024 11:02:00	12/5/2024	11:02:00 AM	8.00
41	12/05/2024 11:03:00	12/5/2024	11:03:00 AM	7.98
42	12/05/2024 11:04:00	12/5/2024	11:04:00 AM	7.97
43	12/05/2024 11:05:00	12/5/2024	11:05:00 AM	7.95
44	12/05/2024 11:06:00	12/5/2024	11:06:00 AM	7.95
45	12/05/2024 11:07:00	12/5/2024	11:07:00 AM	7.95
46	12/05/2024 11:08:00	12/5/2024	11:08:00 AM	7.94
47	12/05/2024 11:09:00	12/5/2024	11:09:00 AM	7.93
48	12/05/2024 11:10:00	12/5/2024	11:10:00 AM	7.93
49	12/05/2024 11:11:00	12/5/2024	11:11:00 AM	7.93
50	12/05/2024 11:12:00	12/5/2024	11:12:00 AM	7.92
51	12/05/2024 11:13:00	12/5/2024	11:13:00 AM	7.92
52	12/05/2024 11:14:00	12/5/2024	11:14:00 AM	7.91
53	12/05/2024 11:15:00	12/5/2024	11:15:00 AM	7.91
54	12/05/2024 11:16:00	12/5/2024	11:16:00 AM	7.90
55	12/05/2024 11:17:00	12/5/2024	11:17:00 AM	7.90
56	12/05/2024 11:18:00	12/5/2024	11:18:00 AM	7.90
57	12/05/2024 11:19:00	12/5/2024	11:19:00 AM	7.89
58	12/05/2024 11:20:00	12/5/2024	11:20:00 AM	7.89
59	12/05/2024 11:21:00	12/5/2024	11:21:00 AM	7.88
60	12/05/2024 11:22:00	12/5/2024	11:22:00 AM	7.88
61	12/05/2024 11:23:00	12/5/2024	11:23:00 AM	7.88
62	12/05/2024 11:24:00	12/5/2024	11:24:00 AM	7.87
63	12/05/2024 11:25:00	12/5/2024	11:25:00 AM	7.87
64	12/05/2024 11:26:00	12/5/2024	11:26:00 AM	7.87
65	12/05/2024 11:27:00	12/5/2024	11:27:00 AM	7.86
66	12/05/2024 11:28:00	12/5/2024	11:28:00 AM	7.86
67	12/05/2024 11:29:00	12/5/2024	11:29:00 AM	7.86
68	12/05/2024 11:30:00	12/5/2024	11:30:00 AM	7.85
69	12/05/2024 11:31:00	12/5/2024	11:31:00 AM	7.85
70	12/05/2024 11:32:00	12/5/2024	11:32:00 AM	7.85
71	12/05/2024 11:33:00	12/5/2024	11:33:00 AM	7.84
72	12/05/2024 11:34:00	12/5/2024	11:34:00 AM	7.84
73	12/05/2024 11:35:00	12/5/2024	11:35:00 AM	7.84
74	12/05/2024 11:36:00	12/5/2024	11:36:00 AM	7.84
75	12/05/2024 11:37:00	12/5/2024	11:37:00 AM	7.83
76	12/05/2024 11:38:00	12/5/2024	11:38:00 AM	7.83
77	12/05/2024 11:39:00	12/5/2024	11:39:00 AM	7.83
78	12/05/2024 11:40:00	12/5/2024	11:40:00 AM	7.83

79	12/05/2024 11:41:00	12/5/2024	11:41:00 AM	7.82
80	12/05/2024 11:42:00	12/5/2024	11:42:00 AM	7.82
81	12/05/2024 11:43:00	12/5/2024	11:43:00 AM	7.82
82	12/05/2024 11:44:00	12/5/2024	11:44:00 AM	7.82
83	12/05/2024 11:45:00	12/5/2024	11:45:00 AM	7.81
84	12/05/2024 11:46:00	12/5/2024	11:46:00 AM	7.81
85	12/05/2024 11:47:00	12/5/2024	11:47:00 AM	7.81
86	12/05/2024 11:48:00	12/5/2024	11:48:00 AM	7.81
87	12/05/2024 11:49:00	12/5/2024	11:49:00 AM	7.80
88	12/05/2024 11:50:00	12/5/2024	11:50:00 AM	7.80
89	12/05/2024 11:51:00	12/5/2024	11:51:00 AM	7.80
90	12/05/2024 11:52:00	12/5/2024	11:52:00 AM	7.80
91	12/05/2024 11:53:00	12/5/2024	11:53:00 AM	7.80
92	12/05/2024 11:54:00	12/5/2024	11:54:00 AM	7.79
93	12/05/2024 11:55:00	12/5/2024	11:55:00 AM	7.79
94	12/05/2024 11:56:00	12/5/2024	11:56:00 AM	7.79
95	12/05/2024 11:57:00	12/5/2024	11:57:00 AM	7.79
96	12/05/2024 11:58:00	12/5/2024	11:58:00 AM	7.79
97	12/05/2024 11:59:00	12/5/2024	11:59:00 AM	7.79
98	12/05/2024 12:00:00	12/5/2024	12:00:00 PM	7.78
99	12/05/2024 12:01:00	12/5/2024	12:01:00 PM	7.78
100	12/05/2024 12:02:00	12/5/2024	12:02:00 PM	7.78
101	12/05/2024 12:03:00	12/5/2024	12:03:00 PM	7.78
102	12/05/2024 12:04:00	12/5/2024	12:04:00 PM	7.78
103	12/05/2024 12:05:00	12/5/2024	12:05:00 PM	7.78
104	12/05/2024 12:06:00	12/5/2024	12:06:00 PM	7.77
105	12/05/2024 12:07:00	12/5/2024	12:07:00 PM	7.77
106	12/05/2024 12:08:00	12/5/2024	12:08:00 PM	7.77
107	12/05/2024 12:09:00	12/5/2024	12:09:00 PM	7.77
108	12/05/2024 12:10:00	12/5/2024	12:10:00 PM	7.77
109	12/05/2024 12:11:00	12/5/2024	12:11:00 PM	7.77
110	12/05/2024 12:12:00	12/5/2024	12:12:00 PM	7.77
111	12/05/2024 12:13:00	12/5/2024	12:13:00 PM	7.76
112	12/05/2024 12:14:00	12/5/2024	12:14:00 PM	7.76
113	12/05/2024 12:15:00	12/5/2024	12:15:00 PM	7.76
114	12/05/2024 12:16:00	12/5/2024	12:16:00 PM	7.76
115	12/05/2024 12:17:00	12/5/2024	12:17:00 PM	7.76
116	12/05/2024 12:18:00	12/5/2024	12:18:00 PM	7.76
117	12/05/2024 12:19:00	12/5/2024	12:19:00 PM	7.74
118	12/05/2024 12:20:00	12/5/2024	12:20:00 PM	7.75
119	12/05/2024 12:21:00	12/5/2024	12:21:00 PM	7.75
120	12/05/2024 12:22:00	12/5/2024	12:22:00 PM	7.75
121	12/05/2024 12:23:00	12/5/2024	12:23:00 PM	7.73
122	12/05/2024 12:24:00	12/5/2024	12:24:00 PM	7.73
123	12/05/2024 12:25:00	12/5/2024	12:25:00 PM	7.74
124	12/05/2024 12:26:00	12/5/2024	12:26:00 PM	7.75
125	12/05/2024 12:27:00	12/5/2024	12:27:00 PM	7.74

126	12/05/2024 12:28:00	12/5/2024	12:28:00 PM	7.74
127	12/05/2024 12:29:00	12/5/2024	12:29:00 PM	7.74
128	12/05/2024 12:30:00	12/5/2024	12:30:00 PM	7.74
129	12/05/2024 12:31:00	12/5/2024	12:31:00 PM	7.74
130	12/05/2024 12:32:00	12/5/2024	12:32:00 PM	7.74
131	12/05/2024 12:33:00	12/5/2024	12:33:00 PM	7.74
132	12/05/2024 12:34:00	12/5/2024	12:34:00 PM	7.74
133	12/05/2024 12:35:00	12/5/2024	12:35:00 PM	7.74
134	12/05/2024 12:36:00	12/5/2024	12:36:00 PM	7.74
135	12/05/2024 12:37:00	12/5/2024	12:37:00 PM	7.74
136	12/05/2024 12:38:00	12/5/2024	12:38:00 PM	7.74
137	12/05/2024 12:39:00	12/5/2024	12:39:00 PM	7.74
138	12/05/2024 12:40:00	12/5/2024	12:40:00 PM	7.74
139	12/05/2024 12:41:00	12/5/2024	12:41:00 PM	7.73
140	12/05/2024 12:42:00	12/5/2024	12:42:00 PM	7.73
141	12/05/2024 12:43:00	12/5/2024	12:43:00 PM	7.73
142	12/05/2024 12:44:00	12/5/2024	12:44:00 PM	7.73
143	12/05/2024 12:45:00	12/5/2024	12:45:00 PM	7.73
144	12/05/2024 12:46:00	12/5/2024	12:46:00 PM	7.73
145	12/05/2024 12:47:00	12/5/2024	12:47:00 PM	7.73
146	12/05/2024 12:48:00	12/5/2024	12:48:00 PM	7.73
147	12/05/2024 12:49:00	12/5/2024	12:49:00 PM	7.73
148	12/05/2024 12:50:00	12/5/2024	12:50:00 PM	7.73
149	12/05/2024 12:51:00	12/5/2024	12:51:00 PM	7.73
150	12/05/2024 12:52:00	12/5/2024	12:52:00 PM	7.73
151	12/05/2024 12:53:00	12/5/2024	12:53:00 PM	7.73
152	12/05/2024 12:54:00	12/5/2024	12:54:00 PM	7.73
153	12/05/2024 12:55:00	12/5/2024	12:55:00 PM	7.73
154	12/05/2024 12:56:00	12/5/2024	12:56:00 PM	7.73
155	12/05/2024 12:57:00	12/5/2024	12:57:00 PM	7.73
156	12/05/2024 12:58:00	12/5/2024	12:58:00 PM	7.72
157	12/05/2024 12:59:00	12/5/2024	12:59:00 PM	7.72
158	12/05/2024 13:00:00	12/5/2024	1:00:00 PM	7.72
159	12/05/2024 13:01:00	12/5/2024	1:01:00 PM	7.72
160	12/05/2024 13:02:00	12/5/2024	1:02:00 PM	7.72
161	12/05/2024 13:03:00	12/5/2024	1:03:00 PM	7.72
162	12/05/2024 13:04:00	12/5/2024	1:04:00 PM	7.72
163	12/05/2024 13:05:00	12/5/2024	1:05:00 PM	7.72
164	12/05/2024 13:06:00	12/5/2024	1:06:00 PM	7.72
165	12/05/2024 13:07:00	12/5/2024	1:07:00 PM	7.72
166	12/05/2024 13:08:00	12/5/2024	1:08:00 PM	7.72
167	12/05/2024 13:09:00	12/5/2024	1:09:00 PM	7.72
168	12/05/2024 13:10:00	12/5/2024	1:10:00 PM	7.72
169	12/05/2024 13:11:00	12/5/2024	1:11:00 PM	7.72
170	12/05/2024 13:12:00	12/5/2024	1:12:00 PM	7.72
171	12/05/2024 13:13:00	12/5/2024	1:13:00 PM	7.72
172	12/05/2024 13:14:00	12/5/2024	1:14:00 PM	7.72

173	12/05/2024 13:15:00	12/5/2024	1:15:00 PM	7.72
174	12/05/2024 13:16:00	12/5/2024	1:16:00 PM	7.72
175	12/05/2024 13:17:00	12/5/2024	1:17:00 PM	7.72
176	12/05/2024 13:18:00	12/5/2024	1:18:00 PM	7.72
177	12/05/2024 13:19:00	12/5/2024	1:19:00 PM	7.72
178	12/05/2024 13:20:00	12/5/2024	1:20:00 PM	7.72
179	12/05/2024 13:21:00	12/5/2024	1:21:00 PM	7.72
180	12/05/2024 13:22:00	12/5/2024	1:22:00 PM	7.72
181	12/05/2024 13:23:00	12/5/2024	1:23:00 PM	7.72
182	12/05/2024 13:24:00	12/5/2024	1:24:00 PM	7.72
183	12/05/2024 13:25:00	12/5/2024	1:25:00 PM	7.72
184	12/05/2024 13:26:00	12/5/2024	1:26:00 PM	7.72
185	12/05/2024 13:27:00	12/5/2024	1:27:00 PM	7.72
186	12/05/2024 13:28:00	12/5/2024	1:28:00 PM	7.72
187	12/05/2024 13:29:00	12/5/2024	1:29:00 PM	7.72
188	12/05/2024 13:30:00	12/5/2024	1:30:00 PM	7.72
189	12/05/2024 13:31:00	12/5/2024	1:31:00 PM	7.72
190	12/05/2024 13:32:00	12/5/2024	1:32:00 PM	7.72
191	12/05/2024 13:33:00	12/5/2024	1:33:00 PM	7.72
192	12/05/2024 13:34:00	12/5/2024	1:34:00 PM	7.72
193	12/05/2024 13:35:00	12/5/2024	1:35:00 PM	7.72
194	12/05/2024 13:36:00	12/5/2024	1:36:00 PM	7.72
195	12/05/2024 13:37:00	12/5/2024	1:37:00 PM	7.72
196	12/05/2024 13:38:00	12/5/2024	1:38:00 PM	7.72
197	12/05/2024 13:39:00	12/5/2024	1:39:00 PM	7.72
198	12/05/2024 13:40:00	12/5/2024	1:40:00 PM	7.72
199	12/05/2024 13:41:00	12/5/2024	1:41:00 PM	7.72
200	12/05/2024 13:42:00	12/5/2024	1:42:00 PM	7.72
201	12/05/2024 13:43:00	12/5/2024	1:43:00 PM	7.72
202	12/05/2024 13:44:00	12/5/2024	1:44:00 PM	7.72
203	12/05/2024 13:45:00	12/5/2024	1:45:00 PM	7.72
204	12/05/2024 13:46:00	12/5/2024	1:46:00 PM	7.72
205	12/05/2024 13:47:00	12/5/2024	1:47:00 PM	7.72
206	12/05/2024 13:48:00	12/5/2024	1:48:00 PM	7.72
207	12/05/2024 13:49:00	12/5/2024	1:49:00 PM	7.72
208	12/05/2024 13:50:00	12/5/2024	1:50:00 PM	7.72
209	12/05/2024 13:51:00	12/5/2024	1:51:00 PM	7.72
210	12/05/2024 13:52:00	12/5/2024	1:52:00 PM	7.72
211	12/05/2024 13:53:00	12/5/2024	1:53:00 PM	7.72
212	12/05/2024 13:54:00	12/5/2024	1:54:00 PM	7.72
213	12/05/2024 13:55:00	12/5/2024	1:55:00 PM	7.72
214	12/05/2024 13:56:00	12/5/2024	1:56:00 PM	7.72
215	12/05/2024 13:57:00	12/5/2024	1:57:00 PM	7.72
216	12/05/2024 13:58:00	12/5/2024	1:58:00 PM	7.72
217	12/05/2024 13:59:00	12/5/2024	1:59:00 PM	7.72
218	12/05/2024 14:00:00	12/5/2024	2:00:00 PM	7.72

3. Bioassay 1-Min Exposure

3.1 Bioassay 1-Min Exposure Test Data

1 Min Exposure Test

Client	Anchor QEA
Project	Project Macoma
Project Number	PG1931
Project Manager	M. Knowlen & J. Word
Date Sample Received	12/2/2024
Test type	3-Hour Acute Toxicity with Coho Salmon
Matrix	Liquid
Test Acceptability	≥ 90% average survival of control
Test Start Date	12/04/24
Test Species	<i>Oncorhynchus kisutch</i>
Organism Batch	LEFH111524
Organism Acquired	11/15/2024
Organism Acclimation	19
Organism Age	Juvenile (hatched 1/8/24)
Test Protocol	Adapted from EPA OPPTS (EPA 1996)
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Test Location	Next to Bath 1
Water Description	filtered sea water
Organisms per Replicate	10
Test Chamber Size	167 L
Exposure Volume	3.8 L sample in 146 L (150 L Volume Total)
Test Dissolved Oxygen	>6.5
Test Temperature	12 ± 2
Salinity	
Test pH	

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	6.5	
Temp	9.5	14.4
Salinity		
pH		

Exposure START TIME/INIT: 1055 AR MK JW
 Exposure END TIME/INIT: 1056 AR MK JW
 Test END TIME/INIT (3 hr after exposure end time): 1356 JW AR

CLIENT SAMPLE ID	LAB ID
NFCB9.8	P241202.01

Concentrations	
1	100%
2	.
3	.
4	.
5	.
6	.
7	.
8	.
9	.

Treatment	Rep	Chamber
100%	1	4
100%	2	2
100%	3	3
100%	H	1
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/4/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/4/24	SPECIES	<i>Oncorhynchus kisutch</i>
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

	Sample + Discharge Exposure	DO (mg/L)	TEMP (°C)	Salinity (ppt)	pH
		>6.5	10 - 14	-	-
Sample Stock	NFCB9.8 (1 Min)	8.4	12.8	38	9.9
Stock					
Date 12/4/24					
Time 1010					
Tech AR					
Meter # 7					
Test Initiation (0 hrs)	NFCB9.8 (1 Min)	6.9	10.8	30	7.6
Rep 1					
Date 12/4/24					
Time 1044					
Tech AR					
Meter # 7					
① Test Termination (3 hrs)	NFCB9.8 (1 Min)				
Rep 1					
Date					
Time					
Tech					
Meter #					

① sampled not collected before breakdown AR 12/4/24

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	
PROJECT	Project Macoma	TEST START DATE	12/4/24	PROJECT MANAGER	
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/11/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX		Liquid	NO. OF ORGANISMS

Adapted from EPA OPPTS (EPA 1996)
M. Knowlton & J. Word
Oncorhynchus kisutch
10

Abbreviation Key:
N = Normal
NB = No Body
F = Flashing (scratching on bottom/sides to relieve itching)
LOE = Loss of equilibrium or erratic behavior
A = Avoidance (moving from one side of chamber to other)

Video Analysis Date:	12/23/24	Observations
Video Analysis Time:	1220	
Tech:	ME	
Obs Intervals	Time On Video Recording	

Rep 1 (WQ Chamber)

Sample + Discharge Exposure Period	Tech	Obs Intervals	Time On Video Recording	Notes	
NFCB9.8 (1 Min)		During Sample Dispersal (1 min - 15 sec)	15:34 - 17:25	Fish are active when dispersal begins, might be due to force of sample dispersal or reaction to person beginning dispersal. 2 groups of fish in chamber - one near dispersal outflow and one at opposite edge of chamber. At 15:53 all fish near the outflow are grouped w/ others on opposite side of chamber. At 16:15 one fish swims towards opposite end of chamber toward outflow and turns around. Same at 16:20. The fish are clustered around bottom ptt tube on opposite side of chamber during dispersal.	
		During Exposure Period	17:25 - 18:25		
			Obs Intervals: After Exposure to Sample		During exposure, fish appear normal not really active. No erratic behavior. Fish kicks on at 18:28. Not much activity from group except by one fish - again swims towards left side of chamber and quickly moves back to group.
		30 Sec	18:55	Normal behavior. Little action. No erratic movement.	
		1 Min	19:25	Normal behavior. Little action - No erratic movement.	
		5 Min	23:25	Normal behavior. Fish clustered under ptt tube. Some activity but No erratic movement.	
		15 Min	33:25	Normal behavior. Fish grouped together. Some minimal activity. No erratic movement.	
		30 Min	48:25	Normal behavior - Fish grouped together. No activity. No erratic movement.	
		1 Hr	1:18:25	Normal behavior. Fish grouped together (mostly), little activity. No erratic movement.	
		2 Hr	2:18:25	Normal behavior. Fish grouped together, little/no activity. No erratic movement.	
	3 Hr (end)	Number Alive, Number Dead:	10A 0D	Normal. Fish alert, active, avoiding capture. Difficult to net/remove.	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
Handling chamber additional inspection
Gills—open gill plate and check for opacity, visible signs of damage
Eyes—check for discoloration, visible signs of damage
Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor GEA	DATE RECEIVED	12/2/24	PROTOCOL	
PROJECT	Project Macoma	TEST START DATE	12/4/24	PROJECT MANAGER	
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/12/24	SPECIES	
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	

Adapted from EPA OPPTS (EPA 1996)
M. Knowlton & J. Word
Oncorhynchus kisutch
10

Abbreviation Key:
N = Normal
NB = No Body
F = Flashing (scratching on bottom/sides to relieve itching)
LOE = Loss of equilibrium or erratic behavior
A = Avoidance (moving from one side of chamber to other)

Observations		
Video Analysis Date:	12/23/24	Rep 2
Video Analysis Time:	1230	
Sample + Discharge Exposure Period	Tech: MK	
	Obs Intervals	Time On Video Recording

NFCB9.8 (1 Min)	During Sample Dispersal (1 min, 15 sec)	51 sec	15:41 - 17:32	<p>mostly grouped together.</p> <p>Fish appear alert, active. Some swimming near outfall / plume, no erratic movement. At 16:30 two swim under brine plume / outfall. Same at 16:40. Unphased. At 16:55 all fish are active by swimming around chamber. Not grouped together.</p>
	During Exposure Period		17:32 - 18:32	<p>Normal behavior. Alert, active. No erratic movement. Due to lighting, not obvious when FSW kicks on in video.</p>
	Obs Intervals: After Exposure to Sample			Notes
	30 Sec		18:52	Normal behavior, alert, active.
	1 Min		19:32	Normal behavior, alert, active. One fish swims to surface at 21:03, dives back to bottom.
	5 Min		23:32	Normal behavior, alert, active.
	15 Min		33:32	Normal behavior, alert, active. At 33:41 one fish swims to surface and the back to bottom.
	30 Min		48:32	Normal behavior, alert, active.
	1 Hr		1:18:32	Normal behavior, alert, active.
	2 Hr		2:18:32	Normal behavior, alert, active.
3 Hr (end)	Number Alive, Number Dead:	10A 0D		All fish alert, active. Avoid capture at end of test. Normal behavior.

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
Handling chamber additional inspection:
Gills—open gill plate and check for opacity, visible signs of damage
Eyes—check for discoloration, visible signs of damage
Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	
PROJECT	Project Macoma	TEST START DATE	12/4/24	PROJECT MANAGER	
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/4/24	SPECIES	M. Knowlton & J. Word
LAB SAMPLE ID	F241202.01	MATRIX	12/4/24	NO. OF ORGANISMS	Oncorhynchus kisutch

Adapted from EPA OPPTS (EPA 1996)
M. Knowlton & J. Word
Oncorhynchus kisutch
10

Abbreviation Key:
N = Normal
NB = No Body
F = Flashing (scratching on bottom/sides to relieve itching)
LOE = Loss of equilibrium or erratic behavior
A = Avoidance (moving from one side of chamber to other)

Observations	
Video Analysis Date:	12/23/24
Video Analysis Time:	1300
Tech:	MW
Obs Intervals	Time On Video Recording

Rep 3

Notes

NFCB9.8 (1 Min)	During Sample Dispersal (1 min-15 sec) 51 sec.	15:38-17:29	Fish grouped together at opposite end of chamber from outfall spigot prior to disperse. During disperse, break apart. Fish are primarily hugging chamber edge away from spigot. All fish alert, active.
	During Exposure Period	17:29-18:29	Fish are alert, staying in place. Little activity. FSW kicks on at 18:32. Fish break apart and move away from FSW line.
	Obs Intervals: After Exposure to Sample		Notes
	30 Sec	18:59	Fish clustered at opposite side of chamber from FSW line. Normal behavior, alert, active.
	1 Min	19:30	Fish remain clustered tightly. Normal behavior, alert
	5 Min	23:30	Normal behavior, alert, active
	15 Min	33:30	Normal behavior, alert, active
	30 Min	48:30	Normal behavior, alert, active
	1 Hr	1:18:30	Normal behavior, alert, active.
	2 Hr	2:18:30	Normal behavior, alert, active.
3 Hr (end)	Number Alive, Number Dead:	10A 0D	Normal, alert, active fish. Avoid capture at end of test.

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
Handling chamber additional inspection:
Gills—open gill plate and check for opacity, visible signs of damage
Eyes—check for discoloration, visible signs of damage
Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/4/24	PROJECT MANAGER	M. Knowlton & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/4/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

<p>Abbreviation Key:</p> <p>N = Normal</p> <p>NB = No Body</p> <p>F = Flashing (scratching on bottom/sides to relieve itching)</p> <p>LOE = Loss of equilibrium or erratic behavior</p> <p>A = Avoidance (moving from one side of chamber to other)</p>	Observations		
	Video Analysis Date:	12/23/24	
	Video Analysis Time:	13:15	
	Tech:	MW	
Sample + Discharge Exposure Period	Obs Intervals	Time On Video Recording	Handling Chamber
			Notes
NFCB9.8 (1 Min)	During Sample Dispersal (1 min 15 sec) 57 Sec.	15:32 - 17:23	Fish hugging sides of chamber. At 15:54 one fish darts across to other side, swimming under spigot / brine. All fish alert, little to no activity during dispersal. Seem uphased by spigot & brine as entering chamber.
	During Exposure Period	17:23 - 18:23	Fish begin moving about chamber, no longer hugging sides. Not clustered together. FSW kicks on at 18:00. Fish clustered at opposite end of chamber away from FSW line.
	Immediately After Exposure Period (Fish Pulled & Examined)		All fish alert, active, avoid capture at end of exposure period. Eyes not cloudy, good body color. Gills red.
		Number Alive, Number Dead:	
			10A 00

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills—open gill plate and check for opacity, visible signs of damage

Eyes—check for discoloration, visible signs of damage

Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	NFCB9.8
LAB SAMPLE ID	P241202.01
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/4/24
TEST END DATE	12/4/24
MATRIX	Liquid
SPECIES	<i>Oncorhynchus kisutch</i>
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

REP 1 (WQ Chamber)	
Date/Time:	12/4/24 1100
Technician:	JW/AR

	Length (mm)	Weight (g)
1	85	9.0
2	86	8.90
3	83	7.75
4	85	8.17
5	83	7.14
6	87	8.47
7	85	7.45
8	84	8.28
9	76	5.21
10	78	6.37

Average Length (mm)	83.7
Average Weight (g)	7.674

Comments:

Fish (1): gills normal, red. Eyes normal, not cloudy
 (2-10): "

REP 2	
Date/Time:	12/4/24 1432
Technician:	JW/AR

	Length (mm)	Weight (g)
1	80	6.63
2	82	6.83
3	78	6.17
4	81	7.32
5	85	8.14
6	77	5.96
7	80	8.57
8	81	8.54
9	79	7.94
10	79	7.38

Average Length (mm)	81.6
Average Weight (g)	7.153

Comments:

0 IE to 12/4/24
 Fish (1): gills normal, red, Eyes normal, not cloudy
 (2-10): "

0 IE.

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	NFCB9.8
LAB SAMPLE ID	P241202.01
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/4/24
TEST END DATE	12/4/24
MATRIX	Liquid
SPECIES	Oncorhynchus kisutch
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

① ~~REP 3~~ Handling Chamber

Date/Time: 12/4/24 1112
Technician: JW/AR

	Length (mm)	Weight (g)
1	85	7.98
2	81	6.87
3	80	7.57
4	81	6.58
5	82	8.10
6	83	7.94
7	79	6.77
8	88	8.41
9	88	8.69
10	86	7.18

Average Length (mm)	83.3
Average Weight (g)	7.61

Comments:

Fish (1): gills normal, red. Eyes normal, not cloudy
 (2-10): gills normal, red. Eyes normal, not cloudy
 Fish 1-4: gill photos taken last

① Handling Chamber REP 3

Date/Time: 12/4/24 1420
Technician: JW/AR

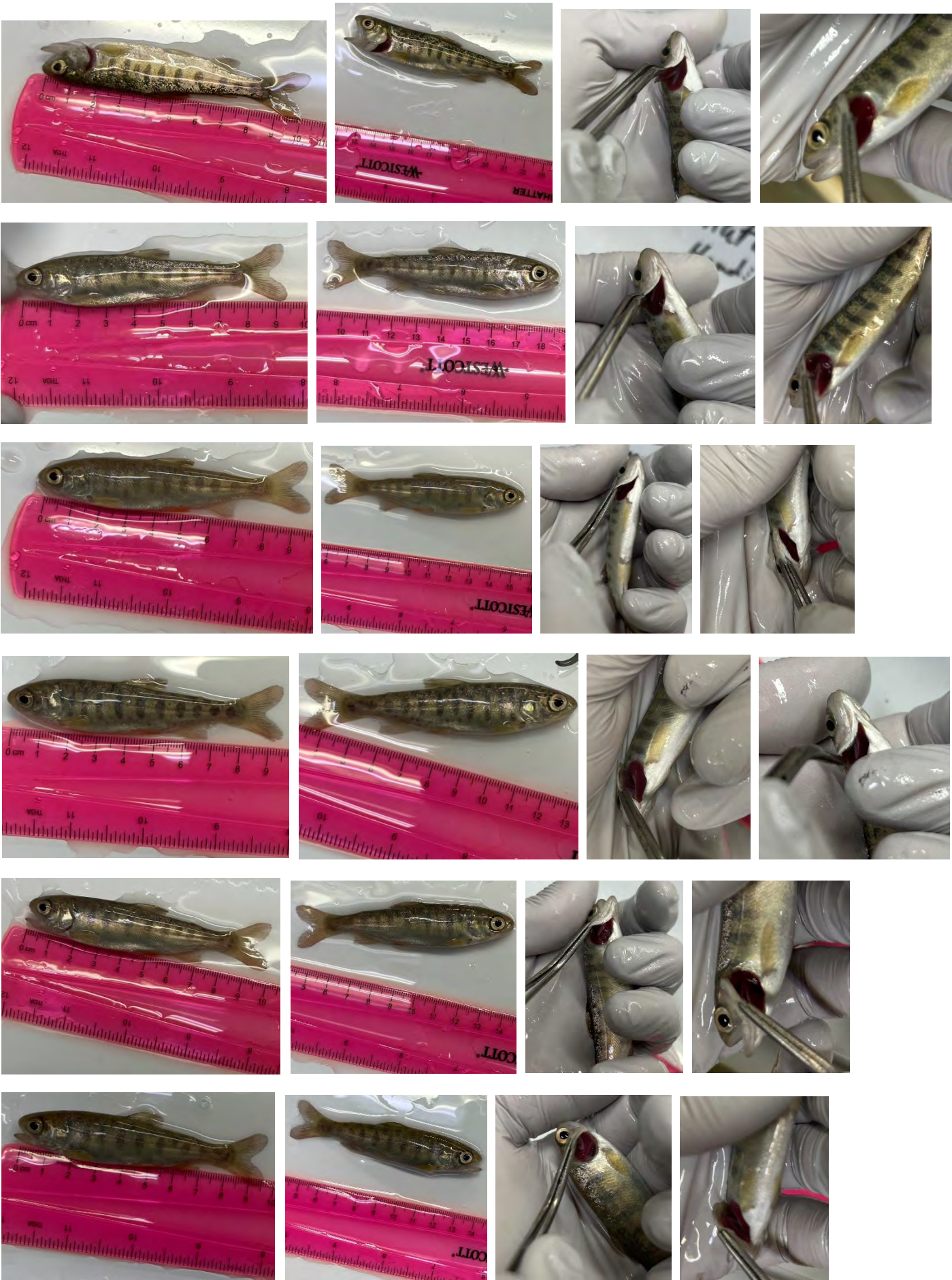
	Length (mm)	Weight (g)
1	77	6.71
2	75	6.91
3	85	7.43
4	80	7.07
5	82	7.64
6	76	5.75
7	75	5.89
8	78	5.83
9	74	4.77
10	78	5.16

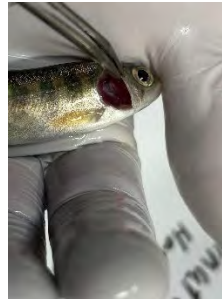
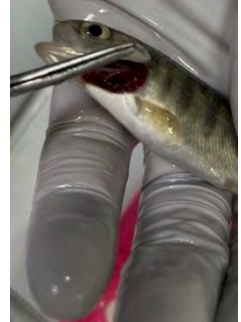
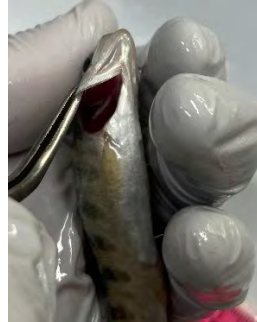
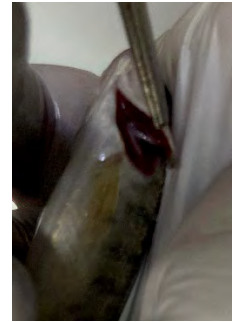
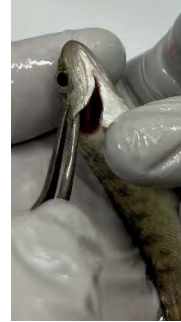
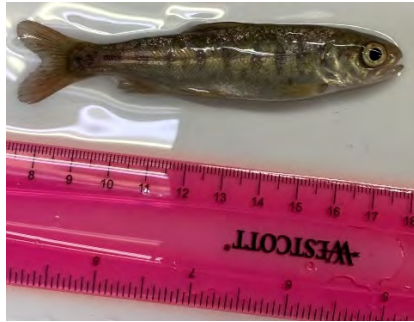
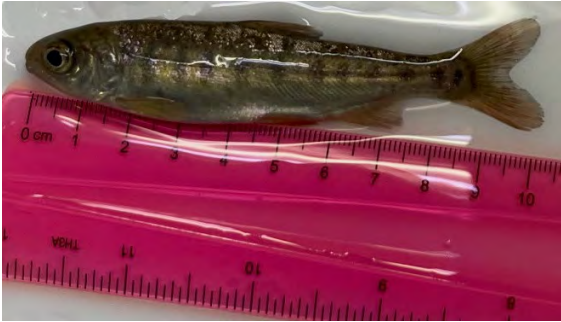
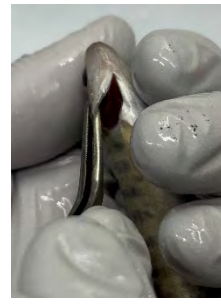
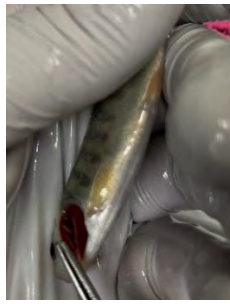
Average Length (mm)	78.0
Average Weight (g)	6.316

Comments:

① WC AR 12/4/24
 Fish (1): Eyes normal, not cloudy. gills normal, red.
 Fish (2-10): "

3.2 Bioassay 1-Min Exposure Test Organism Photos





3.3 Bioassay 1-Min Exposure pH HOBO Data

HOBO 1 MINUTE EXPOSURE

#	Date-Time (PST)	Date-Time	Time	Surface HOBO pH (pH)
75	12/04/2024 10:53:00	12/4/2024	10:53:00 AM	7.70
76	12/04/2024 10:54:00	12/4/2024	10:54:00 AM	7.70
77	12/04/2024 10:55:00	12/4/2024	10:55:00 AM	7.71
78	12/04/2024 10:56:00	12/4/2024	10:56:00 AM	7.94
79	12/04/2024 10:57:00	12/4/2024	10:57:00 AM	7.98
80	12/04/2024 10:58:00	12/4/2024	10:58:00 AM	7.98
81	12/04/2024 10:59:00	12/4/2024	10:59:00 AM	7.96
82	12/04/2024 11:00:00	12/4/2024	11:00:00 AM	7.96
83	12/04/2024 11:01:00	12/4/2024	11:01:00 AM	7.95
84	12/04/2024 11:02:00	12/4/2024	11:02:00 AM	7.94
85	12/04/2024 11:03:00	12/4/2024	11:03:00 AM	7.93
86	12/04/2024 11:04:00	12/4/2024	11:04:00 AM	7.92
87	12/04/2024 11:05:00	12/4/2024	11:05:00 AM	7.91
88	12/04/2024 11:06:00	12/4/2024	11:06:00 AM	7.90
89	12/04/2024 11:07:00	12/4/2024	11:07:00 AM	7.90
90	12/04/2024 11:08:00	12/4/2024	11:08:00 AM	7.89
91	12/04/2024 11:09:00	12/4/2024	11:09:00 AM	7.88
92	12/04/2024 11:10:00	12/4/2024	11:10:00 AM	7.87
93	12/04/2024 11:11:00	12/4/2024	11:11:00 AM	7.87
94	12/04/2024 11:12:00	12/4/2024	11:12:00 AM	7.86
95	12/04/2024 11:13:00	12/4/2024	11:13:00 AM	7.85
96	12/04/2024 11:14:00	12/4/2024	11:14:00 AM	7.84
97	12/04/2024 11:15:00	12/4/2024	11:15:00 AM	7.84
98	12/04/2024 11:16:00	12/4/2024	11:16:00 AM	7.83
99	12/04/2024 11:17:00	12/4/2024	11:17:00 AM	7.83
100	12/04/2024 11:18:00	12/4/2024	11:18:00 AM	7.82
101	12/04/2024 11:19:00	12/4/2024	11:19:00 AM	7.82
102	12/04/2024 11:20:00	12/4/2024	11:20:00 AM	7.81
103	12/04/2024 11:21:00	12/4/2024	11:21:00 AM	7.81
104	12/04/2024 11:22:00	12/4/2024	11:22:00 AM	7.80
105	12/04/2024 11:23:00	12/4/2024	11:23:00 AM	7.80
106	12/04/2024 11:24:00	12/4/2024	11:24:00 AM	7.79
107	12/04/2024 11:25:00	12/4/2024	11:25:00 AM	7.79
108	12/04/2024 11:26:00	12/4/2024	11:26:00 AM	7.79
109	12/04/2024 11:27:00	12/4/2024	11:27:00 AM	7.78
110	12/04/2024 11:28:00	12/4/2024	11:28:00 AM	7.78
111	12/04/2024 11:29:00	12/4/2024	11:29:00 AM	7.78
112	12/04/2024 11:30:00	12/4/2024	11:30:00 AM	7.77
113	12/04/2024 11:31:00	12/4/2024	11:31:00 AM	7.77
114	12/04/2024 11:32:00	12/4/2024	11:32:00 AM	7.77
115	12/04/2024 11:33:00	12/4/2024	11:33:00 AM	7.76
116	12/04/2024 11:34:00	12/4/2024	11:34:00 AM	7.76
117	12/04/2024 11:35:00	12/4/2024	11:35:00 AM	7.76
118	12/04/2024 11:36:00	12/4/2024	11:36:00 AM	7.76

119	12/04/2024 11:37:00	12/4/2024	11:37:00 AM	7.75
120	12/04/2024 11:38:00	12/4/2024	11:38:00 AM	7.75
121	12/04/2024 11:39:00	12/4/2024	11:39:00 AM	7.75
122	12/04/2024 11:40:00	12/4/2024	11:40:00 AM	7.75
123	12/04/2024 11:41:00	12/4/2024	11:41:00 AM	7.75
124	12/04/2024 11:42:00	12/4/2024	11:42:00 AM	7.74
125	12/04/2024 11:43:00	12/4/2024	11:43:00 AM	7.74
126	12/04/2024 11:44:00	12/4/2024	11:44:00 AM	7.75
127	12/04/2024 11:45:00	12/4/2024	11:45:00 AM	7.74
128	12/04/2024 11:46:00	12/4/2024	11:46:00 AM	7.74
129	12/04/2024 11:47:00	12/4/2024	11:47:00 AM	7.74
130	12/04/2024 11:48:00	12/4/2024	11:48:00 AM	7.74
131	12/04/2024 11:49:00	12/4/2024	11:49:00 AM	7.74
132	12/04/2024 11:50:00	12/4/2024	11:50:00 AM	7.74
133	12/04/2024 11:51:00	12/4/2024	11:51:00 AM	7.73
134	12/04/2024 11:52:00	12/4/2024	11:52:00 AM	7.73
135	12/04/2024 11:53:00	12/4/2024	11:53:00 AM	7.73
136	12/04/2024 11:54:00	12/4/2024	11:54:00 AM	7.73
137	12/04/2024 11:55:00	12/4/2024	11:55:00 AM	7.73
138	12/04/2024 11:56:00	12/4/2024	11:56:00 AM	7.73
139	12/04/2024 11:57:00	12/4/2024	11:57:00 AM	7.72
140	12/04/2024 11:58:00	12/4/2024	11:58:00 AM	7.72
141	12/04/2024 11:59:00	12/4/2024	11:59:00 AM	7.72
142	12/04/2024 12:00:00	12/4/2024	12:00:00 PM	7.72
143	12/04/2024 12:01:00	12/4/2024	12:01:00 PM	7.72
144	12/04/2024 12:02:00	12/4/2024	12:02:00 PM	7.72
145	12/04/2024 12:03:00	12/4/2024	12:03:00 PM	7.72
146	12/04/2024 12:04:00	12/4/2024	12:04:00 PM	7.72
147	12/04/2024 12:05:00	12/4/2024	12:05:00 PM	7.72
148	12/04/2024 12:06:00	12/4/2024	12:06:00 PM	7.72
149	12/04/2024 12:07:00	12/4/2024	12:07:00 PM	7.71
150	12/04/2024 12:08:00	12/4/2024	12:08:00 PM	7.71
151	12/04/2024 12:09:00	12/4/2024	12:09:00 PM	7.71
152	12/04/2024 12:10:00	12/4/2024	12:10:00 PM	7.71
153	12/04/2024 12:11:00	12/4/2024	12:11:00 PM	7.71
154	12/04/2024 12:12:00	12/4/2024	12:12:00 PM	7.71
155	12/04/2024 12:13:00	12/4/2024	12:13:00 PM	7.71
156	12/04/2024 12:14:00	12/4/2024	12:14:00 PM	7.71
157	12/04/2024 12:15:00	12/4/2024	12:15:00 PM	7.71
158	12/04/2024 12:16:00	12/4/2024	12:16:00 PM	7.71
159	12/04/2024 12:17:00	12/4/2024	12:17:00 PM	7.71
160	12/04/2024 12:18:00	12/4/2024	12:18:00 PM	7.71
161	12/04/2024 12:19:00	12/4/2024	12:19:00 PM	7.71
162	12/04/2024 12:20:00	12/4/2024	12:20:00 PM	7.71
163	12/04/2024 12:21:00	12/4/2024	12:21:00 PM	7.71
164	12/04/2024 12:22:00	12/4/2024	12:22:00 PM	7.71
165	12/04/2024 12:23:00	12/4/2024	12:23:00 PM	7.71

166	12/04/2024 12:24:00	12/4/2024	12:24:00 PM	7.71
167	12/04/2024 12:25:00	12/4/2024	12:25:00 PM	7.71
168	12/04/2024 12:26:00	12/4/2024	12:26:00 PM	7.71
169	12/04/2024 12:27:00	12/4/2024	12:27:00 PM	7.71
170	12/04/2024 12:28:00	12/4/2024	12:28:00 PM	7.71
171	12/04/2024 12:29:00	12/4/2024	12:29:00 PM	7.71
172	12/04/2024 12:30:00	12/4/2024	12:30:00 PM	7.71
173	12/04/2024 12:31:00	12/4/2024	12:31:00 PM	7.71
174	12/04/2024 12:32:00	12/4/2024	12:32:00 PM	7.71
175	12/04/2024 12:33:00	12/4/2024	12:33:00 PM	7.70
176	12/04/2024 12:34:00	12/4/2024	12:34:00 PM	7.70
177	12/04/2024 12:35:00	12/4/2024	12:35:00 PM	7.70
178	12/04/2024 12:36:00	12/4/2024	12:36:00 PM	7.70
179	12/04/2024 12:37:00	12/4/2024	12:37:00 PM	7.70
180	12/04/2024 12:38:00	12/4/2024	12:38:00 PM	7.70
181	12/04/2024 12:39:00	12/4/2024	12:39:00 PM	7.70
182	12/04/2024 12:40:00	12/4/2024	12:40:00 PM	7.70
183	12/04/2024 12:41:00	12/4/2024	12:41:00 PM	7.70
184	12/04/2024 12:42:00	12/4/2024	12:42:00 PM	7.70
185	12/04/2024 12:43:00	12/4/2024	12:43:00 PM	7.70
186	12/04/2024 12:44:00	12/4/2024	12:44:00 PM	7.70
187	12/04/2024 12:45:00	12/4/2024	12:45:00 PM	7.70
188	12/04/2024 12:46:00	12/4/2024	12:46:00 PM	7.70
189	12/04/2024 12:47:00	12/4/2024	12:47:00 PM	7.70
190	12/04/2024 12:48:00	12/4/2024	12:48:00 PM	7.70
191	12/04/2024 12:49:00	12/4/2024	12:49:00 PM	7.70
192	12/04/2024 12:50:00	12/4/2024	12:50:00 PM	7.70
193	12/04/2024 12:51:00	12/4/2024	12:51:00 PM	7.70
194	12/04/2024 12:52:00	12/4/2024	12:52:00 PM	7.70
195	12/04/2024 12:53:00	12/4/2024	12:53:00 PM	7.70
196	12/04/2024 12:54:00	12/4/2024	12:54:00 PM	7.70
197	12/04/2024 12:55:00	12/4/2024	12:55:00 PM	7.70
198	12/04/2024 12:56:00	12/4/2024	12:56:00 PM	7.70
199	12/04/2024 12:57:00	12/4/2024	12:57:00 PM	7.70
200	12/04/2024 12:58:00	12/4/2024	12:58:00 PM	7.70
201	12/04/2024 12:59:00	12/4/2024	12:59:00 PM	7.70
202	12/04/2024 13:00:00	12/4/2024	1:00:00 PM	7.70
203	12/04/2024 13:01:00	12/4/2024	1:01:00 PM	7.70
204	12/04/2024 13:02:00	12/4/2024	1:02:00 PM	7.70
205	12/04/2024 13:03:00	12/4/2024	1:03:00 PM	7.70
206	12/04/2024 13:04:00	12/4/2024	1:04:00 PM	7.70
207	12/04/2024 13:05:00	12/4/2024	1:05:00 PM	7.70
208	12/04/2024 13:06:00	12/4/2024	1:06:00 PM	7.70
209	12/04/2024 13:07:00	12/4/2024	1:07:00 PM	7.70
210	12/04/2024 13:08:00	12/4/2024	1:08:00 PM	7.70
211	12/04/2024 13:09:00	12/4/2024	1:09:00 PM	7.70
212	12/04/2024 13:10:00	12/4/2024	1:10:00 PM	7.70

213	12/04/2024 13:11:00	12/4/2024	1:11:00 PM	7.70
214	12/04/2024 13:12:00	12/4/2024	1:12:00 PM	7.70
215	12/04/2024 13:13:00	12/4/2024	1:13:00 PM	7.70
216	12/04/2024 13:14:00	12/4/2024	1:14:00 PM	7.70
217	12/04/2024 13:15:00	12/4/2024	1:15:00 PM	7.70
218	12/04/2024 13:16:00	12/4/2024	1:16:00 PM	7.70
219	12/04/2024 13:17:00	12/4/2024	1:17:00 PM	7.70
220	12/04/2024 13:18:00	12/4/2024	1:18:00 PM	7.70
221	12/04/2024 13:19:00	12/4/2024	1:19:00 PM	7.70
222	12/04/2024 13:20:00	12/4/2024	1:20:00 PM	7.70
223	12/04/2024 13:21:00	12/4/2024	1:21:00 PM	7.70
224	12/04/2024 13:22:00	12/4/2024	1:22:00 PM	7.70
225	12/04/2024 13:23:00	12/4/2024	1:23:00 PM	7.70
226	12/04/2024 13:24:00	12/4/2024	1:24:00 PM	7.70
227	12/04/2024 13:25:00	12/4/2024	1:25:00 PM	7.70
228	12/04/2024 13:26:00	12/4/2024	1:26:00 PM	7.70
229	12/04/2024 13:27:00	12/4/2024	1:27:00 PM	7.70
230	12/04/2024 13:28:00	12/4/2024	1:28:00 PM	7.70
231	12/04/2024 13:29:00	12/4/2024	1:29:00 PM	7.70
232	12/04/2024 13:30:00	12/4/2024	1:30:00 PM	7.70
233	12/04/2024 13:31:00	12/4/2024	1:31:00 PM	7.70
234	12/04/2024 13:32:00	12/4/2024	1:32:00 PM	7.70
235	12/04/2024 13:33:00	12/4/2024	1:33:00 PM	7.70
236	12/04/2024 13:34:00	12/4/2024	1:34:00 PM	7.70
237	12/04/2024 13:35:00	12/4/2024	1:35:00 PM	7.70
238	12/04/2024 13:36:00	12/4/2024	1:36:00 PM	7.70
239	12/04/2024 13:37:00	12/4/2024	1:37:00 PM	7.70
240	12/04/2024 13:38:00	12/4/2024	1:38:00 PM	7.70
241	12/04/2024 13:39:00	12/4/2024	1:39:00 PM	7.70
242	12/04/2024 13:40:00	12/4/2024	1:40:00 PM	7.70
243	12/04/2024 13:41:00	12/4/2024	1:41:00 PM	7.70
244	12/04/2024 13:42:00	12/4/2024	1:42:00 PM	7.70
245	12/04/2024 13:43:00	12/4/2024	1:43:00 PM	7.70
246	12/04/2024 13:44:00	12/4/2024	1:44:00 PM	7.70
247	12/04/2024 13:45:00	12/4/2024	1:45:00 PM	7.70
248	12/04/2024 13:46:00	12/4/2024	1:46:00 PM	7.70
249	12/04/2024 13:47:00	12/4/2024	1:47:00 PM	7.70
250	12/04/2024 13:48:00	12/4/2024	1:48:00 PM	7.70
251	12/04/2024 13:49:00	12/4/2024	1:49:00 PM	7.70
252	12/04/2024 13:50:00	12/4/2024	1:50:00 PM	7.70
253	12/04/2024 13:51:00	12/4/2024	1:51:00 PM	7.70
254	12/04/2024 13:52:00	12/4/2024	1:52:00 PM	7.70
255	12/04/2024 13:53:00	12/4/2024	1:53:00 PM	7.70
256	12/04/2024 13:54:00	12/4/2024	1:54:00 PM	7.70
257	12/04/2024 13:55:00	12/4/2024	1:55:00 PM	7.70
258	12/04/2024 13:56:00	12/4/2024	1:56:00 PM	7.70

HOBO 1 MINUTE EXPOSURE

#	Date-Time (PST)	Date-Time	Time	Bottom HOBO pH (pH)
75	12/04/2024 10:53:00	12/4/2024	10:53:00 AM	7.69
76	12/04/2024 10:54:00	12/4/2024	10:54:00 AM	7.68
77	12/04/2024 10:55:00	12/4/2024	10:55:00 AM	7.72
78	12/04/2024 10:56:00	12/4/2024	10:56:00 AM	8.04
79	12/04/2024 10:57:00	12/4/2024	10:57:00 AM	8.05
80	12/04/2024 10:58:00	12/4/2024	10:58:00 AM	8.02
81	12/04/2024 10:59:00	12/4/2024	10:59:00 AM	7.95
82	12/04/2024 11:00:00	12/4/2024	11:00:00 AM	7.95
83	12/04/2024 11:01:00	12/4/2024	11:01:00 AM	7.94
84	12/04/2024 11:02:00	12/4/2024	11:02:00 AM	7.93
85	12/04/2024 11:03:00	12/4/2024	11:03:00 AM	7.92
86	12/04/2024 11:04:00	12/4/2024	11:04:00 AM	7.91
87	12/04/2024 11:05:00	12/4/2024	11:05:00 AM	7.91
88	12/04/2024 11:06:00	12/4/2024	11:06:00 AM	7.90
89	12/04/2024 11:07:00	12/4/2024	11:07:00 AM	7.89
90	12/04/2024 11:08:00	12/4/2024	11:08:00 AM	7.88
91	12/04/2024 11:09:00	12/4/2024	11:09:00 AM	7.88
92	12/04/2024 11:10:00	12/4/2024	11:10:00 AM	7.87
93	12/04/2024 11:11:00	12/4/2024	11:11:00 AM	7.86
94	12/04/2024 11:12:00	12/4/2024	11:12:00 AM	7.86
95	12/04/2024 11:13:00	12/4/2024	11:13:00 AM	7.85
96	12/04/2024 11:14:00	12/4/2024	11:14:00 AM	7.85
97	12/04/2024 11:15:00	12/4/2024	11:15:00 AM	7.84
98	12/04/2024 11:16:00	12/4/2024	11:16:00 AM	7.83
99	12/04/2024 11:17:00	12/4/2024	11:17:00 AM	7.83
100	12/04/2024 11:18:00	12/4/2024	11:18:00 AM	7.82
101	12/04/2024 11:19:00	12/4/2024	11:19:00 AM	7.82
102	12/04/2024 11:20:00	12/4/2024	11:20:00 AM	7.81
103	12/04/2024 11:21:00	12/4/2024	11:21:00 AM	7.81
104	12/04/2024 11:22:00	12/4/2024	11:22:00 AM	7.80
105	12/04/2024 11:23:00	12/4/2024	11:23:00 AM	7.80
106	12/04/2024 11:24:00	12/4/2024	11:24:00 AM	7.80
107	12/04/2024 11:25:00	12/4/2024	11:25:00 AM	7.79
108	12/04/2024 11:26:00	12/4/2024	11:26:00 AM	7.79
109	12/04/2024 11:27:00	12/4/2024	11:27:00 AM	7.79
110	12/04/2024 11:28:00	12/4/2024	11:28:00 AM	7.78
111	12/04/2024 11:29:00	12/4/2024	11:29:00 AM	7.78
112	12/04/2024 11:30:00	12/4/2024	11:30:00 AM	7.78
113	12/04/2024 11:31:00	12/4/2024	11:31:00 AM	7.77
114	12/04/2024 11:32:00	12/4/2024	11:32:00 AM	7.77
115	12/04/2024 11:33:00	12/4/2024	11:33:00 AM	7.77
116	12/04/2024 11:34:00	12/4/2024	11:34:00 AM	7.76
117	12/04/2024 11:35:00	12/4/2024	11:35:00 AM	7.76
118	12/04/2024 11:36:00	12/4/2024	11:36:00 AM	7.76

119	12/04/2024 11:37:00	12/4/2024	11:37:00 AM	7.76
120	12/04/2024 11:38:00	12/4/2024	11:38:00 AM	7.75
121	12/04/2024 11:39:00	12/4/2024	11:39:00 AM	7.75
122	12/04/2024 11:40:00	12/4/2024	11:40:00 AM	7.75
123	12/04/2024 11:41:00	12/4/2024	11:41:00 AM	7.75
124	12/04/2024 11:42:00	12/4/2024	11:42:00 AM	7.75
125	12/04/2024 11:43:00	12/4/2024	11:43:00 AM	7.75
126	12/04/2024 11:44:00	12/4/2024	11:44:00 AM	7.74
127	12/04/2024 11:45:00	12/4/2024	11:45:00 AM	7.74
128	12/04/2024 11:46:00	12/4/2024	11:46:00 AM	7.74
129	12/04/2024 11:47:00	12/4/2024	11:47:00 AM	7.74
130	12/04/2024 11:48:00	12/4/2024	11:48:00 AM	7.74
131	12/04/2024 11:49:00	12/4/2024	11:49:00 AM	7.74
132	12/04/2024 11:50:00	12/4/2024	11:50:00 AM	7.73
133	12/04/2024 11:51:00	12/4/2024	11:51:00 AM	7.73
134	12/04/2024 11:52:00	12/4/2024	11:52:00 AM	7.73
135	12/04/2024 11:53:00	12/4/2024	11:53:00 AM	7.73
136	12/04/2024 11:54:00	12/4/2024	11:54:00 AM	7.73
137	12/04/2024 11:55:00	12/4/2024	11:55:00 AM	7.73
138	12/04/2024 11:56:00	12/4/2024	11:56:00 AM	7.73
139	12/04/2024 11:57:00	12/4/2024	11:57:00 AM	7.73
140	12/04/2024 11:58:00	12/4/2024	11:58:00 AM	7.73
141	12/04/2024 11:59:00	12/4/2024	11:59:00 AM	7.73
142	12/04/2024 12:00:00	12/4/2024	12:00:00 PM	7.73
143	12/04/2024 12:01:00	12/4/2024	12:01:00 PM	7.72
144	12/04/2024 12:02:00	12/4/2024	12:02:00 PM	7.72
145	12/04/2024 12:03:00	12/4/2024	12:03:00 PM	7.72
146	12/04/2024 12:04:00	12/4/2024	12:04:00 PM	7.72
147	12/04/2024 12:05:00	12/4/2024	12:05:00 PM	7.72
148	12/04/2024 12:06:00	12/4/2024	12:06:00 PM	7.72
149	12/04/2024 12:07:00	12/4/2024	12:07:00 PM	7.72
150	12/04/2024 12:08:00	12/4/2024	12:08:00 PM	7.72
151	12/04/2024 12:09:00	12/4/2024	12:09:00 PM	7.72
152	12/04/2024 12:10:00	12/4/2024	12:10:00 PM	7.72
153	12/04/2024 12:11:00	12/4/2024	12:11:00 PM	7.72
154	12/04/2024 12:12:00	12/4/2024	12:12:00 PM	7.72
155	12/04/2024 12:13:00	12/4/2024	12:13:00 PM	7.72
156	12/04/2024 12:14:00	12/4/2024	12:14:00 PM	7.72
157	12/04/2024 12:15:00	12/4/2024	12:15:00 PM	7.72
158	12/04/2024 12:16:00	12/4/2024	12:16:00 PM	7.72
159	12/04/2024 12:17:00	12/4/2024	12:17:00 PM	7.72
160	12/04/2024 12:18:00	12/4/2024	12:18:00 PM	7.72
161	12/04/2024 12:19:00	12/4/2024	12:19:00 PM	7.72
162	12/04/2024 12:20:00	12/4/2024	12:20:00 PM	7.72
163	12/04/2024 12:21:00	12/4/2024	12:21:00 PM	7.72
164	12/04/2024 12:22:00	12/4/2024	12:22:00 PM	7.71
165	12/04/2024 12:23:00	12/4/2024	12:23:00 PM	7.71

166	12/04/2024 12:24:00	12/4/2024	12:24:00 PM	7.71
167	12/04/2024 12:25:00	12/4/2024	12:25:00 PM	7.71
168	12/04/2024 12:26:00	12/4/2024	12:26:00 PM	7.71
169	12/04/2024 12:27:00	12/4/2024	12:27:00 PM	7.71
170	12/04/2024 12:28:00	12/4/2024	12:28:00 PM	7.71
171	12/04/2024 12:29:00	12/4/2024	12:29:00 PM	7.71
172	12/04/2024 12:30:00	12/4/2024	12:30:00 PM	7.71
173	12/04/2024 12:31:00	12/4/2024	12:31:00 PM	7.71
174	12/04/2024 12:32:00	12/4/2024	12:32:00 PM	7.71
175	12/04/2024 12:33:00	12/4/2024	12:33:00 PM	7.71
176	12/04/2024 12:34:00	12/4/2024	12:34:00 PM	7.71
177	12/04/2024 12:35:00	12/4/2024	12:35:00 PM	7.71
178	12/04/2024 12:36:00	12/4/2024	12:36:00 PM	7.71
179	12/04/2024 12:37:00	12/4/2024	12:37:00 PM	7.71
180	12/04/2024 12:38:00	12/4/2024	12:38:00 PM	7.71
181	12/04/2024 12:39:00	12/4/2024	12:39:00 PM	7.71
182	12/04/2024 12:40:00	12/4/2024	12:40:00 PM	7.71
183	12/04/2024 12:41:00	12/4/2024	12:41:00 PM	7.71
184	12/04/2024 12:42:00	12/4/2024	12:42:00 PM	7.71
185	12/04/2024 12:43:00	12/4/2024	12:43:00 PM	7.71
186	12/04/2024 12:44:00	12/4/2024	12:44:00 PM	7.71
187	12/04/2024 12:45:00	12/4/2024	12:45:00 PM	7.71
188	12/04/2024 12:46:00	12/4/2024	12:46:00 PM	7.71
189	12/04/2024 12:47:00	12/4/2024	12:47:00 PM	7.71
190	12/04/2024 12:48:00	12/4/2024	12:48:00 PM	7.71
191	12/04/2024 12:49:00	12/4/2024	12:49:00 PM	7.71
192	12/04/2024 12:50:00	12/4/2024	12:50:00 PM	7.71
193	12/04/2024 12:51:00	12/4/2024	12:51:00 PM	7.71
194	12/04/2024 12:52:00	12/4/2024	12:52:00 PM	7.71
195	12/04/2024 12:53:00	12/4/2024	12:53:00 PM	7.71
196	12/04/2024 12:54:00	12/4/2024	12:54:00 PM	7.71
197	12/04/2024 12:55:00	12/4/2024	12:55:00 PM	7.71
198	12/04/2024 12:56:00	12/4/2024	12:56:00 PM	7.71
199	12/04/2024 12:57:00	12/4/2024	12:57:00 PM	7.71
200	12/04/2024 12:58:00	12/4/2024	12:58:00 PM	7.71
201	12/04/2024 12:59:00	12/4/2024	12:59:00 PM	7.71
202	12/04/2024 13:00:00	12/4/2024	1:00:00 PM	7.71
203	12/04/2024 13:01:00	12/4/2024	1:01:00 PM	7.71
204	12/04/2024 13:02:00	12/4/2024	1:02:00 PM	7.71
205	12/04/2024 13:03:00	12/4/2024	1:03:00 PM	7.71
206	12/04/2024 13:04:00	12/4/2024	1:04:00 PM	7.71
207	12/04/2024 13:05:00	12/4/2024	1:05:00 PM	7.71
208	12/04/2024 13:06:00	12/4/2024	1:06:00 PM	7.71
209	12/04/2024 13:07:00	12/4/2024	1:07:00 PM	7.71
210	12/04/2024 13:08:00	12/4/2024	1:08:00 PM	7.71
211	12/04/2024 13:09:00	12/4/2024	1:09:00 PM	7.71
212	12/04/2024 13:10:00	12/4/2024	1:10:00 PM	7.71

213	12/04/2024 13:11:00	12/4/2024	1:11:00 PM	7.71
214	12/04/2024 13:12:00	12/4/2024	1:12:00 PM	7.71
215	12/04/2024 13:13:00	12/4/2024	1:13:00 PM	7.71
216	12/04/2024 13:14:00	12/4/2024	1:14:00 PM	7.71
217	12/04/2024 13:15:00	12/4/2024	1:15:00 PM	7.71
218	12/04/2024 13:16:00	12/4/2024	1:16:00 PM	7.71
219	12/04/2024 13:17:00	12/4/2024	1:17:00 PM	7.71
220	12/04/2024 13:18:00	12/4/2024	1:18:00 PM	7.71
221	12/04/2024 13:19:00	12/4/2024	1:19:00 PM	7.71
222	12/04/2024 13:20:00	12/4/2024	1:20:00 PM	7.71
223	12/04/2024 13:21:00	12/4/2024	1:21:00 PM	7.71
224	12/04/2024 13:22:00	12/4/2024	1:22:00 PM	7.71
225	12/04/2024 13:23:00	12/4/2024	1:23:00 PM	7.71
226	12/04/2024 13:24:00	12/4/2024	1:24:00 PM	7.71
227	12/04/2024 13:25:00	12/4/2024	1:25:00 PM	7.71
228	12/04/2024 13:26:00	12/4/2024	1:26:00 PM	7.71
229	12/04/2024 13:27:00	12/4/2024	1:27:00 PM	7.71
230	12/04/2024 13:28:00	12/4/2024	1:28:00 PM	7.71
231	12/04/2024 13:29:00	12/4/2024	1:29:00 PM	7.71
232	12/04/2024 13:30:00	12/4/2024	1:30:00 PM	7.71
233	12/04/2024 13:31:00	12/4/2024	1:31:00 PM	7.71
234	12/04/2024 13:32:00	12/4/2024	1:32:00 PM	7.71
235	12/04/2024 13:33:00	12/4/2024	1:33:00 PM	7.71
236	12/04/2024 13:34:00	12/4/2024	1:34:00 PM	7.71
237	12/04/2024 13:35:00	12/4/2024	1:35:00 PM	7.71
238	12/04/2024 13:36:00	12/4/2024	1:36:00 PM	7.71
239	12/04/2024 13:37:00	12/4/2024	1:37:00 PM	7.71
240	12/04/2024 13:38:00	12/4/2024	1:38:00 PM	7.71
241	12/04/2024 13:39:00	12/4/2024	1:39:00 PM	7.71
242	12/04/2024 13:40:00	12/4/2024	1:40:00 PM	7.71
243	12/04/2024 13:41:00	12/4/2024	1:41:00 PM	7.71
244	12/04/2024 13:42:00	12/4/2024	1:42:00 PM	7.71
245	12/04/2024 13:43:00	12/4/2024	1:43:00 PM	7.71
246	12/04/2024 13:44:00	12/4/2024	1:44:00 PM	7.71
247	12/04/2024 13:45:00	12/4/2024	1:45:00 PM	7.71
248	12/04/2024 13:46:00	12/4/2024	1:46:00 PM	7.71
249	12/04/2024 13:47:00	12/4/2024	1:47:00 PM	7.71
250	12/04/2024 13:48:00	12/4/2024	1:48:00 PM	7.71
251	12/04/2024 13:49:00	12/4/2024	1:49:00 PM	7.71
252	12/04/2024 13:50:00	12/4/2024	1:50:00 PM	7.71
253	12/04/2024 13:51:00	12/4/2024	1:51:00 PM	7.71
254	12/04/2024 13:52:00	12/4/2024	1:52:00 PM	7.71
255	12/04/2024 13:53:00	12/4/2024	1:53:00 PM	7.71
256	12/04/2024 13:54:00	12/4/2024	1:54:00 PM	7.71
257	12/04/2024 13:55:00	12/4/2024	1:55:00 PM	7.71
258	12/04/2024 13:56:00	12/4/2024	1:56:00 PM	7.71

4. Bioassay 5-Min Exposure

4.1 Bioassay 5-Min Exposure Test Data

5 Min Exposure Test

Client	Anchor QEA
Project	Project Macoma
Project Number	PG1931
Project Manager	M. Knowlen & J. Word
Date Sample Received	12/2/2024
Test type	3-Hour Acute Toxicity with Coho Salmon
Matrix	Liquid
Test Acceptability	≥ 90% average survival of control
Test Start Date	12/03/24
Test Species	<i>Oncorhynchus kisutch</i>
Organism Batch	LEFH111524
Organism Acquired	11/15/2024
Organism Acclimation	18
Organism Age	Juvenile (hatched 1/8/24)
Test Protocol	Adapted from EPA OPPTS (EPA 1996)
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Test Location	Next to Bath 1
Water Description	filtered sea water
Organisms per Replicate	10
Test Chamber Size	167 L
Exposure Volume	3.8 L sample in 146 L (150 L Volume Total)
Test Dissolved Oxygen	>6.5
Test Temperature	12 ± 2
Salinity	
Test pH	

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	6.5	
Temp	9.5	14.4
Salinity		
pH		

Exposure START TIME/INIT: 1029 MK JW
 Exposure END TIME/INIT: 1029 MK JW
 Test END TIME/INIT (3 hr after exposure end time): 1328 MK JW

Test END TIME/INIT (3 hr after exposure end time):

CLIENT SAMPLE ID	LAB ID
NFCB9.8	P241202.01

Concentrations	
1	100%
2	.
3	.
4	.
5	.
6	.
7	.
8	.
9	.

Treatment	Rep	Chamber
100%	1	4
100%	2	2
100%	3	3
100%	H	1
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	

time to disperse sample : 1 min 51 sec

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/3/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/3/24	SPECIES	<i>Oncorhynchus kisutch</i>
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

	Sample + Discharge Exposure	DO (mg/L)	TEMP (°C)	Salinity (ppt)	pH
		>6.5	10 - 14	-	-
Sample Stock	NFCB9.8 (5 Min)	7.4	12.4	39	10.0
Stock					
Date 12/3/24					
Time 0830					
Tech MK					
Meter # 8					
Test Initiation (0 hrs)	NFCB9.8 (5 Min)	7.7	11.3	08031	7.6
Rep 1					
Date 12/3/24					
Time 1015					
Tech MK					
Meter # 8					
Test Termination (3 hrs)	NFCB9.8 (5 Min)	7.1	11.0	31	7.6
Rep 1					
Date 12/3/24					
Time 1356					
Tech MK					
Meter # 8					

0 MK. MK 12/3

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/3/24	PROJECT MANAGER	M. Knowlton & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/3/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:
 N = Normal
 NB = No Body
 F = Flashing (scratching on bottom/sides to relieve itching)
 LOE = Loss of equilibrium or erratic behavior
 A = Avoidance (moving from one side of chamber to other)

Observations	
Video Analysis Date:	12/23/24
Video Analysis Time:	1000
Tech:	MW
Obs Intervals	Time On Video Recording

Rep 1 (WQ Chamber)

Notes

NFCB9.8 (5 Min)	During Sample Dispersal (1 min 15 sec 5 sec)	1:26-3:17	Fish clustered together, very little movement activity. Become more active at 2:30 in video. At 2:51 almost all are moving about the chamber primarily staying on right side by 3:00 in video. One fish swims under pumpe of brine, unphased.
	During Exposure Period	3:17-8:17	Fsw line slow leak visible during exposure period. Fish clustered, not active in right side of chamber. FSW kicks on officially @ 8:23.
	Obs Intervals: After Exposure to Sample		Notes
	30 Sec	8:47	Normal behavior. Alert. Inactive but no erratic motion.
	1 Min	9:17	Normal behavior. Alert. most inactive, some active. No erratic motion.
	5 Min	13:17	Normal behavior. Alert. Inactive but no erratic motion.
	15 Min	23:17	Normal behavior. Alert. most inactive. No erratic motion.
	30 Min	38:17	Normal behavior. Alert. Inactive but no erratic motion.
	1 Hr	1:08:17	Normal behavior. Fish are more dispersed throughout chamber. NO erratic motion.
	2 Hr	2:08:17	Normal behavior. Alert. Some active. No erratic motion.
3 Hr (end)	Number Alive, Number Dead: 10A 0D	All fish alert, active. Difficult to net/remove from chamber due to their activeness.	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills—open gill plate and check for opacity, visible signs of damage

Eyes—check for discoloration, visible signs of damage

Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/3/24	PROJECT MANAGER	M. Knowlton & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/3/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:		Observations	
N = Normal			
NB = No Body			
F = Flashing (scratching on bottom/sides to relieve itching)			
LOE = Loss of equilibrium or erratic behavior			
A = Avoidance (moving from one side of chamber to other)			
Video Analysis Date:	12/3/24		
Video Analysis Time:	1:35		Rep 2
Sample + Discharge Exposure Period	Tech: MW		
	Obs Intervals	Time On Video Recording	Notes
NFCB9.8 (5 Min)	During Sample Dispersal (1 min 45 sec) 51 sec	1:32 - 3:23	Nearly all fish clustered under sample spigot - brine plume visible above them. At 2:33 in video they become more active & move to left right area of chamber before dispersing throughout chamber. Active. Swimming normal.
	During Exposure Period	3:23 - 8:23	Active, normal behavior. Video jumpy; hard to tell exact time FSW kicks on after exposure period.
		Obs Intervals: After Exposure to Sample	Notes
	30 Sec	8:53	Normal behavior, active, alert.
	1 Min	9:23	Normal behavior, active, alert.
	5 Min	13:23	Normal behavior, active, alert.
	15 Min	23:23	Normal behavior, alert, active.
	30 Min	38:23	Normal behavior, alert, active.
	1 Hr	1:08:23	Normal behavior, alert, active.
	2 Hr	2:08:23	Normal behavior, alert, active.
3 Hr (end)	Number Alive, Number Dead: 10A 0D	All fish alert, active. Difficult to net/remove fish from chamber due to their due to inability to a ^{cess} chamber w/ net and camera plugged in. Stopped video after 3 hr end but before netting fish.	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
 Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
 Handling chamber additional inspection:
 Gills—open gill plate and check for opacity, visible signs of damage
 Eyes—check for discoloration, visible signs of damage
 Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/3/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/3/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:		Observations		
N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)				
Video Analysis Date:	12/23/24	Rep 3		
Video Analysis Time:	1020			
Tech:	MK			
Sample + Discharge Exposure Period	Obs Intervals	Time On Video Recording	Notes	
NFCB9.8 (5 Min)	During Sample Dispersal (1 min 45 sec 51 sec)	1:30-3:21	Fish swimming in place, no real movement or erratic behavior. At 2:34 one fish swims under brine plume from sample dispersal. At 2:55 two more fish swim under brine plume. Fish are seemingly more active between 2:50-3:00. At 3:12 and 3:15 two fish swim under brine plume, they do not appear to be avoiding it.	
	During Exposure Period	3:21-8:21	All fish displaying normal behavior. Nothing erratic. EDW kicks on @ 5:30 on video? Officially turned on at 8:30 in video.	
	Obs Intervals: After Exposure to Sample		(Slightly) → line burps	Notes
	30 Sec	8:51	Normal behavior. Alert, active.	
	1 Min	9:51 9:21	Normal behavior. Alert, active.	
	5 Min	11:51 13:21	Normal behavior. Alert, active.	
	15 Min	14:51 23:21	Normal behavior. Alert, active.	
	30 Min	18:51 38:21	Normal behavior. Alert, active.	
	1 Hr	1:08:21	Normal behavior. Alert, active.	
	2 Hr	2:08:21	Normal behavior. Alert, active.	
3 Hr (end)	Number Alive, Number Dead: 10A 0D	All fish alert, active. Difficult to net/remove fish from chamber due to their activeness.		

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
 Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
 Handling chamber additional inspection:
 Gills—open gill plate and check for opacity, visible signs of damage
 Eyes—check for discoloration, visible signs of damage
 Body—check for obvious signs of damage, lesions, etc

① IE, MK 12/23.

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/3/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	NFCB9.8	TEST END DATE	12/3/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	P241202.01	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:
 N = Normal
 NB = No Body
 F = Flashing (scratching on bottom/sides to relieve itching)
 LOE = Loss of equilibrium or erratic behavior
 A = Avoidance (moving from one side of chamber to other)

Sample + Discharge Exposure Period	Video Analysis Date:	12/23/24	Observations
	Video Analysis Time:	1000	
	Tech:	MK	
	Obs Intervals	Time On Video Recording	

NFCB9.8 (5 Min)	During Sample Dispersal (1 min 55 sec 51 sec)	1:24 - 3:15	<p>Handling Chamber</p> <p>Notes</p> <p>All fish appear normal. No erratic behavior. At 2:00 2:47 on video, no swim through brine stream, and again at 2:30. Unphased. Opaque brine cloud of sample visible slightly when sample enters chamber. No flashing behavior. Fish active. At 3:05 one fish sits below sample stream for a second and then swims away; unphased. No avoidance in general.</p> <p>Fish active. At 3:34 one swims to surface, then dives down to bottom of chamber. All behavior normal in appearance. At 3:20 fish gets injured on - all fish dart to right side of chamber, and then quickly re-distribute.</p> <p>All fish appear normal in behavior and alert. Very active. Eyes not cloudy, good body color. Difficult to net / remove fish from chamber due to their activeness.</p>
	During Exposure Period	3:15 - 8:15	
	Immediately After Exposure Period (Fish Pulled & Examined)		
	Number Alive, Number Dead:	10 A 0 D	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
 Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
 Handling chamber additional inspection:
 Gills--open gill plate and check for opacity, visible signs of damage
 Eyes--check for discoloration, visible signs of damage
 Body--check for obvious signs of damage, lesions, etc

① IE. MK 12/23.

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	NFCB9.8
LAB SAMPLE ID	P241202.01
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/3/24
TEST END DATE	12/3/24
MATRIX	Liquid
SPECIES	Oncorhynchus kisutch
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

REP 1 (WQ Chamber)	
Date/Time:	1336 12/3/24
Technician:	JW/AR

	Length (mm)	Weight (g)
1	81	7.09
2	82	6.74
3	83	7.48
4	85	7.34
5	78	5.75
6	81	6.67
7	75	5.99
8	84	6.97
9	79	6.37
10	83	7.85

Average Length (mm)	81.1
Average Weight (g)	6.825

Comments:

Fish (1): gills normal, red. Eyes normal, not cloudy.
 (2-10): gills normal, red. Eyes normal, not cloudy

REP 2	
Date/Time:	12/3/24 1400
Technician:	JW/AR

	Length (mm)	Weight (g)
1	79	6.93
2	82	7.37
3	88	8.79
4	79	6.83
5	82	6.67
6	83	8.14
7	83	6.28
8	77	6.30
9	87	8.97
10	75	5.47

Average Length (mm)	81.6
Average Weight (g)	7.21

Comments:

Fish (1) gills normal, red. Eyes normal, not cloudy
 (2-10) gills normal, red. Eyes normal, not cloudy

① IE.

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	NFCB9.8
LAB SAMPLE ID	P241202.01
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/3/24
TEST START DATE	12/3/24
TEST END DATE	12/3/24
MATRIX	Liquid
SPECIES	<i>Oncorhynchus kisutch</i>
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

REP 3
Date/Time: 1349 12/8/24
Technician: JW/AR

	Length (mm)	Weight (g)
1	81	6.90
2	89	8.54
3	88	9.81
4	82	7.54
5	85	8.45
6	85	8.55
7	70	4.95
8	84	7.37
9	86	7.81
10	65	3.67

Average Length (mm)	81.5
Average Weight (g)	7.364

Comments:

Fish (1) gills normal, red. Eyes normal, not cloudy
 (2-10) gills normal, red. Eyes normal, not cloudy

Handling Chamber
Date/Time: 12/3/24 1100
Technician: MK/JW

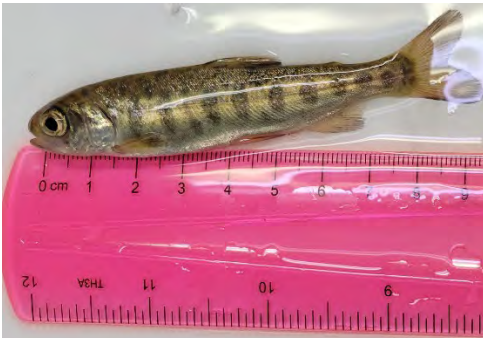
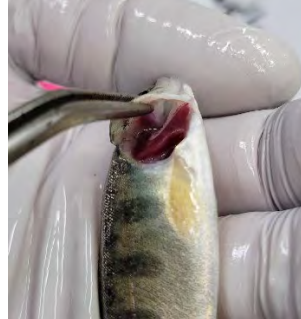
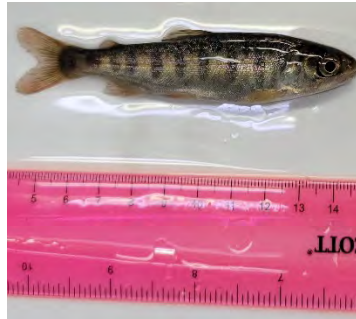
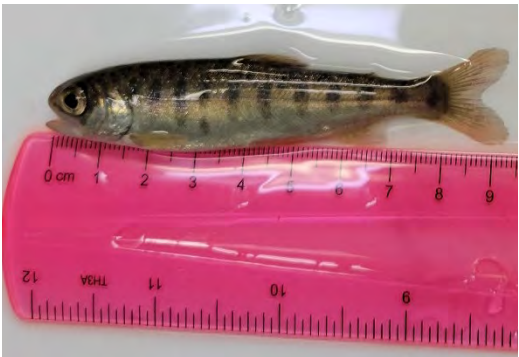
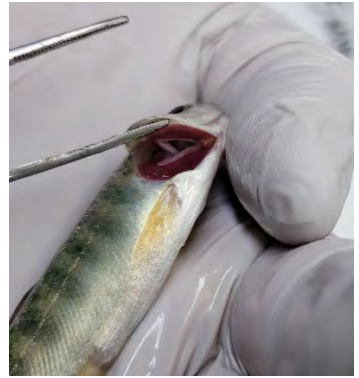
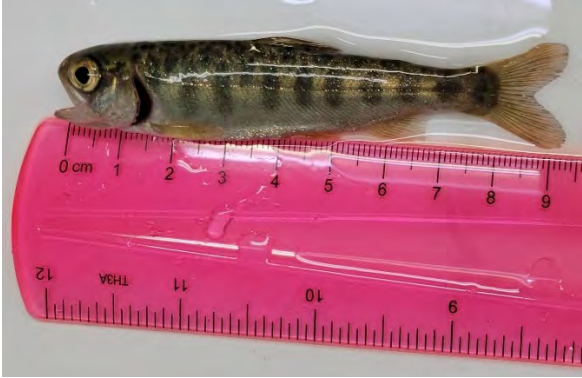
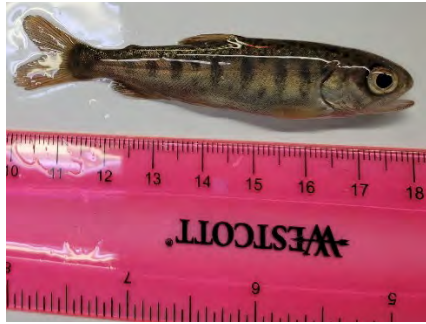
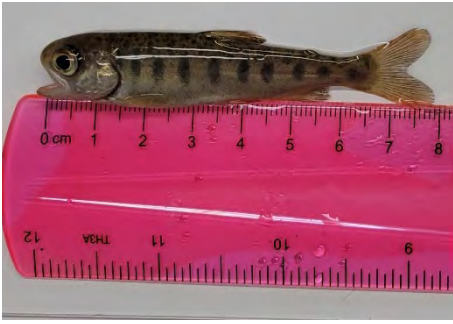
	Length (mm)	Weight (g)
1	65	3.99
2	80	6.91
3	80	6.99
4	82	9.07
5	82	6.42
6	79	6.11
7	83	7.79
8	84	7.35
9	82	7.42
10	85	7.10

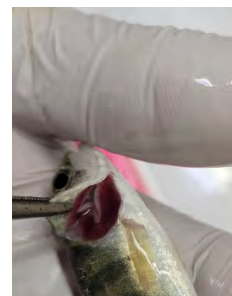
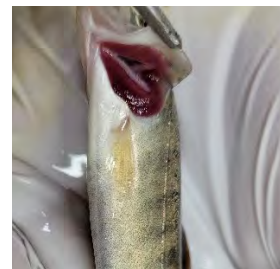
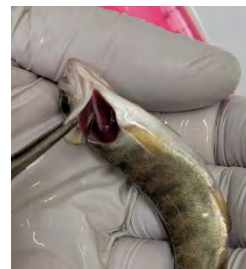
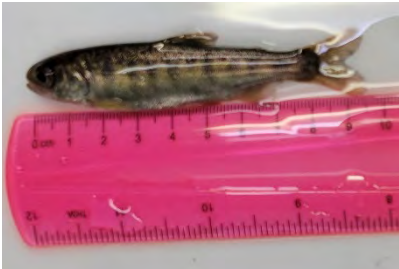
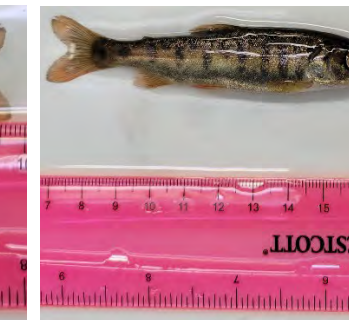
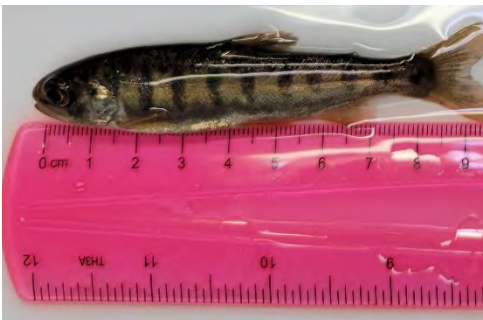
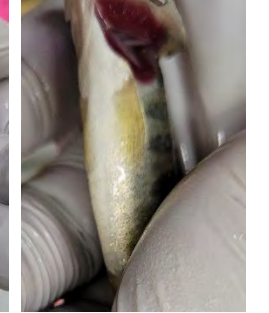
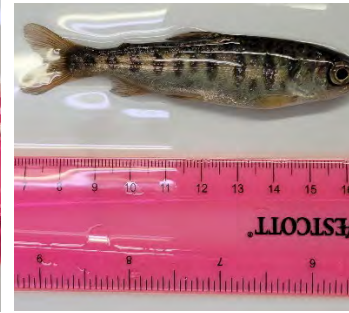
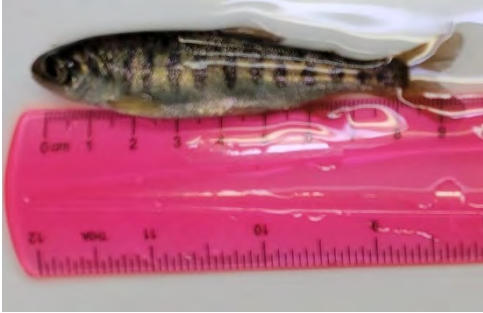
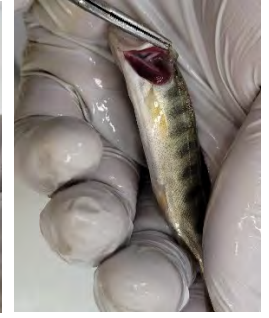
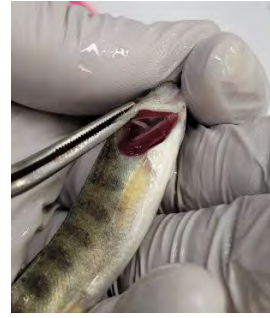
Average Length (mm)	81.2
Average Weight (g)	6.915

Comments:

Fish (1) gills normal, red. Eyes normal, not cloudy.
 (2) gills norm, red. Eyes normal, not cloudy.
 (4) gills norm. red. Eyes norm. not cloudy. Bodies normal color.
 (5-10) " " " "

4.2 Bioassay 5-Min Exposure Test Organism Photos





4.3 Bioassay 5-Min Exposure pH HOBO Data

HOBO 5 MIN EXPOSURE

#	Date-Time (PST)	Date	Time	Surface HOBO pH (pH)
843	12/03/2024 10:21:00	12/3/2024	10:21:00 AM	7.70
844	12/03/2024 10:21:05	12/3/2024	10:21:05 AM	7.70
845	12/03/2024 10:21:10	12/3/2024	10:21:10 AM	7.70
846	12/03/2024 10:21:15	12/3/2024	10:21:15 AM	7.70
847	12/03/2024 10:21:20	12/3/2024	10:21:20 AM	7.70
848	12/03/2024 10:21:25	12/3/2024	10:21:25 AM	7.70
849	12/03/2024 10:21:30	12/3/2024	10:21:30 AM	7.70
850	12/03/2024 10:21:35	12/3/2024	10:21:35 AM	7.70
851	12/03/2024 10:21:40	12/3/2024	10:21:40 AM	7.70
852	12/03/2024 10:21:45	12/3/2024	10:21:45 AM	7.70
853	12/03/2024 10:21:50	12/3/2024	10:21:50 AM	7.70
854	12/03/2024 10:21:55	12/3/2024	10:21:55 AM	7.70
855	12/03/2024 10:22:00	12/3/2024	10:22:00 AM	7.70
856	12/03/2024 10:22:05	12/3/2024	10:22:05 AM	7.70
857	12/03/2024 10:22:10	12/3/2024	10:22:10 AM	7.70
858	12/03/2024 10:22:15	12/3/2024	10:22:15 AM	7.70
859	12/03/2024 10:22:20	12/3/2024	10:22:20 AM	7.70
860	12/03/2024 10:22:25	12/3/2024	10:22:25 AM	7.70
861	12/03/2024 10:22:30	12/3/2024	10:22:30 AM	7.73
862	12/03/2024 10:22:35	12/3/2024	10:22:35 AM	7.79
863	12/03/2024 10:22:40	12/3/2024	10:22:40 AM	7.82
864	12/03/2024 10:22:45	12/3/2024	10:22:45 AM	7.87
865	12/03/2024 10:22:50	12/3/2024	10:22:50 AM	7.88
866	12/03/2024 10:22:55	12/3/2024	10:22:55 AM	7.90
867	12/03/2024 10:23:00	12/3/2024	10:23:00 AM	7.92
868	12/03/2024 10:23:05	12/3/2024	10:23:05 AM	7.93
869	12/03/2024 10:23:10	12/3/2024	10:23:10 AM	7.95
870	12/03/2024 10:23:15	12/3/2024	10:23:15 AM	7.96
871	12/03/2024 10:23:20	12/3/2024	10:23:20 AM	7.96
872	12/03/2024 10:23:25	12/3/2024	10:23:25 AM	7.98
873	12/03/2024 10:23:30	12/3/2024	10:23:30 AM	7.99
874	12/03/2024 10:23:35	12/3/2024	10:23:35 AM	8.00
875	12/03/2024 10:23:40	12/3/2024	10:23:40 AM	8.00
876	12/03/2024 10:23:45	12/3/2024	10:23:45 AM	8.01
877	12/03/2024 10:23:50	12/3/2024	10:23:50 AM	8.02
878	12/03/2024 10:23:55	12/3/2024	10:23:55 AM	8.02
879	12/03/2024 10:24:00	12/3/2024	10:24:00 AM	8.02
880	12/03/2024 10:24:05	12/3/2024	10:24:05 AM	8.02
881	12/03/2024 10:24:10	12/3/2024	10:24:10 AM	8.02
882	12/03/2024 10:24:15	12/3/2024	10:24:15 AM	8.02
883	12/03/2024 10:24:20	12/3/2024	10:24:20 AM	8.02
884	12/03/2024 10:24:25	12/3/2024	10:24:25 AM	8.01
885	12/03/2024 10:24:30	12/3/2024	10:24:30 AM	8.01
886	12/03/2024 10:24:35	12/3/2024	10:24:35 AM	8.01

887	12/03/2024 10:24:40	12/3/2024	10:24:40 AM	8.01
888	12/03/2024 10:24:45	12/3/2024	10:24:45 AM	8.01
889	12/03/2024 10:24:50	12/3/2024	10:24:50 AM	8.01
890	12/03/2024 10:24:55	12/3/2024	10:24:55 AM	8.01
891	12/03/2024 10:25:00	12/3/2024	10:25:00 AM	8.01
892	12/03/2024 10:25:05	12/3/2024	10:25:05 AM	8.01
893	12/03/2024 10:25:10	12/3/2024	10:25:10 AM	8.01
894	12/03/2024 10:25:15	12/3/2024	10:25:15 AM	8.01
895	12/03/2024 10:25:20	12/3/2024	10:25:20 AM	8.01
896	12/03/2024 10:25:25	12/3/2024	10:25:25 AM	8.01
897	12/03/2024 10:25:30	12/3/2024	10:25:30 AM	8.00
898	12/03/2024 10:25:35	12/3/2024	10:25:35 AM	8.00
899	12/03/2024 10:25:40	12/3/2024	10:25:40 AM	8.00
900	12/03/2024 10:25:45	12/3/2024	10:25:45 AM	8.00
901	12/03/2024 10:25:50	12/3/2024	10:25:50 AM	8.00
902	12/03/2024 10:25:55	12/3/2024	10:25:55 AM	8.00
903	12/03/2024 10:26:00	12/3/2024	10:26:00 AM	8.00
904	12/03/2024 10:26:05	12/3/2024	10:26:05 AM	7.99
905	12/03/2024 10:26:10	12/3/2024	10:26:10 AM	7.99
906	12/03/2024 10:26:15	12/3/2024	10:26:15 AM	7.98
907	12/03/2024 10:26:20	12/3/2024	10:26:20 AM	7.98
908	12/03/2024 10:26:25	12/3/2024	10:26:25 AM	7.98
909	12/03/2024 10:26:30	12/3/2024	10:26:30 AM	7.97
910	12/03/2024 10:26:35	12/3/2024	10:26:35 AM	7.97
911	12/03/2024 10:26:40	12/3/2024	10:26:40 AM	7.96
912	12/03/2024 10:26:45	12/3/2024	10:26:45 AM	7.96
913	12/03/2024 10:26:50	12/3/2024	10:26:50 AM	7.96
914	12/03/2024 10:26:55	12/3/2024	10:26:55 AM	7.96
915	12/03/2024 10:27:00	12/3/2024	10:27:00 AM	7.96
916	12/03/2024 10:27:05	12/3/2024	10:27:05 AM	7.96
917	12/03/2024 10:27:10	12/3/2024	10:27:10 AM	7.96
918	12/03/2024 10:27:15	12/3/2024	10:27:15 AM	7.96
919	12/03/2024 10:27:20	12/3/2024	10:27:20 AM	7.96
920	12/03/2024 10:27:25	12/3/2024	10:27:25 AM	7.96
921	12/03/2024 10:27:30	12/3/2024	10:27:30 AM	7.96
922	12/03/2024 10:27:35	12/3/2024	10:27:35 AM	7.96
923	12/03/2024 10:27:40	12/3/2024	10:27:40 AM	7.96
924	12/03/2024 10:27:45	12/3/2024	10:27:45 AM	7.96
925	12/03/2024 10:27:50	12/3/2024	10:27:50 AM	7.96
926	12/03/2024 10:27:55	12/3/2024	10:27:55 AM	7.96
927	12/03/2024 10:28:00	12/3/2024	10:28:00 AM	7.96
928	12/03/2024 10:28:05	12/3/2024	10:28:05 AM	7.96
929	12/03/2024 10:28:10	12/3/2024	10:28:10 AM	7.96
930	12/03/2024 10:28:15	12/3/2024	10:28:15 AM	7.96
931	12/03/2024 10:28:20	12/3/2024	10:28:20 AM	7.96
932	12/03/2024 10:28:25	12/3/2024	10:28:25 AM	7.96
933	12/03/2024 10:28:30	12/3/2024	10:28:30 AM	7.96

934	12/03/2024 10:28:35	12/3/2024	10:28:35 AM	7.97
935	12/03/2024 10:28:40	12/3/2024	10:28:40 AM	7.97
936	12/03/2024 10:28:45	12/3/2024	10:28:45 AM	7.97
937	12/03/2024 10:28:50	12/3/2024	10:28:50 AM	7.97
938	12/03/2024 10:28:55	12/3/2024	10:28:55 AM	7.97
939	12/03/2024 10:29:00	12/3/2024	10:29:00 AM	7.97
940	12/03/2024 10:29:05	12/3/2024	10:29:05 AM	7.97
941	12/03/2024 10:29:10	12/3/2024	10:29:10 AM	7.97
942	12/03/2024 10:29:15	12/3/2024	10:29:15 AM	7.97
943	12/03/2024 10:29:20	12/3/2024	10:29:20 AM	7.97
944	12/03/2024 10:29:25	12/3/2024	10:29:25 AM	7.97
945	12/03/2024 10:29:30	12/3/2024	10:29:30 AM	7.97
946	12/03/2024 10:29:35	12/3/2024	10:29:35 AM	7.97
947	12/03/2024 10:29:40	12/3/2024	10:29:40 AM	7.97
948	12/03/2024 10:29:45	12/3/2024	10:29:45 AM	7.97
949	12/03/2024 10:29:50	12/3/2024	10:29:50 AM	7.97
950	12/03/2024 10:29:55	12/3/2024	10:29:55 AM	7.97
951	12/03/2024 10:30:00	12/3/2024	10:30:00 AM	7.97
952	12/03/2024 10:30:05	12/3/2024	10:30:05 AM	7.97
953	12/03/2024 10:30:10	12/3/2024	10:30:10 AM	7.97
954	12/03/2024 10:30:15	12/3/2024	10:30:15 AM	7.97
955	12/03/2024 10:30:20	12/3/2024	10:30:20 AM	7.97
956	12/03/2024 10:30:25	12/3/2024	10:30:25 AM	7.97
957	12/03/2024 10:30:30	12/3/2024	10:30:30 AM	7.97
958	12/03/2024 10:30:35	12/3/2024	10:30:35 AM	7.97
959	12/03/2024 10:30:40	12/3/2024	10:30:40 AM	7.97
960	12/03/2024 10:30:45	12/3/2024	10:30:45 AM	7.97
961	12/03/2024 10:30:50	12/3/2024	10:30:50 AM	7.97
962	12/03/2024 10:30:55	12/3/2024	10:30:55 AM	7.97
963	12/03/2024 10:31:00	12/3/2024	10:31:00 AM	7.97
964	12/03/2024 10:31:05	12/3/2024	10:31:05 AM	7.97
965	12/03/2024 10:31:10	12/3/2024	10:31:10 AM	7.97
966	12/03/2024 10:31:15	12/3/2024	10:31:15 AM	7.97
967	12/03/2024 10:31:20	12/3/2024	10:31:20 AM	7.97
968	12/03/2024 10:31:25	12/3/2024	10:31:25 AM	7.98
969	12/03/2024 10:31:30	12/3/2024	10:31:30 AM	7.98
970	12/03/2024 10:31:35	12/3/2024	10:31:35 AM	7.98
971	12/03/2024 10:31:40	12/3/2024	10:31:40 AM	7.97
972	12/03/2024 10:31:45	12/3/2024	10:31:45 AM	7.97
973	12/03/2024 10:31:50	12/3/2024	10:31:50 AM	7.97
974	12/03/2024 10:31:55	12/3/2024	10:31:55 AM	7.98
975	12/03/2024 10:32:00	12/3/2024	10:32:00 AM	7.98
976	12/03/2024 10:32:05	12/3/2024	10:32:05 AM	7.98
977	12/03/2024 10:32:10	12/3/2024	10:32:10 AM	7.98
978	12/03/2024 10:32:15	12/3/2024	10:32:15 AM	7.98
979	12/03/2024 10:32:20	12/3/2024	10:32:20 AM	7.98
980	12/03/2024 10:32:25	12/3/2024	10:32:25 AM	7.98

981	12/03/2024 10:32:30	12/3/2024	10:32:30 AM	7.97
982	12/03/2024 10:32:35	12/3/2024	10:32:35 AM	7.97
983	12/03/2024 10:32:40	12/3/2024	10:32:40 AM	7.98
984	12/03/2024 10:32:45	12/3/2024	10:32:45 AM	7.97
985	12/03/2024 10:32:50	12/3/2024	10:32:50 AM	7.97
986	12/03/2024 10:32:55	12/3/2024	10:32:55 AM	7.97
987	12/03/2024 10:33:00	12/3/2024	10:33:00 AM	7.97
988	12/03/2024 10:33:05	12/3/2024	10:33:05 AM	7.97
989	12/03/2024 10:33:10	12/3/2024	10:33:10 AM	7.97
990	12/03/2024 10:33:15	12/3/2024	10:33:15 AM	7.97
991	12/03/2024 10:33:20	12/3/2024	10:33:20 AM	7.97
992	12/03/2024 10:33:25	12/3/2024	10:33:25 AM	7.97
993	12/03/2024 10:33:30	12/3/2024	10:33:30 AM	7.97
994	12/03/2024 10:33:35	12/3/2024	10:33:35 AM	7.97
995	12/03/2024 10:33:40	12/3/2024	10:33:40 AM	7.97
996	12/03/2024 10:33:45	12/3/2024	10:33:45 AM	7.97
997	12/03/2024 10:33:50	12/3/2024	10:33:50 AM	7.97
998	12/03/2024 10:33:55	12/3/2024	10:33:55 AM	7.97
999	12/03/2024 10:34:00	12/3/2024	10:34:00 AM	7.97
1000	12/03/2024 10:34:05	12/3/2024	10:34:05 AM	7.97
1001	12/03/2024 10:34:10	12/3/2024	10:34:10 AM	7.97
1002	12/03/2024 10:34:15	12/3/2024	10:34:15 AM	7.97
1003	12/03/2024 10:34:20	12/3/2024	10:34:20 AM	7.97
1004	12/03/2024 10:34:25	12/3/2024	10:34:25 AM	7.97
1005	12/03/2024 10:34:30	12/3/2024	10:34:30 AM	7.97
1006	12/03/2024 10:34:35	12/3/2024	10:34:35 AM	7.97
1007	12/03/2024 10:34:40	12/3/2024	10:34:40 AM	7.97
1008	12/03/2024 10:34:45	12/3/2024	10:34:45 AM	7.97
1009	12/03/2024 10:34:50	12/3/2024	10:34:50 AM	7.97
1010	12/03/2024 10:34:55	12/3/2024	10:34:55 AM	7.97
1011	12/03/2024 10:35:00	12/3/2024	10:35:00 AM	7.97
1012	12/03/2024 10:35:05	12/3/2024	10:35:05 AM	7.97
1013	12/03/2024 10:35:10	12/3/2024	10:35:10 AM	7.97
1014	12/03/2024 10:35:15	12/3/2024	10:35:15 AM	7.97
1015	12/03/2024 10:35:20	12/3/2024	10:35:20 AM	7.97
1016	12/03/2024 10:35:25	12/3/2024	10:35:25 AM	7.97
1017	12/03/2024 10:35:30	12/3/2024	10:35:30 AM	7.97
1018	12/03/2024 10:35:35	12/3/2024	10:35:35 AM	7.97
1019	12/03/2024 10:35:40	12/3/2024	10:35:40 AM	7.97
1020	12/03/2024 10:35:45	12/3/2024	10:35:45 AM	7.97
1021	12/03/2024 10:35:50	12/3/2024	10:35:50 AM	7.97
1022	12/03/2024 10:35:55	12/3/2024	10:35:55 AM	7.96
1023	12/03/2024 10:36:00	12/3/2024	10:36:00 AM	7.96
1024	12/03/2024 10:36:05	12/3/2024	10:36:05 AM	7.96
1025	12/03/2024 10:36:10	12/3/2024	10:36:10 AM	7.96
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1034	12/03/2024 10:36:55	12/3/2024	10:36:55 AM	7.96
1035	12/03/2024 10:37:00	12/3/2024	10:37:00 AM	7.96
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1067	12/03/2024 10:39:40	12/3/2024	10:39:40 AM	7.95
1068	12/03/2024 10:39:45	12/3/2024	10:39:45 AM	7.95
1069	12/03/2024 10:39:50	12/3/2024	10:39:50 AM	7.95
1070	12/03/2024 10:39:55	12/3/2024	10:39:55 AM	7.95
1071	12/03/2024 10:40:00	12/3/2024	10:40:00 AM	7.94
1072	12/03/2024 10:40:05	12/3/2024	10:40:05 AM	7.94
1073	12/03/2024 10:40:10	12/3/2024	10:40:10 AM	7.94
1074	12/03/2024 10:40:15	12/3/2024	10:40:15 AM	7.94

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1098	12/03/2024 10:42:15	12/3/2024	10:42:15 AM	7.93
1099	12/03/2024 10:42:20	12/3/2024	10:42:20 AM	7.93
1100	12/03/2024 10:42:25	12/3/2024	10:42:25 AM	7.93
1101	12/03/2024 10:42:30	12/3/2024	10:42:30 AM	7.93
1102	12/03/2024 10:42:35	12/3/2024	10:42:35 AM	7.93
1103	12/03/2024 10:42:40	12/3/2024	10:42:40 AM	7.93
1104	12/03/2024 10:42:45	12/3/2024	10:42:45 AM	7.93
1105	12/03/2024 10:42:50	12/3/2024	10:42:50 AM	7.93
1106	12/03/2024 10:42:55	12/3/2024	10:42:55 AM	7.93
1107	12/03/2024 10:43:00	12/3/2024	10:43:00 AM	7.93
1108	12/03/2024 10:43:05	12/3/2024	10:43:05 AM	7.93
1109	12/03/2024 10:43:10	12/3/2024	10:43:10 AM	7.93
1110	12/03/2024 10:43:15	12/3/2024	10:43:15 AM	7.93
1111	12/03/2024 10:43:20	12/3/2024	10:43:20 AM	7.93
1112	12/03/2024 10:43:25	12/3/2024	10:43:25 AM	7.93
1113	12/03/2024 10:43:30	12/3/2024	10:43:30 AM	7.93
1114	12/03/2024 10:43:35	12/3/2024	10:43:35 AM	7.93
1115	12/03/2024 10:43:40	12/3/2024	10:43:40 AM	7.93
1116	12/03/2024 10:43:45	12/3/2024	10:43:45 AM	7.93
1117	12/03/2024 10:43:50	12/3/2024	10:43:50 AM	7.93
1118	12/03/2024 10:43:55	12/3/2024	10:43:55 AM	7.93
1119	12/03/2024 10:44:00	12/3/2024	10:44:00 AM	7.93
1120	12/03/2024 10:44:05	12/3/2024	10:44:05 AM	7.93
1121	12/03/2024 10:44:10	12/3/2024	10:44:10 AM	7.93

1122	12/03/2024 10:44:15	12/3/2024	10:44:15 AM	7.93
1123	12/03/2024 10:44:20	12/3/2024	10:44:20 AM	7.93
1124	12/03/2024 10:44:25	12/3/2024	10:44:25 AM	7.93
1125	12/03/2024 10:44:30	12/3/2024	10:44:30 AM	7.93
1126	12/03/2024 10:44:35	12/3/2024	10:44:35 AM	7.93
1127	12/03/2024 10:44:40	12/3/2024	10:44:40 AM	7.93
1128	12/03/2024 10:44:45	12/3/2024	10:44:45 AM	7.93
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1165	12/03/2024 10:47:50	12/3/2024	10:47:50 AM	7.91
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1167	12/03/2024 10:48:00	12/3/2024	10:48:00 AM	7.91
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1183	12/03/2024 10:49:20	12/3/2024	10:49:20 AM	7.91
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1197	12/03/2024 10:50:30	12/3/2024	10:50:30 AM	7.90
1198	12/03/2024 10:50:35	12/3/2024	10:50:35 AM	7.90
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1207	12/03/2024 10:51:20	12/3/2024	10:51:20 AM	7.90
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1691	12/03/2024 11:31:40	12/3/2024	11:31:40 AM	7.82
1692	12/03/2024 11:31:45	12/3/2024	11:31:45 AM	7.82
1693	12/03/2024 11:31:50	12/3/2024	11:31:50 AM	7.82
1694	12/03/2024 11:31:55	12/3/2024	11:31:55 AM	7.82
1695	12/03/2024 11:32:00	12/3/2024	11:32:00 AM	7.82
1696	12/03/2024 11:32:05	12/3/2024	11:32:05 AM	7.82
1697	12/03/2024 11:32:10	12/3/2024	11:32:10 AM	7.82
1698	12/03/2024 11:32:15	12/3/2024	11:32:15 AM	7.82
1699	12/03/2024 11:32:20	12/3/2024	11:32:20 AM	7.82
1700	12/03/2024 11:32:25	12/3/2024	11:32:25 AM	7.82
1701	12/03/2024 11:32:30	12/3/2024	11:32:30 AM	7.82
1702	12/03/2024 11:32:35	12/3/2024	11:32:35 AM	7.82
1703	12/03/2024 11:32:40	12/3/2024	11:32:40 AM	7.82
1704	12/03/2024 11:32:45	12/3/2024	11:32:45 AM	7.82
1705	12/03/2024 11:32:50	12/3/2024	11:32:50 AM	7.82
1706	12/03/2024 11:32:55	12/3/2024	11:32:55 AM	7.82
1707	12/03/2024 11:33:00	12/3/2024	11:33:00 AM	7.82
1708	12/03/2024 11:33:05	12/3/2024	11:33:05 AM	7.82
1709	12/03/2024 11:33:10	12/3/2024	11:33:10 AM	7.82
1710	12/03/2024 11:33:15	12/3/2024	11:33:15 AM	7.82
1711	12/03/2024 11:33:20	12/3/2024	11:33:20 AM	7.82
1712	12/03/2024 11:33:25	12/3/2024	11:33:25 AM	7.82
1713	12/03/2024 11:33:30	12/3/2024	11:33:30 AM	7.82
1714	12/03/2024 11:33:35	12/3/2024	11:33:35 AM	7.82
1715	12/03/2024 11:33:40	12/3/2024	11:33:40 AM	7.82
1716	12/03/2024 11:33:45	12/3/2024	11:33:45 AM	7.82
1717	12/03/2024 11:33:50	12/3/2024	11:33:50 AM	7.82
1718	12/03/2024 11:33:55	12/3/2024	11:33:55 AM	7.82
1719	12/03/2024 11:34:00	12/3/2024	11:34:00 AM	7.82
1720	12/03/2024 11:34:05	12/3/2024	11:34:05 AM	7.82
1721	12/03/2024 11:34:10	12/3/2024	11:34:10 AM	7.82
1722	12/03/2024 11:34:15	12/3/2024	11:34:15 AM	7.82
1723	12/03/2024 11:34:20	12/3/2024	11:34:20 AM	7.82
1724	12/03/2024 11:34:25	12/3/2024	11:34:25 AM	7.82
1725	12/03/2024 11:34:30	12/3/2024	11:34:30 AM	7.82
1726	12/03/2024 11:34:35	12/3/2024	11:34:35 AM	7.82
1727	12/03/2024 11:34:40	12/3/2024	11:34:40 AM	7.82
1728	12/03/2024 11:34:45	12/3/2024	11:34:45 AM	7.82
1729	12/03/2024 11:34:50	12/3/2024	11:34:50 AM	7.82
1730	12/03/2024 11:34:55	12/3/2024	11:34:55 AM	7.81
1731	12/03/2024 11:35:00	12/3/2024	11:35:00 AM	7.81
1732	12/03/2024 11:35:05	12/3/2024	11:35:05 AM	7.81

1733	12/03/2024 11:35:10	12/3/2024	11:35:10 AM	7.81
1734	12/03/2024 11:35:15	12/3/2024	11:35:15 AM	7.81
1735	12/03/2024 11:35:20	12/3/2024	11:35:20 AM	7.81
1736	12/03/2024 11:35:25	12/3/2024	11:35:25 AM	7.81
1737	12/03/2024 11:35:30	12/3/2024	11:35:30 AM	7.81
1738	12/03/2024 11:35:35	12/3/2024	11:35:35 AM	7.81
1739	12/03/2024 11:35:40	12/3/2024	11:35:40 AM	7.81
1740	12/03/2024 11:35:45	12/3/2024	11:35:45 AM	7.81
1741	12/03/2024 11:35:50	12/3/2024	11:35:50 AM	7.81
1742	12/03/2024 11:35:55	12/3/2024	11:35:55 AM	7.81
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1752	12/03/2024 11:36:45	12/3/2024	11:36:45 AM	7.81
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1757	12/03/2024 11:37:10	12/3/2024	11:37:10 AM	7.81
1758	12/03/2024 11:37:15	12/3/2024	11:37:15 AM	7.81
1759	12/03/2024 11:37:20	12/3/2024	11:37:20 AM	7.81
1760	12/03/2024 11:37:25	12/3/2024	11:37:25 AM	7.81
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1763	12/03/2024 11:37:40	12/3/2024	11:37:40 AM	7.81
1764	12/03/2024 11:37:45	12/3/2024	11:37:45 AM	7.81
1765	12/03/2024 11:37:50	12/3/2024	11:37:50 AM	7.81
1766	12/03/2024 11:37:55	12/3/2024	11:37:55 AM	7.81
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1775	12/03/2024 11:38:40	12/3/2024	11:38:40 AM	7.81
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1778	12/03/2024 11:38:55	12/3/2024	11:38:55 AM	7.81
1779	12/03/2024 11:39:00	12/3/2024	11:39:00 AM	7.81

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1782	12/03/2024 11:39:15	12/3/2024	11:39:15 AM	7.81
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1796	12/03/2024 11:40:25	12/3/2024	11:40:25 AM	7.81
1797	12/03/2024 11:40:30	12/3/2024	11:40:30 AM	7.81
1798	12/03/2024 11:40:35	12/3/2024	11:40:35 AM	7.81
1799	12/03/2024 11:40:40	12/3/2024	11:40:40 AM	7.81
1800	12/03/2024 11:40:45	12/3/2024	11:40:45 AM	7.81
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1802	12/03/2024 11:40:55	12/3/2024	11:40:55 AM	7.81
1803	12/03/2024 11:41:00	12/3/2024	11:41:00 AM	7.81
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1805	12/03/2024 11:41:10	12/3/2024	11:41:10 AM	7.81
1806	12/03/2024 11:41:15	12/3/2024	11:41:15 AM	7.81
1807	12/03/2024 11:41:20	12/3/2024	11:41:20 AM	7.81
1808	12/03/2024 11:41:25	12/3/2024	11:41:25 AM	7.81
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1818	12/03/2024 11:42:15	12/3/2024	11:42:15 AM	7.80
1819	12/03/2024 11:42:20	12/3/2024	11:42:20 AM	7.80
1820	12/03/2024 11:42:25	12/3/2024	11:42:25 AM	7.80
1821	12/03/2024 11:42:30	12/3/2024	11:42:30 AM	7.80
1822	12/03/2024 11:42:35	12/3/2024	11:42:35 AM	7.80
1823	12/03/2024 11:42:40	12/3/2024	11:42:40 AM	7.80
1824	12/03/2024 11:42:45	12/3/2024	11:42:45 AM	7.80
1825	12/03/2024 11:42:50	12/3/2024	11:42:50 AM	7.80
1826	12/03/2024 11:42:55	12/3/2024	11:42:55 AM	7.80

1827	12/03/2024 11:43:00	12/3/2024	11:43:00 AM	7.80
1828	12/03/2024 11:43:05	12/3/2024	11:43:05 AM	7.80
1829	12/03/2024 11:43:10	12/3/2024	11:43:10 AM	7.80
1830	12/03/2024 11:43:15	12/3/2024	11:43:15 AM	7.80
1831	12/03/2024 11:43:20	12/3/2024	11:43:20 AM	7.80
1832	12/03/2024 11:43:25	12/3/2024	11:43:25 AM	7.80
1833	12/03/2024 11:43:30	12/3/2024	11:43:30 AM	7.80
1834	12/03/2024 11:43:35	12/3/2024	11:43:35 AM	7.80
1835	12/03/2024 11:43:40	12/3/2024	11:43:40 AM	7.80
1836	12/03/2024 11:43:45	12/3/2024	11:43:45 AM	7.80
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1841	12/03/2024 11:44:10	12/3/2024	11:44:10 AM	7.80
1842	12/03/2024 11:44:15	12/3/2024	11:44:15 AM	7.80
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1847	12/03/2024 11:44:40	12/3/2024	11:44:40 AM	7.80
1848	12/03/2024 11:44:45	12/3/2024	11:44:45 AM	7.80
1849	12/03/2024 11:44:50	12/3/2024	11:44:50 AM	7.80
1850	12/03/2024 11:44:55	12/3/2024	11:44:55 AM	7.80
1851	12/03/2024 11:45:00	12/3/2024	11:45:00 AM	7.80
1852	12/03/2024 11:45:05	12/3/2024	11:45:05 AM	7.80
1853	12/03/2024 11:45:10	12/3/2024	11:45:10 AM	7.80
1854	12/03/2024 11:45:15	12/3/2024	11:45:15 AM	7.80
1855	12/03/2024 11:45:20	12/3/2024	11:45:20 AM	7.80
1856	12/03/2024 11:45:25	12/3/2024	11:45:25 AM	7.80
1857	12/03/2024 11:45:30	12/3/2024	11:45:30 AM	7.80
1858	12/03/2024 11:45:35	12/3/2024	11:45:35 AM	7.80
1859	12/03/2024 11:45:40	12/3/2024	11:45:40 AM	7.80
1860	12/03/2024 11:45:45	12/3/2024	11:45:45 AM	7.80
1861	12/03/2024 11:45:50	12/3/2024	11:45:50 AM	7.80
1862	12/03/2024 11:45:55	12/3/2024	11:45:55 AM	7.80
1863	12/03/2024 11:46:00	12/3/2024	11:46:00 AM	7.80
1864	12/03/2024 11:46:05	12/3/2024	11:46:05 AM	7.80
1865	12/03/2024 11:46:10	12/3/2024	11:46:10 AM	7.80
1866	12/03/2024 11:46:15	12/3/2024	11:46:15 AM	7.80
1867	12/03/2024 11:46:20	12/3/2024	11:46:20 AM	7.80
1868	12/03/2024 11:46:25	12/3/2024	11:46:25 AM	7.80
1869	12/03/2024 11:46:30	12/3/2024	11:46:30 AM	7.80
1870	12/03/2024 11:46:35	12/3/2024	11:46:35 AM	7.80
1871	12/03/2024 11:46:40	12/3/2024	11:46:40 AM	7.80
1872	12/03/2024 11:46:45	12/3/2024	11:46:45 AM	7.80
1873	12/03/2024 11:46:50	12/3/2024	11:46:50 AM	7.80

1874	12/03/2024 11:46:55	12/3/2024	11:46:55 AM	7.80
1875	12/03/2024 11:47:00	12/3/2024	11:47:00 AM	7.80
1876	12/03/2024 11:47:05	12/3/2024	11:47:05 AM	7.80
1877	12/03/2024 11:47:10	12/3/2024	11:47:10 AM	7.80
1878	12/03/2024 11:47:15	12/3/2024	11:47:15 AM	7.80
1879	12/03/2024 11:47:20	12/3/2024	11:47:20 AM	7.80
1880	12/03/2024 11:47:25	12/3/2024	11:47:25 AM	7.80
1881	12/03/2024 11:47:30	12/3/2024	11:47:30 AM	7.80
1882	12/03/2024 11:47:35	12/3/2024	11:47:35 AM	7.80
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1884	12/03/2024 11:47:45	12/3/2024	11:47:45 AM	7.80
1885	12/03/2024 11:47:50	12/3/2024	11:47:50 AM	7.80
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1887	12/03/2024 11:48:00	12/3/2024	11:48:00 AM	7.80
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1893	12/03/2024 11:48:30	12/3/2024	11:48:30 AM	7.80
1894	12/03/2024 11:48:35	12/3/2024	11:48:35 AM	7.80
1895	12/03/2024 11:48:40	12/3/2024	11:48:40 AM	7.80
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1897	12/03/2024 11:48:50	12/3/2024	11:48:50 AM	7.80
1898	12/03/2024 11:48:55	12/3/2024	11:48:55 AM	7.80
1899	12/03/2024 11:49:00	12/3/2024	11:49:00 AM	7.80
1900	12/03/2024 11:49:05	12/3/2024	11:49:05 AM	7.80
1901	12/03/2024 11:49:10	12/3/2024	11:49:10 AM	7.80
1902	12/03/2024 11:49:15	12/3/2024	11:49:15 AM	7.80
1903	12/03/2024 11:49:20	12/3/2024	11:49:20 AM	7.80
1904	12/03/2024 11:49:25	12/3/2024	11:49:25 AM	7.80
1905	12/03/2024 11:49:30	12/3/2024	11:49:30 AM	7.80
1906	12/03/2024 11:49:35	12/3/2024	11:49:35 AM	7.80
1907	12/03/2024 11:49:40	12/3/2024	11:49:40 AM	7.79
1908	12/03/2024 11:49:45	12/3/2024	11:49:45 AM	7.79
1909	12/03/2024 11:49:50	12/3/2024	11:49:50 AM	7.79
1910	12/03/2024 11:49:55	12/3/2024	11:49:55 AM	7.79
1911	12/03/2024 11:50:00	12/3/2024	11:50:00 AM	7.79
1912	12/03/2024 11:50:05	12/3/2024	11:50:05 AM	7.79
1913	12/03/2024 11:50:10	12/3/2024	11:50:10 AM	7.79
1914	12/03/2024 11:50:15	12/3/2024	11:50:15 AM	7.79
1915	12/03/2024 11:50:20	12/3/2024	11:50:20 AM	7.79
1916	12/03/2024 11:50:25	12/3/2024	11:50:25 AM	7.79
1917	12/03/2024 11:50:30	12/3/2024	11:50:30 AM	7.79
1918	12/03/2024 11:50:35	12/3/2024	11:50:35 AM	7.79
1919	12/03/2024 11:50:40	12/3/2024	11:50:40 AM	7.79
1920	12/03/2024 11:50:45	12/3/2024	11:50:45 AM	7.79

1921	12/03/2024 11:50:50	12/3/2024	11:50:50 AM	7.79
1922	12/03/2024 11:50:55	12/3/2024	11:50:55 AM	7.79
1923	12/03/2024 11:51:00	12/3/2024	11:51:00 AM	7.79
1924	12/03/2024 11:51:05	12/3/2024	11:51:05 AM	7.79
1925	12/03/2024 11:51:10	12/3/2024	11:51:10 AM	7.79
1926	12/03/2024 11:51:15	12/3/2024	11:51:15 AM	7.79
1927	12/03/2024 11:51:20	12/3/2024	11:51:20 AM	7.79
1928	12/03/2024 11:51:25	12/3/2024	11:51:25 AM	7.79
1929	12/03/2024 11:51:30	12/3/2024	11:51:30 AM	7.79
1930	12/03/2024 11:51:35	12/3/2024	11:51:35 AM	7.79
1931	12/03/2024 11:51:40	12/3/2024	11:51:40 AM	7.79
1932	12/03/2024 11:51:45	12/3/2024	11:51:45 AM	7.79
1933	12/03/2024 11:51:50	12/3/2024	11:51:50 AM	7.79
1934	12/03/2024 11:51:55	12/3/2024	11:51:55 AM	7.79
1935	12/03/2024 11:52:00	12/3/2024	11:52:00 AM	7.79
1936	12/03/2024 11:52:05	12/3/2024	11:52:05 AM	7.79
1937	12/03/2024 11:52:10	12/3/2024	11:52:10 AM	7.79
1938	12/03/2024 11:52:15	12/3/2024	11:52:15 AM	7.79
1939	12/03/2024 11:52:20	12/3/2024	11:52:20 AM	7.79
1940	12/03/2024 11:52:25	12/3/2024	11:52:25 AM	7.79
1941	12/03/2024 11:52:30	12/3/2024	11:52:30 AM	7.79
1942	12/03/2024 11:52:35	12/3/2024	11:52:35 AM	7.79
1943	12/03/2024 11:52:40	12/3/2024	11:52:40 AM	7.79
1944	12/03/2024 11:52:45	12/3/2024	11:52:45 AM	7.79
1945	12/03/2024 11:52:50	12/3/2024	11:52:50 AM	7.79
1946	12/03/2024 11:52:55	12/3/2024	11:52:55 AM	7.79
1947	12/03/2024 11:53:00	12/3/2024	11:53:00 AM	7.79
1948	12/03/2024 11:53:05	12/3/2024	11:53:05 AM	7.79
1949	12/03/2024 11:53:10	12/3/2024	11:53:10 AM	7.79
1950	12/03/2024 11:53:15	12/3/2024	11:53:15 AM	7.79
1951	12/03/2024 11:53:20	12/3/2024	11:53:20 AM	7.79
1952	12/03/2024 11:53:25	12/3/2024	11:53:25 AM	7.79
1953	12/03/2024 11:53:30	12/3/2024	11:53:30 AM	7.79
1954	12/03/2024 11:53:35	12/3/2024	11:53:35 AM	7.79
1955	12/03/2024 11:53:40	12/3/2024	11:53:40 AM	7.79
1956	12/03/2024 11:53:45	12/3/2024	11:53:45 AM	7.79
1957	12/03/2024 11:53:50	12/3/2024	11:53:50 AM	7.79
1958	12/03/2024 11:53:55	12/3/2024	11:53:55 AM	7.79
1959	12/03/2024 11:54:00	12/3/2024	11:54:00 AM	7.79
1960	12/03/2024 11:54:05	12/3/2024	11:54:05 AM	7.79
1961	12/03/2024 11:54:10	12/3/2024	11:54:10 AM	7.79
1962	12/03/2024 11:54:15	12/3/2024	11:54:15 AM	7.79
1963	12/03/2024 11:54:20	12/3/2024	11:54:20 AM	7.79
1964	12/03/2024 11:54:25	12/3/2024	11:54:25 AM	7.79
1965	12/03/2024 11:54:30	12/3/2024	11:54:30 AM	7.79
1966	12/03/2024 11:54:35	12/3/2024	11:54:35 AM	7.79
1967	12/03/2024 11:54:40	12/3/2024	11:54:40 AM	7.79

1968	12/03/2024 11:54:45	12/3/2024	11:54:45 AM	7.79
1969	12/03/2024 11:54:50	12/3/2024	11:54:50 AM	7.79
1970	12/03/2024 11:54:55	12/3/2024	11:54:55 AM	7.79
1971	12/03/2024 11:55:00	12/3/2024	11:55:00 AM	7.79
1972	12/03/2024 11:55:05	12/3/2024	11:55:05 AM	7.79
1973	12/03/2024 11:55:10	12/3/2024	11:55:10 AM	7.79
1974	12/03/2024 11:55:15	12/3/2024	11:55:15 AM	7.79
1975	12/03/2024 11:55:20	12/3/2024	11:55:20 AM	7.79
1976	12/03/2024 11:55:25	12/3/2024	11:55:25 AM	7.79
1977	12/03/2024 11:55:30	12/3/2024	11:55:30 AM	7.79
1978	12/03/2024 11:55:35	12/3/2024	11:55:35 AM	7.79
1979	12/03/2024 11:55:40	12/3/2024	11:55:40 AM	7.79
1980	12/03/2024 11:55:45	12/3/2024	11:55:45 AM	7.79
1981	12/03/2024 11:55:50	12/3/2024	11:55:50 AM	7.79
1982	12/03/2024 11:55:55	12/3/2024	11:55:55 AM	7.79
1983	12/03/2024 11:56:00	12/3/2024	11:56:00 AM	7.79
1984	12/03/2024 11:56:05	12/3/2024	11:56:05 AM	7.79
1985	12/03/2024 11:56:10	12/3/2024	11:56:10 AM	7.79
1986	12/03/2024 11:56:15	12/3/2024	11:56:15 AM	7.79
1987	12/03/2024 11:56:20	12/3/2024	11:56:20 AM	7.79
1988	12/03/2024 11:56:25	12/3/2024	11:56:25 AM	7.79
1989	12/03/2024 11:56:30	12/3/2024	11:56:30 AM	7.79
1990	12/03/2024 11:56:35	12/3/2024	11:56:35 AM	7.79
1991	12/03/2024 11:56:40	12/3/2024	11:56:40 AM	7.79
1992	12/03/2024 11:56:45	12/3/2024	11:56:45 AM	7.79
1993	12/03/2024 11:56:50	12/3/2024	11:56:50 AM	7.79
1994	12/03/2024 11:56:55	12/3/2024	11:56:55 AM	7.79
1995	12/03/2024 11:57:00	12/3/2024	11:57:00 AM	7.79
1996	12/03/2024 11:57:05	12/3/2024	11:57:05 AM	7.79
1997	12/03/2024 11:57:10	12/3/2024	11:57:10 AM	7.79
1998	12/03/2024 11:57:15	12/3/2024	11:57:15 AM	7.79
1999	12/03/2024 11:57:20	12/3/2024	11:57:20 AM	7.79
2000	12/03/2024 11:57:25	12/3/2024	11:57:25 AM	7.79
2001	12/03/2024 11:57:30	12/3/2024	11:57:30 AM	7.79
2002	12/03/2024 11:57:35	12/3/2024	11:57:35 AM	7.79
2003	12/03/2024 11:57:40	12/3/2024	11:57:40 AM	7.79
2004	12/03/2024 11:57:45	12/3/2024	11:57:45 AM	7.79
2005	12/03/2024 11:57:50	12/3/2024	11:57:50 AM	7.79
2006	12/03/2024 11:57:55	12/3/2024	11:57:55 AM	7.79
2007	12/03/2024 11:58:00	12/3/2024	11:58:00 AM	7.79
2008	12/03/2024 11:58:05	12/3/2024	11:58:05 AM	7.79
2009	12/03/2024 11:58:10	12/3/2024	11:58:10 AM	7.78
2010	12/03/2024 11:58:15	12/3/2024	11:58:15 AM	7.79
2011	12/03/2024 11:58:20	12/3/2024	11:58:20 AM	7.78
2012	12/03/2024 11:58:25	12/3/2024	11:58:25 AM	7.78
2013	12/03/2024 11:58:30	12/3/2024	11:58:30 AM	7.78
2014	12/03/2024 11:58:35	12/3/2024	11:58:35 AM	7.78

2015	12/03/2024 11:58:40	12/3/2024	11:58:40 AM	7.78
2016	12/03/2024 11:58:45	12/3/2024	11:58:45 AM	7.78
2017	12/03/2024 11:58:50	12/3/2024	11:58:50 AM	7.78
2018	12/03/2024 11:58:55	12/3/2024	11:58:55 AM	7.78
2019	12/03/2024 11:59:00	12/3/2024	11:59:00 AM	7.78
2020	12/03/2024 11:59:05	12/3/2024	11:59:05 AM	7.78
2021	12/03/2024 11:59:10	12/3/2024	11:59:10 AM	7.78
2022	12/03/2024 11:59:15	12/3/2024	11:59:15 AM	7.78
2023	12/03/2024 11:59:20	12/3/2024	11:59:20 AM	7.78
2024	12/03/2024 11:59:25	12/3/2024	11:59:25 AM	7.78
2025	12/03/2024 11:59:30	12/3/2024	11:59:30 AM	7.78
2026	12/03/2024 11:59:35	12/3/2024	11:59:35 AM	7.78
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2028	12/03/2024 11:59:45	12/3/2024	11:59:45 AM	7.78
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2030	12/03/2024 11:59:55	12/3/2024	11:59:55 AM	7.78
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2036	12/03/2024 12:00:25	12/3/2024	12:00:25 PM	7.78
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2039	12/03/2024 12:00:40	12/3/2024	12:00:40 PM	7.78
2040	12/03/2024 12:00:45	12/3/2024	12:00:45 PM	7.78
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2045	12/03/2024 12:01:10	12/3/2024	12:01:10 PM	7.78
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2051	12/03/2024 12:01:40	12/3/2024	12:01:40 PM	7.78
2052	12/03/2024 12:01:45	12/3/2024	12:01:45 PM	7.78
2053	12/03/2024 12:01:50	12/3/2024	12:01:50 PM	7.78
2054	12/03/2024 12:01:55	12/3/2024	12:01:55 PM	7.78
2055	12/03/2024 12:02:00	12/3/2024	12:02:00 PM	7.78
2056	12/03/2024 12:02:05	12/3/2024	12:02:05 PM	7.78
2057	12/03/2024 12:02:10	12/3/2024	12:02:10 PM	7.78
2058	12/03/2024 12:02:15	12/3/2024	12:02:15 PM	7.78
2059	12/03/2024 12:02:20	12/3/2024	12:02:20 PM	7.78
2060	12/03/2024 12:02:25	12/3/2024	12:02:25 PM	7.78
2061	12/03/2024 12:02:30	12/3/2024	12:02:30 PM	7.78

2062	12/03/2024 12:02:35	12/3/2024	12:02:35 PM	7.78
2063	12/03/2024 12:02:40	12/3/2024	12:02:40 PM	7.78
2064	12/03/2024 12:02:45	12/3/2024	12:02:45 PM	7.78
2065	12/03/2024 12:02:50	12/3/2024	12:02:50 PM	7.78
2066	12/03/2024 12:02:55	12/3/2024	12:02:55 PM	7.78
2067	12/03/2024 12:03:00	12/3/2024	12:03:00 PM	7.78
2068	12/03/2024 12:03:05	12/3/2024	12:03:05 PM	7.78
2069	12/03/2024 12:03:10	12/3/2024	12:03:10 PM	7.78
2070	12/03/2024 12:03:15	12/3/2024	12:03:15 PM	7.78
2071	12/03/2024 12:03:20	12/3/2024	12:03:20 PM	7.78
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2073	12/03/2024 12:03:30	12/3/2024	12:03:30 PM	7.78
2074	12/03/2024 12:03:35	12/3/2024	12:03:35 PM	7.78
2075	12/03/2024 12:03:40	12/3/2024	12:03:40 PM	7.78
2076	12/03/2024 12:03:45	12/3/2024	12:03:45 PM	7.78
2077	12/03/2024 12:03:50	12/3/2024	12:03:50 PM	7.78
2078	12/03/2024 12:03:55	12/3/2024	12:03:55 PM	7.78
2079	12/03/2024 12:04:00	12/3/2024	12:04:00 PM	7.78
2080	12/03/2024 12:04:05	12/3/2024	12:04:05 PM	7.78
2081	12/03/2024 12:04:10	12/3/2024	12:04:10 PM	7.78
2082	12/03/2024 12:04:15	12/3/2024	12:04:15 PM	7.78
2083	12/03/2024 12:04:20	12/3/2024	12:04:20 PM	7.78
2084	12/03/2024 12:04:25	12/3/2024	12:04:25 PM	7.78
2085	12/03/2024 12:04:30	12/3/2024	12:04:30 PM	7.78
2086	12/03/2024 12:04:35	12/3/2024	12:04:35 PM	7.78
2087	12/03/2024 12:04:40	12/3/2024	12:04:40 PM	7.78
2088	12/03/2024 12:04:45	12/3/2024	12:04:45 PM	7.78
2089	12/03/2024 12:04:50	12/3/2024	12:04:50 PM	7.78
2090	12/03/2024 12:04:55	12/3/2024	12:04:55 PM	7.78
2091	12/03/2024 12:05:00	12/3/2024	12:05:00 PM	7.78
2092	12/03/2024 12:05:05	12/3/2024	12:05:05 PM	7.78
2093	12/03/2024 12:05:10	12/3/2024	12:05:10 PM	7.78
2094	12/03/2024 12:05:15	12/3/2024	12:05:15 PM	7.78
2095	12/03/2024 12:05:20	12/3/2024	12:05:20 PM	7.78
2096	12/03/2024 12:05:25	12/3/2024	12:05:25 PM	7.78
2097	12/03/2024 12:05:30	12/3/2024	12:05:30 PM	7.78
2098	12/03/2024 12:05:35	12/3/2024	12:05:35 PM	7.78
2099	12/03/2024 12:05:40	12/3/2024	12:05:40 PM	7.78
2100	12/03/2024 12:05:45	12/3/2024	12:05:45 PM	7.78
2101	12/03/2024 12:05:50	12/3/2024	12:05:50 PM	7.78
2102	12/03/2024 12:05:55	12/3/2024	12:05:55 PM	7.78
2103	12/03/2024 12:06:00	12/3/2024	12:06:00 PM	7.78
2104	12/03/2024 12:06:05	12/3/2024	12:06:05 PM	7.78
2105	12/03/2024 12:06:10	12/3/2024	12:06:10 PM	7.78
2106	12/03/2024 12:06:15	12/3/2024	12:06:15 PM	7.78
2107	12/03/2024 12:06:20	12/3/2024	12:06:20 PM	7.78
2108	12/03/2024 12:06:25	12/3/2024	12:06:25 PM	7.78

2109	12/03/2024 12:06:30	12/3/2024	12:06:30 PM	7.78
2110	12/03/2024 12:06:35	12/3/2024	12:06:35 PM	7.78
2111	12/03/2024 12:06:40	12/3/2024	12:06:40 PM	7.78
2112	12/03/2024 12:06:45	12/3/2024	12:06:45 PM	7.78
2113	12/03/2024 12:06:50	12/3/2024	12:06:50 PM	7.78
2114	12/03/2024 12:06:55	12/3/2024	12:06:55 PM	7.78
2115	12/03/2024 12:07:00	12/3/2024	12:07:00 PM	7.78
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2126	12/03/2024 12:07:55	12/3/2024	12:07:55 PM	7.78
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2136	12/03/2024 12:08:45	12/3/2024	12:08:45 PM	7.77
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2141	12/03/2024 12:09:10	12/3/2024	12:09:10 PM	7.77
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2152	12/03/2024 12:10:05	12/3/2024	12:10:05 PM	7.77
2153	12/03/2024 12:10:10	12/3/2024	12:10:10 PM	7.77
2154	12/03/2024 12:10:15	12/3/2024	12:10:15 PM	7.77
2155	12/03/2024 12:10:20	12/3/2024	12:10:20 PM	7.77

2156	12/03/2024 12:10:25	12/3/2024	12:10:25 PM	7.77
2157	12/03/2024 12:10:30	12/3/2024	12:10:30 PM	7.77
2158	12/03/2024 12:10:35	12/3/2024	12:10:35 PM	7.77
2159	12/03/2024 12:10:40	12/3/2024	12:10:40 PM	7.77
2160	12/03/2024 12:10:45	12/3/2024	12:10:45 PM	7.77
2161	12/03/2024 12:10:50	12/3/2024	12:10:50 PM	7.77
2162	12/03/2024 12:10:55	12/3/2024	12:10:55 PM	7.77
2163	12/03/2024 12:11:00	12/3/2024	12:11:00 PM	7.77
2164	12/03/2024 12:11:05	12/3/2024	12:11:05 PM	7.77
2165	12/03/2024 12:11:10	12/3/2024	12:11:10 PM	7.77
2166	12/03/2024 12:11:15	12/3/2024	12:11:15 PM	7.77
2167	12/03/2024 12:11:20	12/3/2024	12:11:20 PM	7.77
2168	12/03/2024 12:11:25	12/3/2024	12:11:25 PM	7.77
2169	12/03/2024 12:11:30	12/3/2024	12:11:30 PM	7.77
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2390	12/03/2024 12:29:55	12/3/2024	12:29:55 PM	7.76

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2883	12/03/2024 13:11:00	12/3/2024	1:11:00 PM	7.74
2884	12/03/2024 13:11:05	12/3/2024	1:11:05 PM	7.74
2885	12/03/2024 13:11:10	12/3/2024	1:11:10 PM	7.74
2886	12/03/2024 13:11:15	12/3/2024	1:11:15 PM	7.74
2887	12/03/2024 13:11:20	12/3/2024	1:11:20 PM	7.74
2888	12/03/2024 13:11:25	12/3/2024	1:11:25 PM	7.74
2889	12/03/2024 13:11:30	12/3/2024	1:11:30 PM	7.74
2890	12/03/2024 13:11:35	12/3/2024	1:11:35 PM	7.74
2891	12/03/2024 13:11:40	12/3/2024	1:11:40 PM	7.74
2892	12/03/2024 13:11:45	12/3/2024	1:11:45 PM	7.74
2893	12/03/2024 13:11:50	12/3/2024	1:11:50 PM	7.74
2894	12/03/2024 13:11:55	12/3/2024	1:11:55 PM	7.74
2895	12/03/2024 13:12:00	12/3/2024	1:12:00 PM	7.74
2896	12/03/2024 13:12:05	12/3/2024	1:12:05 PM	7.74
2897	12/03/2024 13:12:10	12/3/2024	1:12:10 PM	7.74
2898	12/03/2024 13:12:15	12/3/2024	1:12:15 PM	7.74
2899	12/03/2024 13:12:20	12/3/2024	1:12:20 PM	7.74
2900	12/03/2024 13:12:25	12/3/2024	1:12:25 PM	7.74
2901	12/03/2024 13:12:30	12/3/2024	1:12:30 PM	7.74
2902	12/03/2024 13:12:35	12/3/2024	1:12:35 PM	7.74
2903	12/03/2024 13:12:40	12/3/2024	1:12:40 PM	7.74
2904	12/03/2024 13:12:45	12/3/2024	1:12:45 PM	7.74
2905	12/03/2024 13:12:50	12/3/2024	1:12:50 PM	7.74
2906	12/03/2024 13:12:55	12/3/2024	1:12:55 PM	7.74
2907	12/03/2024 13:13:00	12/3/2024	1:13:00 PM	7.74

2908	12/03/2024 13:13:05	12/3/2024	1:13:05 PM	7.74
2909	12/03/2024 13:13:10	12/3/2024	1:13:10 PM	7.73
2910	12/03/2024 13:13:15	12/3/2024	1:13:15 PM	7.73
2911	12/03/2024 13:13:20	12/3/2024	1:13:20 PM	7.73
2912	12/03/2024 13:13:25	12/3/2024	1:13:25 PM	7.74
2913	12/03/2024 13:13:30	12/3/2024	1:13:30 PM	7.73
2914	12/03/2024 13:13:35	12/3/2024	1:13:35 PM	7.73
2915	12/03/2024 13:13:40	12/3/2024	1:13:40 PM	7.73
2916	12/03/2024 13:13:45	12/3/2024	1:13:45 PM	7.74
2917	12/03/2024 13:13:50	12/3/2024	1:13:50 PM	7.73
2918	12/03/2024 13:13:55	12/3/2024	1:13:55 PM	7.73
2919	12/03/2024 13:14:00	12/3/2024	1:14:00 PM	7.73
2920	12/03/2024 13:14:05	12/3/2024	1:14:05 PM	7.73
2921	12/03/2024 13:14:10	12/3/2024	1:14:10 PM	7.73
2922	12/03/2024 13:14:15	12/3/2024	1:14:15 PM	7.73
2923	12/03/2024 13:14:20	12/3/2024	1:14:20 PM	7.73
2924	12/03/2024 13:14:25	12/3/2024	1:14:25 PM	7.73
2925	12/03/2024 13:14:30	12/3/2024	1:14:30 PM	7.73
2926	12/03/2024 13:14:35	12/3/2024	1:14:35 PM	7.73
2927	12/03/2024 13:14:40	12/3/2024	1:14:40 PM	7.73
2928	12/03/2024 13:14:45	12/3/2024	1:14:45 PM	7.73
2929	12/03/2024 13:14:50	12/3/2024	1:14:50 PM	7.73
2930	12/03/2024 13:14:55	12/3/2024	1:14:55 PM	7.73
2931	12/03/2024 13:15:00	12/3/2024	1:15:00 PM	7.73
2932	12/03/2024 13:15:05	12/3/2024	1:15:05 PM	7.73
2933	12/03/2024 13:15:10	12/3/2024	1:15:10 PM	7.73
2934	12/03/2024 13:15:15	12/3/2024	1:15:15 PM	7.73
2935	12/03/2024 13:15:20	12/3/2024	1:15:20 PM	7.73
2936	12/03/2024 13:15:25	12/3/2024	1:15:25 PM	7.73
2937	12/03/2024 13:15:30	12/3/2024	1:15:30 PM	7.73
2938	12/03/2024 13:15:35	12/3/2024	1:15:35 PM	7.73
2939	12/03/2024 13:15:40	12/3/2024	1:15:40 PM	7.73
2940	12/03/2024 13:15:45	12/3/2024	1:15:45 PM	7.73
2941	12/03/2024 13:15:50	12/3/2024	1:15:50 PM	7.73
2942	12/03/2024 13:15:55	12/3/2024	1:15:55 PM	7.73
2943	12/03/2024 13:16:00	12/3/2024	1:16:00 PM	7.73
2944	12/03/2024 13:16:05	12/3/2024	1:16:05 PM	7.73
2945	12/03/2024 13:16:10	12/3/2024	1:16:10 PM	7.73
2946	12/03/2024 13:16:15	12/3/2024	1:16:15 PM	7.73
2947	12/03/2024 13:16:20	12/3/2024	1:16:20 PM	7.73
2948	12/03/2024 13:16:25	12/3/2024	1:16:25 PM	7.73
2949	12/03/2024 13:16:30	12/3/2024	1:16:30 PM	7.73
2950	12/03/2024 13:16:35	12/3/2024	1:16:35 PM	7.73
2951	12/03/2024 13:16:40	12/3/2024	1:16:40 PM	7.73
2952	12/03/2024 13:16:45	12/3/2024	1:16:45 PM	7.73
2953	12/03/2024 13:16:50	12/3/2024	1:16:50 PM	7.73
2954	12/03/2024 13:16:55	12/3/2024	1:16:55 PM	7.73

2955	12/03/2024 13:17:00	12/3/2024	1:17:00 PM	7.73
2956	12/03/2024 13:17:05	12/3/2024	1:17:05 PM	7.73
2957	12/03/2024 13:17:10	12/3/2024	1:17:10 PM	7.73
2958	12/03/2024 13:17:15	12/3/2024	1:17:15 PM	7.73
2959	12/03/2024 13:17:20	12/3/2024	1:17:20 PM	7.73
2960	12/03/2024 13:17:25	12/3/2024	1:17:25 PM	7.73
2961	12/03/2024 13:17:30	12/3/2024	1:17:30 PM	7.73
2962	12/03/2024 13:17:35	12/3/2024	1:17:35 PM	7.73
2963	12/03/2024 13:17:40	12/3/2024	1:17:40 PM	7.73
2964	12/03/2024 13:17:45	12/3/2024	1:17:45 PM	7.73
2965	12/03/2024 13:17:50	12/3/2024	1:17:50 PM	7.73
2966	12/03/2024 13:17:55	12/3/2024	1:17:55 PM	7.73
2967	12/03/2024 13:18:00	12/3/2024	1:18:00 PM	7.73
2968	12/03/2024 13:18:05	12/3/2024	1:18:05 PM	7.73
2969	12/03/2024 13:18:10	12/3/2024	1:18:10 PM	7.73
2970	12/03/2024 13:18:15	12/3/2024	1:18:15 PM	7.73
2971	12/03/2024 13:18:20	12/3/2024	1:18:20 PM	7.73
2972	12/03/2024 13:18:25	12/3/2024	1:18:25 PM	7.73
2973	12/03/2024 13:18:30	12/3/2024	1:18:30 PM	7.73
2974	12/03/2024 13:18:35	12/3/2024	1:18:35 PM	7.73
2975	12/03/2024 13:18:40	12/3/2024	1:18:40 PM	7.73
2976	12/03/2024 13:18:45	12/3/2024	1:18:45 PM	7.73
2977	12/03/2024 13:18:50	12/3/2024	1:18:50 PM	7.73
2978	12/03/2024 13:18:55	12/3/2024	1:18:55 PM	7.73
2979	12/03/2024 13:19:00	12/3/2024	1:19:00 PM	7.73
2980	12/03/2024 13:19:05	12/3/2024	1:19:05 PM	7.73
2981	12/03/2024 13:19:10	12/3/2024	1:19:10 PM	7.73
2982	12/03/2024 13:19:15	12/3/2024	1:19:15 PM	7.73
2983	12/03/2024 13:19:20	12/3/2024	1:19:20 PM	7.73
2984	12/03/2024 13:19:25	12/3/2024	1:19:25 PM	7.73
2985	12/03/2024 13:19:30	12/3/2024	1:19:30 PM	7.73
2986	12/03/2024 13:19:35	12/3/2024	1:19:35 PM	7.73
2987	12/03/2024 13:19:40	12/3/2024	1:19:40 PM	7.73
2988	12/03/2024 13:19:45	12/3/2024	1:19:45 PM	7.73
2989	12/03/2024 13:19:50	12/3/2024	1:19:50 PM	7.73
2990	12/03/2024 13:19:55	12/3/2024	1:19:55 PM	7.73
2991	12/03/2024 13:20:00	12/3/2024	1:20:00 PM	7.73
2992	12/03/2024 13:20:05	12/3/2024	1:20:05 PM	7.73
2993	12/03/2024 13:20:10	12/3/2024	1:20:10 PM	7.73
2994	12/03/2024 13:20:15	12/3/2024	1:20:15 PM	7.73
2995	12/03/2024 13:20:20	12/3/2024	1:20:20 PM	7.73
2996	12/03/2024 13:20:25	12/3/2024	1:20:25 PM	7.73
2997	12/03/2024 13:20:30	12/3/2024	1:20:30 PM	7.73
2998	12/03/2024 13:20:35	12/3/2024	1:20:35 PM	7.73
2999	12/03/2024 13:20:40	12/3/2024	1:20:40 PM	7.73
3000	12/03/2024 13:20:45	12/3/2024	1:20:45 PM	7.73
3001	12/03/2024 13:20:50	12/3/2024	1:20:50 PM	7.73

3002	12/03/2024 13:20:55	12/3/2024	1:20:55 PM	7.74
3003	12/03/2024 13:21:00	12/3/2024	1:21:00 PM	7.74
3004	12/03/2024 13:21:05	12/3/2024	1:21:05 PM	7.73
3005	12/03/2024 13:21:10	12/3/2024	1:21:10 PM	7.73
3006	12/03/2024 13:21:15	12/3/2024	1:21:15 PM	7.74
3007	12/03/2024 13:21:20	12/3/2024	1:21:20 PM	7.73
3008	12/03/2024 13:21:25	12/3/2024	1:21:25 PM	7.73
3009	12/03/2024 13:21:30	12/3/2024	1:21:30 PM	7.73
3010	12/03/2024 13:21:35	12/3/2024	1:21:35 PM	7.73
3011	12/03/2024 13:21:40	12/3/2024	1:21:40 PM	7.73
3012	12/03/2024 13:21:45	12/3/2024	1:21:45 PM	7.73
3013	12/03/2024 13:21:50	12/3/2024	1:21:50 PM	7.73
3014	12/03/2024 13:21:55	12/3/2024	1:21:55 PM	7.73
3015	12/03/2024 13:22:00	12/3/2024	1:22:00 PM	7.73
3016	12/03/2024 13:22:05	12/3/2024	1:22:05 PM	7.73
3017	12/03/2024 13:22:10	12/3/2024	1:22:10 PM	7.73
3018	12/03/2024 13:22:15	12/3/2024	1:22:15 PM	7.73
3019	12/03/2024 13:22:20	12/3/2024	1:22:20 PM	7.73
3020	12/03/2024 13:22:25	12/3/2024	1:22:25 PM	7.73
3021	12/03/2024 13:22:30	12/3/2024	1:22:30 PM	7.73
3022	12/03/2024 13:22:35	12/3/2024	1:22:35 PM	7.73
3023	12/03/2024 13:22:40	12/3/2024	1:22:40 PM	7.73
3024	12/03/2024 13:22:45	12/3/2024	1:22:45 PM	7.73
3025	12/03/2024 13:22:50	12/3/2024	1:22:50 PM	7.73
3026	12/03/2024 13:22:55	12/3/2024	1:22:55 PM	7.73
3027	12/03/2024 13:23:00	12/3/2024	1:23:00 PM	7.73
3028	12/03/2024 13:23:05	12/3/2024	1:23:05 PM	7.73
3029	12/03/2024 13:23:10	12/3/2024	1:23:10 PM	7.73
3030	12/03/2024 13:23:15	12/3/2024	1:23:15 PM	7.73
3031	12/03/2024 13:23:20	12/3/2024	1:23:20 PM	7.73
3032	12/03/2024 13:23:25	12/3/2024	1:23:25 PM	7.73
3033	12/03/2024 13:23:30	12/3/2024	1:23:30 PM	7.73
3034	12/03/2024 13:23:35	12/3/2024	1:23:35 PM	7.73
3035	12/03/2024 13:23:40	12/3/2024	1:23:40 PM	7.73
3036	12/03/2024 13:23:45	12/3/2024	1:23:45 PM	7.73
3037	12/03/2024 13:23:50	12/3/2024	1:23:50 PM	7.73
3038	12/03/2024 13:23:55	12/3/2024	1:23:55 PM	7.73
3039	12/03/2024 13:24:00	12/3/2024	1:24:00 PM	7.73
3040	12/03/2024 13:24:05	12/3/2024	1:24:05 PM	7.73
3041	12/03/2024 13:24:10	12/3/2024	1:24:10 PM	7.73
3042	12/03/2024 13:24:15	12/3/2024	1:24:15 PM	7.73
3043	12/03/2024 13:24:20	12/3/2024	1:24:20 PM	7.73
3044	12/03/2024 13:24:25	12/3/2024	1:24:25 PM	7.73
3045	12/03/2024 13:24:30	12/3/2024	1:24:30 PM	7.73
3046	12/03/2024 13:24:35	12/3/2024	1:24:35 PM	7.73
3047	12/03/2024 13:24:40	12/3/2024	1:24:40 PM	7.73
3048	12/03/2024 13:24:45	12/3/2024	1:24:45 PM	7.73

3049	12/03/2024 13:24:50	12/3/2024	1:24:50 PM	7.73
3050	12/03/2024 13:24:55	12/3/2024	1:24:55 PM	7.73
3051	12/03/2024 13:25:00	12/3/2024	1:25:00 PM	7.73
3052	12/03/2024 13:25:05	12/3/2024	1:25:05 PM	7.73
3053	12/03/2024 13:25:10	12/3/2024	1:25:10 PM	7.73
3054	12/03/2024 13:25:15	12/3/2024	1:25:15 PM	7.73
3055	12/03/2024 13:25:20	12/3/2024	1:25:20 PM	7.73
3056	12/03/2024 13:25:25	12/3/2024	1:25:25 PM	7.73
3057	12/03/2024 13:25:30	12/3/2024	1:25:30 PM	7.73
3058	12/03/2024 13:25:35	12/3/2024	1:25:35 PM	7.73
3059	12/03/2024 13:25:40	12/3/2024	1:25:40 PM	7.73
3060	12/03/2024 13:25:45	12/3/2024	1:25:45 PM	7.73
3061	12/03/2024 13:25:50	12/3/2024	1:25:50 PM	7.73
3062	12/03/2024 13:25:55	12/3/2024	1:25:55 PM	7.73
3063	12/03/2024 13:26:00	12/3/2024	1:26:00 PM	7.73
3064	12/03/2024 13:26:05	12/3/2024	1:26:05 PM	7.73
3065	12/03/2024 13:26:10	12/3/2024	1:26:10 PM	7.73
3066	12/03/2024 13:26:15	12/3/2024	1:26:15 PM	7.73
3067	12/03/2024 13:26:20	12/3/2024	1:26:20 PM	7.73
3068	12/03/2024 13:26:25	12/3/2024	1:26:25 PM	7.73
3069	12/03/2024 13:26:30	12/3/2024	1:26:30 PM	7.73
3070	12/03/2024 13:26:35	12/3/2024	1:26:35 PM	7.73
3071	12/03/2024 13:26:40	12/3/2024	1:26:40 PM	7.73
3072	12/03/2024 13:26:45	12/3/2024	1:26:45 PM	7.73
3073	12/03/2024 13:26:50	12/3/2024	1:26:50 PM	7.73
3074	12/03/2024 13:26:55	12/3/2024	1:26:55 PM	7.73
3075	12/03/2024 13:27:00	12/3/2024	1:27:00 PM	7.73
3076	12/03/2024 13:27:05	12/3/2024	1:27:05 PM	7.73
3077	12/03/2024 13:27:10	12/3/2024	1:27:10 PM	7.73
3078	12/03/2024 13:27:15	12/3/2024	1:27:15 PM	7.73
3079	12/03/2024 13:27:20	12/3/2024	1:27:20 PM	7.73
3080	12/03/2024 13:27:25	12/3/2024	1:27:25 PM	7.73
3081	12/03/2024 13:27:30	12/3/2024	1:27:30 PM	7.73
3082	12/03/2024 13:27:35	12/3/2024	1:27:35 PM	7.73
3083	12/03/2024 13:27:40	12/3/2024	1:27:40 PM	7.73
3084	12/03/2024 13:27:45	12/3/2024	1:27:45 PM	7.73
3085	12/03/2024 13:27:50	12/3/2024	1:27:50 PM	7.73
3086	12/03/2024 13:27:55	12/3/2024	1:27:55 PM	7.73
3087	12/03/2024 13:28:00	12/3/2024	1:28:00 PM	7.73

HOBO 5 MIN EXPOSURE

#	Date-Time (PST)	Date	Time	Surface HOBO pH (pH)
843	12/03/2024 10:21:00	12/3/2024	10:21:00 AM	7.70
844	12/03/2024 10:21:05	12/3/2024	10:21:05 AM	7.70
845	12/03/2024 10:21:10	12/3/2024	10:21:10 AM	7.70
846	12/03/2024 10:21:15	12/3/2024	10:21:15 AM	7.70
847	12/03/2024 10:21:20	12/3/2024	10:21:20 AM	7.70
848	12/03/2024 10:21:25	12/3/2024	10:21:25 AM	7.70
849	12/03/2024 10:21:30	12/3/2024	10:21:30 AM	7.70
850	12/03/2024 10:21:35	12/3/2024	10:21:35 AM	7.70
851	12/03/2024 10:21:40	12/3/2024	10:21:40 AM	7.70
852	12/03/2024 10:21:45	12/3/2024	10:21:45 AM	7.70
853	12/03/2024 10:21:50	12/3/2024	10:21:50 AM	7.70
854	12/03/2024 10:21:55	12/3/2024	10:21:55 AM	7.70
855	12/03/2024 10:22:00	12/3/2024	10:22:00 AM	7.70
856	12/03/2024 10:22:05	12/3/2024	10:22:05 AM	7.70
857	12/03/2024 10:22:10	12/3/2024	10:22:10 AM	7.70
858	12/03/2024 10:22:15	12/3/2024	10:22:15 AM	7.70
859	12/03/2024 10:22:20	12/3/2024	10:22:20 AM	7.70
860	12/03/2024 10:22:25	12/3/2024	10:22:25 AM	7.70
861	12/03/2024 10:22:30	12/3/2024	10:22:30 AM	7.73
862	12/03/2024 10:22:35	12/3/2024	10:22:35 AM	7.79
863	12/03/2024 10:22:40	12/3/2024	10:22:40 AM	7.82
864	12/03/2024 10:22:45	12/3/2024	10:22:45 AM	7.87
865	12/03/2024 10:22:50	12/3/2024	10:22:50 AM	7.88
866	12/03/2024 10:22:55	12/3/2024	10:22:55 AM	7.90
867	12/03/2024 10:23:00	12/3/2024	10:23:00 AM	7.92
868	12/03/2024 10:23:05	12/3/2024	10:23:05 AM	7.93
869	12/03/2024 10:23:10	12/3/2024	10:23:10 AM	7.95
870	12/03/2024 10:23:15	12/3/2024	10:23:15 AM	7.96
871	12/03/2024 10:23:20	12/3/2024	10:23:20 AM	7.96
872	12/03/2024 10:23:25	12/3/2024	10:23:25 AM	7.98
873	12/03/2024 10:23:30	12/3/2024	10:23:30 AM	7.99
874	12/03/2024 10:23:35	12/3/2024	10:23:35 AM	8.00
875	12/03/2024 10:23:40	12/3/2024	10:23:40 AM	8.00
876	12/03/2024 10:23:45	12/3/2024	10:23:45 AM	8.01
877	12/03/2024 10:23:50	12/3/2024	10:23:50 AM	8.02
878	12/03/2024 10:23:55	12/3/2024	10:23:55 AM	8.02
879	12/03/2024 10:24:00	12/3/2024	10:24:00 AM	8.02
880	12/03/2024 10:24:05	12/3/2024	10:24:05 AM	8.02
881	12/03/2024 10:24:10	12/3/2024	10:24:10 AM	8.02
882	12/03/2024 10:24:15	12/3/2024	10:24:15 AM	8.02
883	12/03/2024 10:24:20	12/3/2024	10:24:20 AM	8.02
884	12/03/2024 10:24:25	12/3/2024	10:24:25 AM	8.01
885	12/03/2024 10:24:30	12/3/2024	10:24:30 AM	8.01
886	12/03/2024 10:24:35	12/3/2024	10:24:35 AM	8.01

887	12/03/2024 10:24:40	12/3/2024	10:24:40 AM	8.01
888	12/03/2024 10:24:45	12/3/2024	10:24:45 AM	8.01
889	12/03/2024 10:24:50	12/3/2024	10:24:50 AM	8.01
890	12/03/2024 10:24:55	12/3/2024	10:24:55 AM	8.01
891	12/03/2024 10:25:00	12/3/2024	10:25:00 AM	8.01
892	12/03/2024 10:25:05	12/3/2024	10:25:05 AM	8.01
893	12/03/2024 10:25:10	12/3/2024	10:25:10 AM	8.01
894	12/03/2024 10:25:15	12/3/2024	10:25:15 AM	8.01
895	12/03/2024 10:25:20	12/3/2024	10:25:20 AM	8.01
896	12/03/2024 10:25:25	12/3/2024	10:25:25 AM	8.01
897	12/03/2024 10:25:30	12/3/2024	10:25:30 AM	8.00
898	12/03/2024 10:25:35	12/3/2024	10:25:35 AM	8.00
899	12/03/2024 10:25:40	12/3/2024	10:25:40 AM	8.00
900	12/03/2024 10:25:45	12/3/2024	10:25:45 AM	8.00
901	12/03/2024 10:25:50	12/3/2024	10:25:50 AM	8.00
902	12/03/2024 10:25:55	12/3/2024	10:25:55 AM	8.00
903	12/03/2024 10:26:00	12/3/2024	10:26:00 AM	8.00
904	12/03/2024 10:26:05	12/3/2024	10:26:05 AM	7.99
905	12/03/2024 10:26:10	12/3/2024	10:26:10 AM	7.99
906	12/03/2024 10:26:15	12/3/2024	10:26:15 AM	7.98
907	12/03/2024 10:26:20	12/3/2024	10:26:20 AM	7.98
908	12/03/2024 10:26:25	12/3/2024	10:26:25 AM	7.98
909	12/03/2024 10:26:30	12/3/2024	10:26:30 AM	7.97
910	12/03/2024 10:26:35	12/3/2024	10:26:35 AM	7.97
911	12/03/2024 10:26:40	12/3/2024	10:26:40 AM	7.96
912	12/03/2024 10:26:45	12/3/2024	10:26:45 AM	7.96
913	12/03/2024 10:26:50	12/3/2024	10:26:50 AM	7.96
914	12/03/2024 10:26:55	12/3/2024	10:26:55 AM	7.96
915	12/03/2024 10:27:00	12/3/2024	10:27:00 AM	7.96
916	12/03/2024 10:27:05	12/3/2024	10:27:05 AM	7.96
917	12/03/2024 10:27:10	12/3/2024	10:27:10 AM	7.96
918	12/03/2024 10:27:15	12/3/2024	10:27:15 AM	7.96
919	12/03/2024 10:27:20	12/3/2024	10:27:20 AM	7.96
920	12/03/2024 10:27:25	12/3/2024	10:27:25 AM	7.96
921	12/03/2024 10:27:30	12/3/2024	10:27:30 AM	7.96
922	12/03/2024 10:27:35	12/3/2024	10:27:35 AM	7.96
923	12/03/2024 10:27:40	12/3/2024	10:27:40 AM	7.96
924	12/03/2024 10:27:45	12/3/2024	10:27:45 AM	7.96
925	12/03/2024 10:27:50	12/3/2024	10:27:50 AM	7.96
926	12/03/2024 10:27:55	12/3/2024	10:27:55 AM	7.96
927	12/03/2024 10:28:00	12/3/2024	10:28:00 AM	7.96
928	12/03/2024 10:28:05	12/3/2024	10:28:05 AM	7.96
929	12/03/2024 10:28:10	12/3/2024	10:28:10 AM	7.96
930	12/03/2024 10:28:15	12/3/2024	10:28:15 AM	7.96
931	12/03/2024 10:28:20	12/3/2024	10:28:20 AM	7.96
932	12/03/2024 10:28:25	12/3/2024	10:28:25 AM	7.96
933	12/03/2024 10:28:30	12/3/2024	10:28:30 AM	7.96

934	12/03/2024 10:28:35	12/3/2024	10:28:35 AM	7.97
935	12/03/2024 10:28:40	12/3/2024	10:28:40 AM	7.97
936	12/03/2024 10:28:45	12/3/2024	10:28:45 AM	7.97
937	12/03/2024 10:28:50	12/3/2024	10:28:50 AM	7.97
938	12/03/2024 10:28:55	12/3/2024	10:28:55 AM	7.97
939	12/03/2024 10:29:00	12/3/2024	10:29:00 AM	7.97
940	12/03/2024 10:29:05	12/3/2024	10:29:05 AM	7.97
941	12/03/2024 10:29:10	12/3/2024	10:29:10 AM	7.97
942	12/03/2024 10:29:15	12/3/2024	10:29:15 AM	7.97
943	12/03/2024 10:29:20	12/3/2024	10:29:20 AM	7.97
944	12/03/2024 10:29:25	12/3/2024	10:29:25 AM	7.97
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948	12/03/2024 10:29:45	12/3/2024	10:29:45 AM	7.97
949	12/03/2024 10:29:50	12/3/2024	10:29:50 AM	7.97
950	12/03/2024 10:29:55	12/3/2024	10:29:55 AM	7.97
951	12/03/2024 10:30:00	12/3/2024	10:30:00 AM	7.97
952	12/03/2024 10:30:05	12/3/2024	10:30:05 AM	7.97
953	12/03/2024 10:30:10	12/3/2024	10:30:10 AM	7.97
954	12/03/2024 10:30:15	12/3/2024	10:30:15 AM	7.97
955	12/03/2024 10:30:20	12/3/2024	10:30:20 AM	7.97
956	12/03/2024 10:30:25	12/3/2024	10:30:25 AM	7.97
957	12/03/2024 10:30:30	12/3/2024	10:30:30 AM	7.97
958	12/03/2024 10:30:35	12/3/2024	10:30:35 AM	7.97
959	12/03/2024 10:30:40	12/3/2024	10:30:40 AM	7.97
960	12/03/2024 10:30:45	12/3/2024	10:30:45 AM	7.97
961	12/03/2024 10:30:50	12/3/2024	10:30:50 AM	7.97
962	12/03/2024 10:30:55	12/3/2024	10:30:55 AM	7.97
963	12/03/2024 10:31:00	12/3/2024	10:31:00 AM	7.97
964	12/03/2024 10:31:05	12/3/2024	10:31:05 AM	7.97
965	12/03/2024 10:31:10	12/3/2024	10:31:10 AM	7.97
966	12/03/2024 10:31:15	12/3/2024	10:31:15 AM	7.97
967	12/03/2024 10:31:20	12/3/2024	10:31:20 AM	7.97
968	12/03/2024 10:31:25	12/3/2024	10:31:25 AM	7.98
969	12/03/2024 10:31:30	12/3/2024	10:31:30 AM	7.98
970	12/03/2024 10:31:35	12/3/2024	10:31:35 AM	7.98
971	12/03/2024 10:31:40	12/3/2024	10:31:40 AM	7.97
972	12/03/2024 10:31:45	12/3/2024	10:31:45 AM	7.97
973	12/03/2024 10:31:50	12/3/2024	10:31:50 AM	7.97
974	12/03/2024 10:31:55	12/3/2024	10:31:55 AM	7.98
975	12/03/2024 10:32:00	12/3/2024	10:32:00 AM	7.98
976	12/03/2024 10:32:05	12/3/2024	10:32:05 AM	7.98
977	12/03/2024 10:32:10	12/3/2024	10:32:10 AM	7.98
978	12/03/2024 10:32:15	12/3/2024	10:32:15 AM	7.98
979	12/03/2024 10:32:20	12/3/2024	10:32:20 AM	7.98
980	12/03/2024 10:32:25	12/3/2024	10:32:25 AM	7.98

981	12/03/2024 10:32:30	12/3/2024	10:32:30 AM	7.97
982	12/03/2024 10:32:35	12/3/2024	10:32:35 AM	7.97
983	12/03/2024 10:32:40	12/3/2024	10:32:40 AM	7.98
984	12/03/2024 10:32:45	12/3/2024	10:32:45 AM	7.97
985	12/03/2024 10:32:50	12/3/2024	10:32:50 AM	7.97
986	12/03/2024 10:32:55	12/3/2024	10:32:55 AM	7.97
987	12/03/2024 10:33:00	12/3/2024	10:33:00 AM	7.97
988	12/03/2024 10:33:05	12/3/2024	10:33:05 AM	7.97
989	12/03/2024 10:33:10	12/3/2024	10:33:10 AM	7.97
990	12/03/2024 10:33:15	12/3/2024	10:33:15 AM	7.97
991	12/03/2024 10:33:20	12/3/2024	10:33:20 AM	7.97
992	12/03/2024 10:33:25	12/3/2024	10:33:25 AM	7.97
993	12/03/2024 10:33:30	12/3/2024	10:33:30 AM	7.97
994	12/03/2024 10:33:35	12/3/2024	10:33:35 AM	7.97
995	12/03/2024 10:33:40	12/3/2024	10:33:40 AM	7.97
996	12/03/2024 10:33:45	12/3/2024	10:33:45 AM	7.97
997	12/03/2024 10:33:50	12/3/2024	10:33:50 AM	7.97
998	12/03/2024 10:33:55	12/3/2024	10:33:55 AM	7.97
999	12/03/2024 10:34:00	12/3/2024	10:34:00 AM	7.97
1000	12/03/2024 10:34:05	12/3/2024	10:34:05 AM	7.97
1001	12/03/2024 10:34:10	12/3/2024	10:34:10 AM	7.97
1002	12/03/2024 10:34:15	12/3/2024	10:34:15 AM	7.97
1003	12/03/2024 10:34:20	12/3/2024	10:34:20 AM	7.97
1004	12/03/2024 10:34:25	12/3/2024	10:34:25 AM	7.97
1005	12/03/2024 10:34:30	12/3/2024	10:34:30 AM	7.97
1006	12/03/2024 10:34:35	12/3/2024	10:34:35 AM	7.97
1007	12/03/2024 10:34:40	12/3/2024	10:34:40 AM	7.97
1008	12/03/2024 10:34:45	12/3/2024	10:34:45 AM	7.97
1009	12/03/2024 10:34:50	12/3/2024	10:34:50 AM	7.97
1010	12/03/2024 10:34:55	12/3/2024	10:34:55 AM	7.97
1011	12/03/2024 10:35:00	12/3/2024	10:35:00 AM	7.97
1012	12/03/2024 10:35:05	12/3/2024	10:35:05 AM	7.97
1013	12/03/2024 10:35:10	12/3/2024	10:35:10 AM	7.97
1014	12/03/2024 10:35:15	12/3/2024	10:35:15 AM	7.97
1015	12/03/2024 10:35:20	12/3/2024	10:35:20 AM	7.97
1016	12/03/2024 10:35:25	12/3/2024	10:35:25 AM	7.97
1017	12/03/2024 10:35:30	12/3/2024	10:35:30 AM	7.97
1018	12/03/2024 10:35:35	12/3/2024	10:35:35 AM	7.97
1019	12/03/2024 10:35:40	12/3/2024	10:35:40 AM	7.97
1020	12/03/2024 10:35:45	12/3/2024	10:35:45 AM	7.97
1021	12/03/2024 10:35:50	12/3/2024	10:35:50 AM	7.97
1022	12/03/2024 10:35:55	12/3/2024	10:35:55 AM	7.96
1023	12/03/2024 10:36:00	12/3/2024	10:36:00 AM	7.96
1024	12/03/2024 10:36:05	12/3/2024	10:36:05 AM	7.96
1025	12/03/2024 10:36:10	12/3/2024	10:36:10 AM	7.96
1026	12/03/2024 10:36:15	12/3/2024	10:36:15 AM	7.96
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1030	12/03/2024 10:36:35	12/3/2024	10:36:35 AM	7.96
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1035	12/03/2024 10:37:00	12/3/2024	10:37:00 AM	7.96
1036	12/03/2024 10:37:05	12/3/2024	10:37:05 AM	7.96
1037	12/03/2024 10:37:10	12/3/2024	10:37:10 AM	7.96
1038	12/03/2024 10:37:15	12/3/2024	10:37:15 AM	7.96
1039	12/03/2024 10:37:20	12/3/2024	10:37:20 AM	7.96
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1068	12/03/2024 10:39:45	12/3/2024	10:39:45 AM	7.95
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1091	12/03/2024 10:41:40	12/3/2024	10:41:40 AM	7.94
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1093	12/03/2024 10:41:50	12/3/2024	10:41:50 AM	7.94
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1098	12/03/2024 10:42:15	12/3/2024	10:42:15 AM	7.93
1099	12/03/2024 10:42:20	12/3/2024	10:42:20 AM	7.93
1100	12/03/2024 10:42:25	12/3/2024	10:42:25 AM	7.93
1101	12/03/2024 10:42:30	12/3/2024	10:42:30 AM	7.93
1102	12/03/2024 10:42:35	12/3/2024	10:42:35 AM	7.93
1103	12/03/2024 10:42:40	12/3/2024	10:42:40 AM	7.93
1104	12/03/2024 10:42:45	12/3/2024	10:42:45 AM	7.93
1105	12/03/2024 10:42:50	12/3/2024	10:42:50 AM	7.93
1106	12/03/2024 10:42:55	12/3/2024	10:42:55 AM	7.93
1107	12/03/2024 10:43:00	12/3/2024	10:43:00 AM	7.93
1108	12/03/2024 10:43:05	12/3/2024	10:43:05 AM	7.93
1109	12/03/2024 10:43:10	12/3/2024	10:43:10 AM	7.93
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1111	12/03/2024 10:43:20	12/3/2024	10:43:20 AM	7.93
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1116	12/03/2024 10:43:45	12/3/2024	10:43:45 AM	7.93
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1598	12/03/2024 11:23:55	12/3/2024	11:23:55 AM	7.83
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1600	12/03/2024 11:24:05	12/3/2024	11:24:05 AM	7.83
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1834	12/03/2024 11:43:35	12/3/2024	11:43:35 AM	7.80
1835	12/03/2024 11:43:40	12/3/2024	11:43:40 AM	7.80
1836	12/03/2024 11:43:45	12/3/2024	11:43:45 AM	7.80
1837	12/03/2024 11:43:50	12/3/2024	11:43:50 AM	7.80
1838	12/03/2024 11:43:55	12/3/2024	11:43:55 AM	7.80
1839	12/03/2024 11:44:00	12/3/2024	11:44:00 AM	7.80
1840	12/03/2024 11:44:05	12/3/2024	11:44:05 AM	7.80
1841	12/03/2024 11:44:10	12/3/2024	11:44:10 AM	7.80
1842	12/03/2024 11:44:15	12/3/2024	11:44:15 AM	7.80
1843	12/03/2024 11:44:20	12/3/2024	11:44:20 AM	7.80
1844	12/03/2024 11:44:25	12/3/2024	11:44:25 AM	7.80
1845	12/03/2024 11:44:30	12/3/2024	11:44:30 AM	7.80
1846	12/03/2024 11:44:35	12/3/2024	11:44:35 AM	7.80
1847	12/03/2024 11:44:40	12/3/2024	11:44:40 AM	7.80
1848	12/03/2024 11:44:45	12/3/2024	11:44:45 AM	7.80
1849	12/03/2024 11:44:50	12/3/2024	11:44:50 AM	7.80
1850	12/03/2024 11:44:55	12/3/2024	11:44:55 AM	7.80
1851	12/03/2024 11:45:00	12/3/2024	11:45:00 AM	7.80
1852	12/03/2024 11:45:05	12/3/2024	11:45:05 AM	7.80
1853	12/03/2024 11:45:10	12/3/2024	11:45:10 AM	7.80
1854	12/03/2024 11:45:15	12/3/2024	11:45:15 AM	7.80
1855	12/03/2024 11:45:20	12/3/2024	11:45:20 AM	7.80
1856	12/03/2024 11:45:25	12/3/2024	11:45:25 AM	7.80
1857	12/03/2024 11:45:30	12/3/2024	11:45:30 AM	7.80
1858	12/03/2024 11:45:35	12/3/2024	11:45:35 AM	7.80
1859	12/03/2024 11:45:40	12/3/2024	11:45:40 AM	7.80
1860	12/03/2024 11:45:45	12/3/2024	11:45:45 AM	7.80
1861	12/03/2024 11:45:50	12/3/2024	11:45:50 AM	7.80
1862	12/03/2024 11:45:55	12/3/2024	11:45:55 AM	7.80
1863	12/03/2024 11:46:00	12/3/2024	11:46:00 AM	7.80
1864	12/03/2024 11:46:05	12/3/2024	11:46:05 AM	7.80
1865	12/03/2024 11:46:10	12/3/2024	11:46:10 AM	7.80
1866	12/03/2024 11:46:15	12/3/2024	11:46:15 AM	7.80
1867	12/03/2024 11:46:20	12/3/2024	11:46:20 AM	7.80
1868	12/03/2024 11:46:25	12/3/2024	11:46:25 AM	7.80
1869	12/03/2024 11:46:30	12/3/2024	11:46:30 AM	7.80
1870	12/03/2024 11:46:35	12/3/2024	11:46:35 AM	7.80
1871	12/03/2024 11:46:40	12/3/2024	11:46:40 AM	7.80
1872	12/03/2024 11:46:45	12/3/2024	11:46:45 AM	7.80
1873	12/03/2024 11:46:50	12/3/2024	11:46:50 AM	7.80

1874	12/03/2024 11:46:55	12/3/2024	11:46:55 AM	7.80
1875	12/03/2024 11:47:00	12/3/2024	11:47:00 AM	7.80
1876	12/03/2024 11:47:05	12/3/2024	11:47:05 AM	7.80
1877	12/03/2024 11:47:10	12/3/2024	11:47:10 AM	7.80
1878	12/03/2024 11:47:15	12/3/2024	11:47:15 AM	7.80
1879	12/03/2024 11:47:20	12/3/2024	11:47:20 AM	7.80
1880	12/03/2024 11:47:25	12/3/2024	11:47:25 AM	7.80
1881	12/03/2024 11:47:30	12/3/2024	11:47:30 AM	7.80
1882	12/03/2024 11:47:35	12/3/2024	11:47:35 AM	7.80
1883	12/03/2024 11:47:40	12/3/2024	11:47:40 AM	7.80
1884	12/03/2024 11:47:45	12/3/2024	11:47:45 AM	7.80
1885	12/03/2024 11:47:50	12/3/2024	11:47:50 AM	7.80
1886	12/03/2024 11:47:55	12/3/2024	11:47:55 AM	7.80
1887	12/03/2024 11:48:00	12/3/2024	11:48:00 AM	7.80
1888	12/03/2024 11:48:05	12/3/2024	11:48:05 AM	7.80
1889	12/03/2024 11:48:10	12/3/2024	11:48:10 AM	7.80
1890	12/03/2024 11:48:15	12/3/2024	11:48:15 AM	7.80
1891	12/03/2024 11:48:20	12/3/2024	11:48:20 AM	7.80
1892	12/03/2024 11:48:25	12/3/2024	11:48:25 AM	7.80
1893	12/03/2024 11:48:30	12/3/2024	11:48:30 AM	7.80
1894	12/03/2024 11:48:35	12/3/2024	11:48:35 AM	7.80
1895	12/03/2024 11:48:40	12/3/2024	11:48:40 AM	7.80
1896	12/03/2024 11:48:45	12/3/2024	11:48:45 AM	7.80
1897	12/03/2024 11:48:50	12/3/2024	11:48:50 AM	7.80
1898	12/03/2024 11:48:55	12/3/2024	11:48:55 AM	7.80
1899	12/03/2024 11:49:00	12/3/2024	11:49:00 AM	7.80
1900	12/03/2024 11:49:05	12/3/2024	11:49:05 AM	7.80
1901	12/03/2024 11:49:10	12/3/2024	11:49:10 AM	7.80
1902	12/03/2024 11:49:15	12/3/2024	11:49:15 AM	7.80
1903	12/03/2024 11:49:20	12/3/2024	11:49:20 AM	7.80
1904	12/03/2024 11:49:25	12/3/2024	11:49:25 AM	7.80
1905	12/03/2024 11:49:30	12/3/2024	11:49:30 AM	7.80
1906	12/03/2024 11:49:35	12/3/2024	11:49:35 AM	7.80
1907	12/03/2024 11:49:40	12/3/2024	11:49:40 AM	7.79
1908	12/03/2024 11:49:45	12/3/2024	11:49:45 AM	7.79
1909	12/03/2024 11:49:50	12/3/2024	11:49:50 AM	7.79
1910	12/03/2024 11:49:55	12/3/2024	11:49:55 AM	7.79
1911	12/03/2024 11:50:00	12/3/2024	11:50:00 AM	7.79
1912	12/03/2024 11:50:05	12/3/2024	11:50:05 AM	7.79
1913	12/03/2024 11:50:10	12/3/2024	11:50:10 AM	7.79
1914	12/03/2024 11:50:15	12/3/2024	11:50:15 AM	7.79
1915	12/03/2024 11:50:20	12/3/2024	11:50:20 AM	7.79
1916	12/03/2024 11:50:25	12/3/2024	11:50:25 AM	7.79
1917	12/03/2024 11:50:30	12/3/2024	11:50:30 AM	7.79
1918	12/03/2024 11:50:35	12/3/2024	11:50:35 AM	7.79
1919	12/03/2024 11:50:40	12/3/2024	11:50:40 AM	7.79
1920	12/03/2024 11:50:45	12/3/2024	11:50:45 AM	7.79

1921	12/03/2024 11:50:50	12/3/2024	11:50:50 AM	7.79
1922	12/03/2024 11:50:55	12/3/2024	11:50:55 AM	7.79
1923	12/03/2024 11:51:00	12/3/2024	11:51:00 AM	7.79
1924	12/03/2024 11:51:05	12/3/2024	11:51:05 AM	7.79
1925	12/03/2024 11:51:10	12/3/2024	11:51:10 AM	7.79
1926	12/03/2024 11:51:15	12/3/2024	11:51:15 AM	7.79
1927	12/03/2024 11:51:20	12/3/2024	11:51:20 AM	7.79
1928	12/03/2024 11:51:25	12/3/2024	11:51:25 AM	7.79
1929	12/03/2024 11:51:30	12/3/2024	11:51:30 AM	7.79
1930	12/03/2024 11:51:35	12/3/2024	11:51:35 AM	7.79
1931	12/03/2024 11:51:40	12/3/2024	11:51:40 AM	7.79
1932	12/03/2024 11:51:45	12/3/2024	11:51:45 AM	7.79
1933	12/03/2024 11:51:50	12/3/2024	11:51:50 AM	7.79
1934	12/03/2024 11:51:55	12/3/2024	11:51:55 AM	7.79
1935	12/03/2024 11:52:00	12/3/2024	11:52:00 AM	7.79
1936	12/03/2024 11:52:05	12/3/2024	11:52:05 AM	7.79
1937	12/03/2024 11:52:10	12/3/2024	11:52:10 AM	7.79
1938	12/03/2024 11:52:15	12/3/2024	11:52:15 AM	7.79
1939	12/03/2024 11:52:20	12/3/2024	11:52:20 AM	7.79
1940	12/03/2024 11:52:25	12/3/2024	11:52:25 AM	7.79
1941	12/03/2024 11:52:30	12/3/2024	11:52:30 AM	7.79
1942	12/03/2024 11:52:35	12/3/2024	11:52:35 AM	7.79
1943	12/03/2024 11:52:40	12/3/2024	11:52:40 AM	7.79
1944	12/03/2024 11:52:45	12/3/2024	11:52:45 AM	7.79
1945	12/03/2024 11:52:50	12/3/2024	11:52:50 AM	7.79
1946	12/03/2024 11:52:55	12/3/2024	11:52:55 AM	7.79
1947	12/03/2024 11:53:00	12/3/2024	11:53:00 AM	7.79
1948	12/03/2024 11:53:05	12/3/2024	11:53:05 AM	7.79
1949	12/03/2024 11:53:10	12/3/2024	11:53:10 AM	7.79
1950	12/03/2024 11:53:15	12/3/2024	11:53:15 AM	7.79
1951	12/03/2024 11:53:20	12/3/2024	11:53:20 AM	7.79
1952	12/03/2024 11:53:25	12/3/2024	11:53:25 AM	7.79
1953	12/03/2024 11:53:30	12/3/2024	11:53:30 AM	7.79
1954	12/03/2024 11:53:35	12/3/2024	11:53:35 AM	7.79
1955	12/03/2024 11:53:40	12/3/2024	11:53:40 AM	7.79
1956	12/03/2024 11:53:45	12/3/2024	11:53:45 AM	7.79
1957	12/03/2024 11:53:50	12/3/2024	11:53:50 AM	7.79
1958	12/03/2024 11:53:55	12/3/2024	11:53:55 AM	7.79
1959	12/03/2024 11:54:00	12/3/2024	11:54:00 AM	7.79
1960	12/03/2024 11:54:05	12/3/2024	11:54:05 AM	7.79
1961	12/03/2024 11:54:10	12/3/2024	11:54:10 AM	7.79
1962	12/03/2024 11:54:15	12/3/2024	11:54:15 AM	7.79
1963	12/03/2024 11:54:20	12/3/2024	11:54:20 AM	7.79
1964	12/03/2024 11:54:25	12/3/2024	11:54:25 AM	7.79
1965	12/03/2024 11:54:30	12/3/2024	11:54:30 AM	7.79
1966	12/03/2024 11:54:35	12/3/2024	11:54:35 AM	7.79
1967	12/03/2024 11:54:40	12/3/2024	11:54:40 AM	7.79

1968	12/03/2024 11:54:45	12/3/2024	11:54:45 AM	7.79
1969	12/03/2024 11:54:50	12/3/2024	11:54:50 AM	7.79
1970	12/03/2024 11:54:55	12/3/2024	11:54:55 AM	7.79
1971	12/03/2024 11:55:00	12/3/2024	11:55:00 AM	7.79
1972	12/03/2024 11:55:05	12/3/2024	11:55:05 AM	7.79
1973	12/03/2024 11:55:10	12/3/2024	11:55:10 AM	7.79
1974	12/03/2024 11:55:15	12/3/2024	11:55:15 AM	7.79
1975	12/03/2024 11:55:20	12/3/2024	11:55:20 AM	7.79
1976	12/03/2024 11:55:25	12/3/2024	11:55:25 AM	7.79
1977	12/03/2024 11:55:30	12/3/2024	11:55:30 AM	7.79
1978	12/03/2024 11:55:35	12/3/2024	11:55:35 AM	7.79
1979	12/03/2024 11:55:40	12/3/2024	11:55:40 AM	7.79
1980	12/03/2024 11:55:45	12/3/2024	11:55:45 AM	7.79
1981	12/03/2024 11:55:50	12/3/2024	11:55:50 AM	7.79
1982	12/03/2024 11:55:55	12/3/2024	11:55:55 AM	7.79
1983	12/03/2024 11:56:00	12/3/2024	11:56:00 AM	7.79
1984	12/03/2024 11:56:05	12/3/2024	11:56:05 AM	7.79
1985	12/03/2024 11:56:10	12/3/2024	11:56:10 AM	7.79
1986	12/03/2024 11:56:15	12/3/2024	11:56:15 AM	7.79
1987	12/03/2024 11:56:20	12/3/2024	11:56:20 AM	7.79
1988	12/03/2024 11:56:25	12/3/2024	11:56:25 AM	7.79
1989	12/03/2024 11:56:30	12/3/2024	11:56:30 AM	7.79
1990	12/03/2024 11:56:35	12/3/2024	11:56:35 AM	7.79
1991	12/03/2024 11:56:40	12/3/2024	11:56:40 AM	7.79
1992	12/03/2024 11:56:45	12/3/2024	11:56:45 AM	7.79
1993	12/03/2024 11:56:50	12/3/2024	11:56:50 AM	7.79
1994	12/03/2024 11:56:55	12/3/2024	11:56:55 AM	7.79
1995	12/03/2024 11:57:00	12/3/2024	11:57:00 AM	7.79
1996	12/03/2024 11:57:05	12/3/2024	11:57:05 AM	7.79
1997	12/03/2024 11:57:10	12/3/2024	11:57:10 AM	7.79
1998	12/03/2024 11:57:15	12/3/2024	11:57:15 AM	7.79
1999	12/03/2024 11:57:20	12/3/2024	11:57:20 AM	7.79
2000	12/03/2024 11:57:25	12/3/2024	11:57:25 AM	7.79
2001	12/03/2024 11:57:30	12/3/2024	11:57:30 AM	7.79
2002	12/03/2024 11:57:35	12/3/2024	11:57:35 AM	7.79
2003	12/03/2024 11:57:40	12/3/2024	11:57:40 AM	7.79
2004	12/03/2024 11:57:45	12/3/2024	11:57:45 AM	7.79
2005	12/03/2024 11:57:50	12/3/2024	11:57:50 AM	7.79
2006	12/03/2024 11:57:55	12/3/2024	11:57:55 AM	7.79
2007	12/03/2024 11:58:00	12/3/2024	11:58:00 AM	7.79
2008	12/03/2024 11:58:05	12/3/2024	11:58:05 AM	7.79
2009	12/03/2024 11:58:10	12/3/2024	11:58:10 AM	7.78
2010	12/03/2024 11:58:15	12/3/2024	11:58:15 AM	7.79
2011	12/03/2024 11:58:20	12/3/2024	11:58:20 AM	7.78
2012	12/03/2024 11:58:25	12/3/2024	11:58:25 AM	7.78
2013	12/03/2024 11:58:30	12/3/2024	11:58:30 AM	7.78
2014	12/03/2024 11:58:35	12/3/2024	11:58:35 AM	7.78

2015	12/03/2024 11:58:40	12/3/2024	11:58:40 AM	7.78
2016	12/03/2024 11:58:45	12/3/2024	11:58:45 AM	7.78
2017	12/03/2024 11:58:50	12/3/2024	11:58:50 AM	7.78
2018	12/03/2024 11:58:55	12/3/2024	11:58:55 AM	7.78
2019	12/03/2024 11:59:00	12/3/2024	11:59:00 AM	7.78
2020	12/03/2024 11:59:05	12/3/2024	11:59:05 AM	7.78
2021	12/03/2024 11:59:10	12/3/2024	11:59:10 AM	7.78
2022	12/03/2024 11:59:15	12/3/2024	11:59:15 AM	7.78
2023	12/03/2024 11:59:20	12/3/2024	11:59:20 AM	7.78
2024	12/03/2024 11:59:25	12/3/2024	11:59:25 AM	7.78
2025	12/03/2024 11:59:30	12/3/2024	11:59:30 AM	7.78
2026	12/03/2024 11:59:35	12/3/2024	11:59:35 AM	7.78
2027	12/03/2024 11:59:40	12/3/2024	11:59:40 AM	7.78
2028	12/03/2024 11:59:45	12/3/2024	11:59:45 AM	7.78
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2030	12/03/2024 11:59:55	12/3/2024	11:59:55 AM	7.78
2031	12/03/2024 12:00:00	12/3/2024	12:00:00 PM	7.78
2032	12/03/2024 12:00:05	12/3/2024	12:00:05 PM	7.78
2033	12/03/2024 12:00:10	12/3/2024	12:00:10 PM	7.78
2034	12/03/2024 12:00:15	12/3/2024	12:00:15 PM	7.78
2035	12/03/2024 12:00:20	12/3/2024	12:00:20 PM	7.78
2036	12/03/2024 12:00:25	12/3/2024	12:00:25 PM	7.78
2037	12/03/2024 12:00:30	12/3/2024	12:00:30 PM	7.78
2038	12/03/2024 12:00:35	12/3/2024	12:00:35 PM	7.78
2039	12/03/2024 12:00:40	12/3/2024	12:00:40 PM	7.78
2040	12/03/2024 12:00:45	12/3/2024	12:00:45 PM	7.78
2041	12/03/2024 12:00:50	12/3/2024	12:00:50 PM	7.78
2042	12/03/2024 12:00:55	12/3/2024	12:00:55 PM	7.78
2043	12/03/2024 12:01:00	12/3/2024	12:01:00 PM	7.78
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2045	12/03/2024 12:01:10	12/3/2024	12:01:10 PM	7.78
2046	12/03/2024 12:01:15	12/3/2024	12:01:15 PM	7.78
2047	12/03/2024 12:01:20	12/3/2024	12:01:20 PM	7.78
2048	12/03/2024 12:01:25	12/3/2024	12:01:25 PM	7.78
2049	12/03/2024 12:01:30	12/3/2024	12:01:30 PM	7.78
2050	12/03/2024 12:01:35	12/3/2024	12:01:35 PM	7.78
2051	12/03/2024 12:01:40	12/3/2024	12:01:40 PM	7.78
2052	12/03/2024 12:01:45	12/3/2024	12:01:45 PM	7.78
2053	12/03/2024 12:01:50	12/3/2024	12:01:50 PM	7.78
2054	12/03/2024 12:01:55	12/3/2024	12:01:55 PM	7.78
2055	12/03/2024 12:02:00	12/3/2024	12:02:00 PM	7.78
2056	12/03/2024 12:02:05	12/3/2024	12:02:05 PM	7.78
2057	12/03/2024 12:02:10	12/3/2024	12:02:10 PM	7.78
2058	12/03/2024 12:02:15	12/3/2024	12:02:15 PM	7.78
2059	12/03/2024 12:02:20	12/3/2024	12:02:20 PM	7.78
2060	12/03/2024 12:02:25	12/3/2024	12:02:25 PM	7.78
2061	12/03/2024 12:02:30	12/3/2024	12:02:30 PM	7.78

2062	12/03/2024 12:02:35	12/3/2024	12:02:35 PM	7.78
2063	12/03/2024 12:02:40	12/3/2024	12:02:40 PM	7.78
2064	12/03/2024 12:02:45	12/3/2024	12:02:45 PM	7.78
2065	12/03/2024 12:02:50	12/3/2024	12:02:50 PM	7.78
2066	12/03/2024 12:02:55	12/3/2024	12:02:55 PM	7.78
2067	12/03/2024 12:03:00	12/3/2024	12:03:00 PM	7.78
2068	12/03/2024 12:03:05	12/3/2024	12:03:05 PM	7.78
2069	12/03/2024 12:03:10	12/3/2024	12:03:10 PM	7.78
2070	12/03/2024 12:03:15	12/3/2024	12:03:15 PM	7.78
2071	12/03/2024 12:03:20	12/3/2024	12:03:20 PM	7.78
2072	12/03/2024 12:03:25	12/3/2024	12:03:25 PM	7.78
2073	12/03/2024 12:03:30	12/3/2024	12:03:30 PM	7.78
2074	12/03/2024 12:03:35	12/3/2024	12:03:35 PM	7.78
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2079	12/03/2024 12:04:00	12/3/2024	12:04:00 PM	7.78
2080	12/03/2024 12:04:05	12/3/2024	12:04:05 PM	7.78
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2082	12/03/2024 12:04:15	12/3/2024	12:04:15 PM	7.78
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2244	12/03/2024 12:17:45	12/3/2024	12:17:45 PM	7.77
2245	12/03/2024 12:17:50	12/3/2024	12:17:50 PM	7.77
2246	12/03/2024 12:17:55	12/3/2024	12:17:55 PM	7.77
2247	12/03/2024 12:18:00	12/3/2024	12:18:00 PM	7.77
2248	12/03/2024 12:18:05	12/3/2024	12:18:05 PM	7.77
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2273	12/03/2024 12:20:10	12/3/2024	12:20:10 PM	7.76
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2280	12/03/2024 12:20:45	12/3/2024	12:20:45 PM	7.76
2281	12/03/2024 12:20:50	12/3/2024	12:20:50 PM	7.76
2282	12/03/2024 12:20:55	12/3/2024	12:20:55 PM	7.76
2283	12/03/2024 12:21:00	12/3/2024	12:21:00 PM	7.77
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2295	12/03/2024 12:22:00	12/3/2024	12:22:00 PM	7.76
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2315	12/03/2024 12:23:40	12/3/2024	12:23:40 PM	7.76
2316	12/03/2024 12:23:45	12/3/2024	12:23:45 PM	7.76
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2322	12/03/2024 12:24:15	12/3/2024	12:24:15 PM	7.76
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2789	12/03/2024 13:03:10	12/3/2024	1:03:10 PM	7.74
2790	12/03/2024 13:03:15	12/3/2024	1:03:15 PM	7.74
2791	12/03/2024 13:03:20	12/3/2024	1:03:20 PM	7.74
2792	12/03/2024 13:03:25	12/3/2024	1:03:25 PM	7.74
2793	12/03/2024 13:03:30	12/3/2024	1:03:30 PM	7.74
2794	12/03/2024 13:03:35	12/3/2024	1:03:35 PM	7.74
2795	12/03/2024 13:03:40	12/3/2024	1:03:40 PM	7.74
2796	12/03/2024 13:03:45	12/3/2024	1:03:45 PM	7.74
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2798	12/03/2024 13:03:55	12/3/2024	1:03:55 PM	7.74
2799	12/03/2024 13:04:00	12/3/2024	1:04:00 PM	7.74
2800	12/03/2024 13:04:05	12/3/2024	1:04:05 PM	7.74
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2804	12/03/2024 13:04:25	12/3/2024	1:04:25 PM	7.74
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2806	12/03/2024 13:04:35	12/3/2024	1:04:35 PM	7.74
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2905	12/03/2024 13:12:50	12/3/2024	1:12:50 PM	7.74
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2918	12/03/2024 13:13:55	12/3/2024	1:13:55 PM	7.73
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2952	12/03/2024 13:16:45	12/3/2024	1:16:45 PM	7.73
2953	12/03/2024 13:16:50	12/3/2024	1:16:50 PM	7.73
2954	12/03/2024 13:16:55	12/3/2024	1:16:55 PM	7.73

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2990	12/03/2024 13:19:55	12/3/2024	1:19:55 PM	7.73
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2997	12/03/2024 13:20:30	12/3/2024	1:20:30 PM	7.73
2998	12/03/2024 13:20:35	12/3/2024	1:20:35 PM	7.73
2999	12/03/2024 13:20:40	12/3/2024	1:20:40 PM	7.73
3000	12/03/2024 13:20:45	12/3/2024	1:20:45 PM	7.73
3001	12/03/2024 13:20:50	12/3/2024	1:20:50 PM	7.73

3002	12/03/2024 13:20:55	12/3/2024	1:20:55 PM	7.74
3003	12/03/2024 13:21:00	12/3/2024	1:21:00 PM	7.74
3004	12/03/2024 13:21:05	12/3/2024	1:21:05 PM	7.73
3005	12/03/2024 13:21:10	12/3/2024	1:21:10 PM	7.73
3006	12/03/2024 13:21:15	12/3/2024	1:21:15 PM	7.74
3007	12/03/2024 13:21:20	12/3/2024	1:21:20 PM	7.73
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3023	12/03/2024 13:22:40	12/3/2024	1:22:40 PM	7.73
3024	12/03/2024 13:22:45	12/3/2024	1:22:45 PM	7.73
3025	12/03/2024 13:22:50	12/3/2024	1:22:50 PM	7.73
3026	12/03/2024 13:22:55	12/3/2024	1:22:55 PM	7.73
3027	12/03/2024 13:23:00	12/3/2024	1:23:00 PM	7.73
3028	12/03/2024 13:23:05	12/3/2024	1:23:05 PM	7.73
3029	12/03/2024 13:23:10	12/3/2024	1:23:10 PM	7.73
3030	12/03/2024 13:23:15	12/3/2024	1:23:15 PM	7.73
3031	12/03/2024 13:23:20	12/3/2024	1:23:20 PM	7.73
3032	12/03/2024 13:23:25	12/3/2024	1:23:25 PM	7.73
3033	12/03/2024 13:23:30	12/3/2024	1:23:30 PM	7.73
3034	12/03/2024 13:23:35	12/3/2024	1:23:35 PM	7.73
3035	12/03/2024 13:23:40	12/3/2024	1:23:40 PM	7.73
3036	12/03/2024 13:23:45	12/3/2024	1:23:45 PM	7.73
3037	12/03/2024 13:23:50	12/3/2024	1:23:50 PM	7.73
3038	12/03/2024 13:23:55	12/3/2024	1:23:55 PM	7.73
3039	12/03/2024 13:24:00	12/3/2024	1:24:00 PM	7.73
3040	12/03/2024 13:24:05	12/3/2024	1:24:05 PM	7.73
3041	12/03/2024 13:24:10	12/3/2024	1:24:10 PM	7.73
3042	12/03/2024 13:24:15	12/3/2024	1:24:15 PM	7.73
3043	12/03/2024 13:24:20	12/3/2024	1:24:20 PM	7.73
3044	12/03/2024 13:24:25	12/3/2024	1:24:25 PM	7.73
3045	12/03/2024 13:24:30	12/3/2024	1:24:30 PM	7.73
3046	12/03/2024 13:24:35	12/3/2024	1:24:35 PM	7.73
3047	12/03/2024 13:24:40	12/3/2024	1:24:40 PM	7.73
3048	12/03/2024 13:24:45	12/3/2024	1:24:45 PM	7.73

3049	12/03/2024 13:24:50	12/3/2024	1:24:50 PM	7.73
3050	12/03/2024 13:24:55	12/3/2024	1:24:55 PM	7.73
3051	12/03/2024 13:25:00	12/3/2024	1:25:00 PM	7.73
3052	12/03/2024 13:25:05	12/3/2024	1:25:05 PM	7.73
3053	12/03/2024 13:25:10	12/3/2024	1:25:10 PM	7.73
3054	12/03/2024 13:25:15	12/3/2024	1:25:15 PM	7.73
3055	12/03/2024 13:25:20	12/3/2024	1:25:20 PM	7.73
3056	12/03/2024 13:25:25	12/3/2024	1:25:25 PM	7.73
3057	12/03/2024 13:25:30	12/3/2024	1:25:30 PM	7.73
3058	12/03/2024 13:25:35	12/3/2024	1:25:35 PM	7.73
3059	12/03/2024 13:25:40	12/3/2024	1:25:40 PM	7.73
3060	12/03/2024 13:25:45	12/3/2024	1:25:45 PM	7.73
3061	12/03/2024 13:25:50	12/3/2024	1:25:50 PM	7.73
3062	12/03/2024 13:25:55	12/3/2024	1:25:55 PM	7.73
3063	12/03/2024 13:26:00	12/3/2024	1:26:00 PM	7.73
3064	12/03/2024 13:26:05	12/3/2024	1:26:05 PM	7.73
3065	12/03/2024 13:26:10	12/3/2024	1:26:10 PM	7.73
3066	12/03/2024 13:26:15	12/3/2024	1:26:15 PM	7.73
3067	12/03/2024 13:26:20	12/3/2024	1:26:20 PM	7.73
3068	12/03/2024 13:26:25	12/3/2024	1:26:25 PM	7.73
3069	12/03/2024 13:26:30	12/3/2024	1:26:30 PM	7.73
3070	12/03/2024 13:26:35	12/3/2024	1:26:35 PM	7.73
3071	12/03/2024 13:26:40	12/3/2024	1:26:40 PM	7.73
3072	12/03/2024 13:26:45	12/3/2024	1:26:45 PM	7.73
3073	12/03/2024 13:26:50	12/3/2024	1:26:50 PM	7.73
3074	12/03/2024 13:26:55	12/3/2024	1:26:55 PM	7.73
3075	12/03/2024 13:27:00	12/3/2024	1:27:00 PM	7.73
3076	12/03/2024 13:27:05	12/3/2024	1:27:05 PM	7.73
3077	12/03/2024 13:27:10	12/3/2024	1:27:10 PM	7.73
3078	12/03/2024 13:27:15	12/3/2024	1:27:15 PM	7.73
3079	12/03/2024 13:27:20	12/3/2024	1:27:20 PM	7.73
3080	12/03/2024 13:27:25	12/3/2024	1:27:25 PM	7.73
3081	12/03/2024 13:27:30	12/3/2024	1:27:30 PM	7.73
3082	12/03/2024 13:27:35	12/3/2024	1:27:35 PM	7.73
3083	12/03/2024 13:27:40	12/3/2024	1:27:40 PM	7.73
3084	12/03/2024 13:27:45	12/3/2024	1:27:45 PM	7.73
3085	12/03/2024 13:27:50	12/3/2024	1:27:50 PM	7.73
3086	12/03/2024 13:27:55	12/3/2024	1:27:55 PM	7.73
3087	12/03/2024 13:28:00	12/3/2024	1:28:00 PM	7.73

5. Bioassay Control Exposure

5.1 Bioassay Control Exposure Test Data

Control test

Client	Anchor QEA
Project	Project Macoma
Project Number	PG1931
Project Manager	M. Knowlen & J. Word
Date Sample Received	12/2/2024
Test type	3-Hour Acute Toxicity with Coho Salmon
Matrix	Liquid
Test Acceptability	≥ 90% average survival of control
Test Start Date	12/06/24
Test Species	<i>Oncorhynchus kisutch</i>
Organism Batch	LEFH111524
Organism Acquired	11/15/2024
Organism Acclimation	21
Organism Age	Juvenile (hatched 1/8/24)
Test Protocol	Adapted from EPA OPPTS (EPA 1996)
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Test Location	Next to Bath 1
Water Description	filtered sea water
Organisms per Replicate	10
Test Chamber Size	167 L
Exposure Volume	3.8 L sample in 146 L (150 L Volume Total)
Test Dissolved Oxygen	>6.5
Test Temperature	12 ± 2
Salinity	
Test pH	

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	6.5	
Temp	9.5	14.4
Salinity		
pH		

Exposure START TIME/INIT: 0855 ✓ TUL
 Exposure END TIME/INIT: 0900 ✓ TUL
 Test END TIME/INIT (3 hr after exposure end time): 1200 ✓ AR

CLIENT SAMPLE ID	LAB ID
Control	--

Concentrations

1	100%
2	.
3	.
4	.
5	.
6	.
7	.
8	.
9	.

Treatment	Rep	Chamber
100%	1	4
100%	2	2
100%	3	3
100%	H	1
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	
	3	
	4	
	5	
	1	
	2	

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/6/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	Control	TEST END DATE	12/2/24	SPECIES	<i>Oncorhynchus kisutch</i>
LAB SAMPLE ID	-	MATRIX	Liquid	NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

	Sample + Discharge Exposure	DO (mg/L)	TEMP (°C)	Salinity (ppt)	pH
		>6.5	10 - 14	-	-
Sample Stock	Control	6.9	10.6	30	7.6
Stock					
Date 12/6/24					
Time 0810					
Tech <i>dw</i>					
Meter # 7					
Test Initiation (0 hrs)	Control	6.9	10.6	30	7.6
Rep 1					
Date 12/6/24					
Time 0810					
Tech <i>dw</i>					
Meter # 7					
Test Termination (3 hrs)	Control	7.2	11.3	31	7.6
Rep 1					
Date 12/5/24					
Time 1248					
Tech AR					
Meter # 10					

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/6/24	PROJECT MANAGER	M. Knowlen & J. Ward
CLIENT SAMPLE ID	Control	TEST END DATE	12/2/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	-	MATRIX	Liquid	NO. OF ORGANISMS	10

Sample + Discharge Exposure Period	Tech:	Time On Video Recording	Notes
	Abbreviation Key: N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)		
	Video Analysis Date:	7 1000	
	Video Analysis Time:	12/26/24	
	Obs Intervals	mk	
	During Sample Dispersal (1 min-15 sec) 51sec.	2:30 - 4:21	Normal, somewhat active. Fish are near outfall valve, unphased. NO erratic movement.
	During Exposure Period (5 min)	4:21 - 9:21	Normal, active - all fish now moving around test chamber. no fish clustered around rH Hob. NO erratic movement. FSW kicks on @ 9:33
	Obs Intervals: After Exposure to Sample		Notes
	30 Sec	9:51	Normal, active, no erratic movement.
	1 Min	10:21	Normal, active, no erratic movement.
	5 Min	14:21	Normal, active, no erratic movement.
	15 Min	24:21	Normal, active, no erratic movement.
	30 Min	39:21	Normal, active, no erratic movement.
	1 Hr	1:09:21	Normal, active, no erratic movement.
	2 Hr	2:09:21	Normal, active, no erratic movement.
	3 Hr (end)	Number Alive, Number Dead: 10A 0D	Normal, active, no erratic movement. Fish are difficult to net (evade capture).

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
 Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
 Handling chamber additional inspection:
 Gills—open gill plate and check for opacity, visible signs of damage
 Eyes—check for discoloration, visible signs of damage
 Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/6/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	Control	TEST END DATE	12/2/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	-	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:		Observations		
N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)				
Sample + Discharge Exposure Period		Tech:	Rep 2	
		Obs Intervals	Time On Video Recording	
		Notes		
Control	During Sample Dispersal (1 min 35 Sec) 51 Sec	2:23 - 4:14	Normal, fish are alert but mostly swimming in place. Dispersed throughout tank. At 4:10 one fish moves to water surface. No erratic movement.	
	During Exposure Period (5 min)	4:14 - 9:14	Normal, alert. More active @ 5:30. At 9:00 one fish moves to surface. No erratic movement. FSW kicks on at 9:28	
	Obs Intervals: After Exposure to Sample		Notes	
	30 Sec	9:44	Normal, alert, active. No erratic movement.	
	1 Min	10:14	Normal, alert, active. No erratic movement.	
	5 Min	14:14	Normal, alert, active. No erratic movement.	
	15 Min	24:14	Normal, alert, active - NO erratic movement.	
	30 Min	39:14	Normal, alert, active. No erratic movement.	
	1 Hr	1:09:14	Normal, alert, active. No erratic movement.	
	2 Hr	2:09:14	Normal, alert, active, no erratic movement.	
3 Hr (end)	Number Alive, Number Dead: 10A 0D	Normal, alert, active. Fish easily evade capture during netting.		

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills—open gill plate and check for opacity, visible signs of damage

Eyes—check for discoloration, visible signs of damage

Body—check for obvious signs of damage, lesions, etc

CLIENT	Anchor OEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/6/24	PROJECT MANAGER	M. Knowlen & J. Ward
CLIENT SAMPLE ID	Control	TEST END DATE	12/2/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	--	MATRIX	Liquid	NO. OF ORGANISMS	10

Abbreviation Key:		Observations	
N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)			
Sample + Discharge Exposure Period	Tech:	MK	Rep 3
	Obs Intervals	Time On Video Recording	
Control	During Sample Dispersal (1 min 15 sec) 51 sec	2:26 - 4:17	Fish started when outflow turned on - immediately swim away, then rest return. Fish mostly clustered away from outflow. Normal, swimming in place.
	During Exposure Period 5 min	4:17 - 9:17	Normal, alert, swimming in place. Become more active at 5:10. No erratic movement.
	Obs Intervals: After Exposure to Sample		Notes
	30 Sec	9:47	Normal, active, alert. No erratic movement.
	1 Min	10:17	Normal, active, alert. No erratic movement.
	5 Min	14:17	Normal, active, alert. No erratic movement.
	15 Min	24:17	Normal, active, alert. No erratic movement.
	30 Min	39:17	Normal, active, alert. No erratic movement.
	1 Hr	1:09:17	Normal, active, alert. No erratic movement.
	2 Hr	2:09:17	Normal, active, alert. No erratic movement.
3 Hr (end)	Number Alive, Number Dead: 10A 0D	Normal, active, alert. No erratic movement. Fish evade capture.	

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.

Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)

Handling chamber additional inspection:

Gills--open gill plate and check for opacity, visible signs of damage

Eyes--check for discoloration, visible signs of damage

Body--check for obvious signs of damage, lesions, etc

CLIENT	Anchor QEA	DATE RECEIVED	12/2/24	PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT	Project Macoma	TEST START DATE	12/6/24	PROJECT MANAGER	M. Knowlen & J. Word
CLIENT SAMPLE ID	Control	TEST END DATE	12/2/24	SPECIES	Oncorhynchus kisutch
LAB SAMPLE ID	--MATRIX		Liquid	NO. OF ORGANISMS	10

Abbreviation Key: N = Normal NB = No Body F = Flashing (scratching on bottom/sides to relieve itching) LOE = Loss of equilibrium or erratic behavior A = Avoidance (moving from one side of chamber to other)	Observations	
	Video Analysis Date:	12/26/24
	Video Analysis Time:	11:15
	Tech:	MLK

Sample + Discharge Exposure Period	Obs Intervals	Time On Video Recording	Notes
Control	During Sample Dispersal (1 min 35 sec) 51 sec.	2:32 - 4:23	Fish moved away from outfall and immediately after swim by it unphased. Active, alert. Dispersed throughout chamber (not clustered). NO erratic movement.
	During Exposure Period (5 min)	4:25 - 9:23	Normal, alert, active. NO erratic movement.
	Immediately After Exposure Period (Fish Pulled & Examined)		Normal, alert, active. to Fish evade capture.
	Number Alive, Number Dead:		10A 0D

All obs except at 3 hr (end) are made from video analysis for Rep 1-3.
 Handling chamber obs are made immediately after designated exposure to discharge. Fish are netted & removed from chamber for physical observations and not replaced into chamber. Take pictures of each, weigh, and measure (enter length/wt data on weight-length tab)
 Handling chamber additional inspection:
 Gills--open gill plate and check for opacity, visible signs of damage Eyes--check for discoloration, visible signs of damage Body--check for obvious signs of damage, lesions, etc

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CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	Control
LAB SAMPLE ID	--
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/6/24
TEST END DATE	12/2/24
MATRIX	Liquid
SPECIES	Oncorhynchus kisutch
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

REP 1 (WQ Chamber)	
Date/Time:	12/6/24
Technician:	TVL/JWA/R

	Length (mm)	Weight (g)
1	79 83	6.17 8.79
2	78 82	6.26 9.12
3	82 85	7.36 7.40
4	86 77	7.29 5.34
5	77 76	5.66 5.81
6	88 78	7.91 6.67
7	77 74	5.88 6.09
8	76 80	6.88 7.04
9	79 84	6.88 8.09
10	74 78	6.56 6.99

Average Length (mm)	79.4 80.8
Average Weight (g)	7.129

Comments:

fish(1): gills normal, red, eyes normal, clear
 (2-10): " All fish normal, red gills, eyes not cloudy
 fish(9): slightly bloated and darker

REP 2	
Date/Time:	12/5/24 12:40
Technician:	JWA/AA

	Length (mm)	Weight (g)
1	85	8.98
2	45	4.17
3	83	7.48
4	86	8.31
5	78	6.48
6	84	7.27
7	79	7.84
8	89	9.10
9	84	8.24
10	80	5.97

Average Length (mm)	83.3
Average Weight (g)	7.789

Comments:

Fish (1) gills normal, red. Eyes normal, not cloudy
 Fish (2-10) gills normal, red. Eyes normal, not cloudy

① WC 12/6/24

CLIENT	Anchor QEA
PROJECT	Project Macoma
CLIENT SAMPLE ID	Control
LAB SAMPLE ID	--
PROTOCOL	Adapted from EPA OPPTS (EPA 1996)
PROJECT MANAGER	M. Knowlen & J. Word

DATE SAMPLE RECEIVED	12/2/24
TEST START DATE	12/6/24
TEST END DATE	12/2/24
MATRIX	Liquid
SPECIES	Oncorhynchus kisutch
NO. OF ORGANISMS	10

3-Hour Acute Toxicity with Coho Salmon

REP 3	
Date/Time:	12/5/24
Technician:	JW/AR

	Length (mm)	Weight (g)
1	85	7.86
2	82	7.42
3	84	7.71
4	87	8.24
5	82	7.08
6	86	8.84
7	88	7.70
8	90	8.64
9	86	8.26
10	79	6.93

Average Length (mm)	84.9
Average Weight (g)	7.963

Comments:

Fish (10) Right operculum appears injured
 Fish (1) gills normal, red. Eyes normal, not cloudy
 Fish (2-10) "

Handling Chamber	
Date/Time:	12/6/24 0910
Technician:	JW/AR

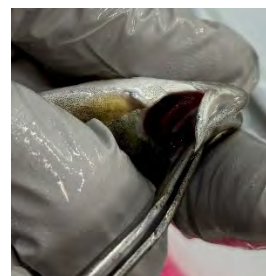
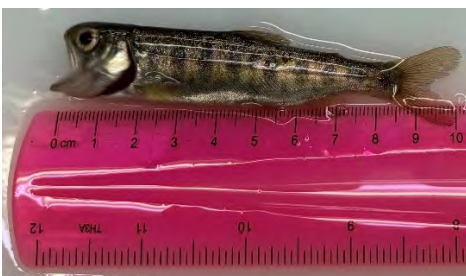
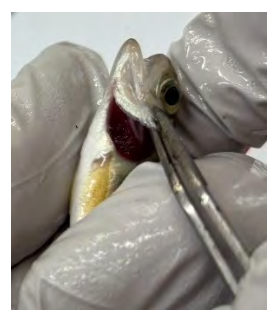
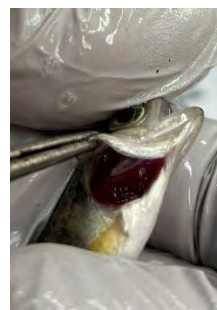
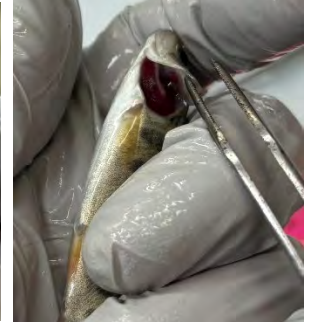
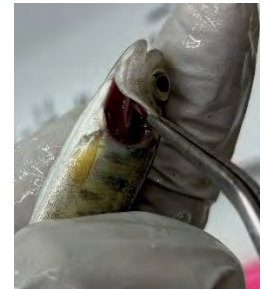
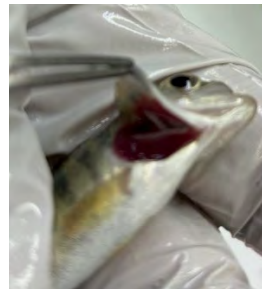
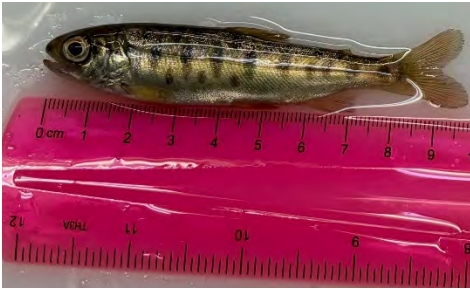
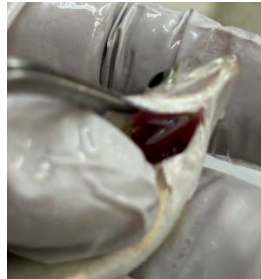
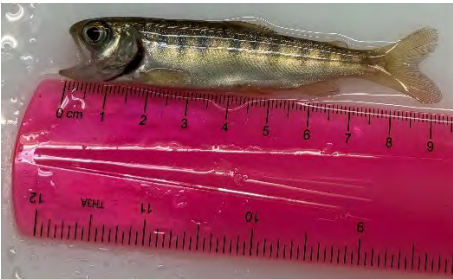
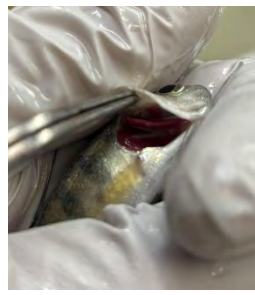
	Length (mm)	Weight (g)
1	79	6.17
2	78	6.26
3	82	7.36
4	86	7.29
5	77	5.66
6	86	7.91
7	77	5.88
8	76	6.68
9	79	6.08
10	74	6.56

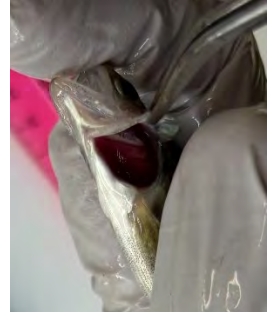
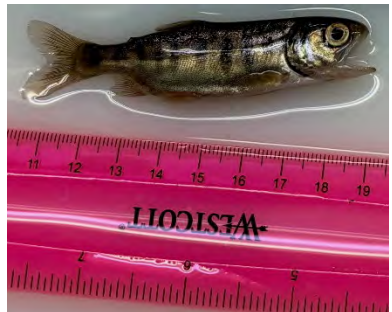
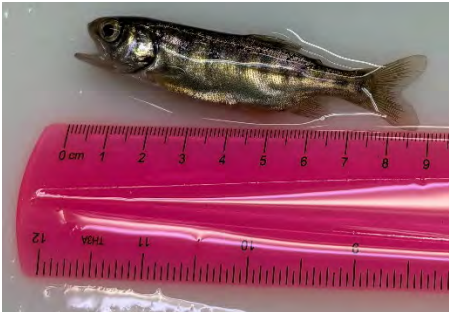
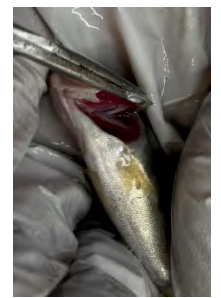
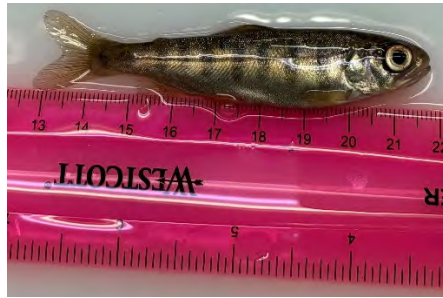
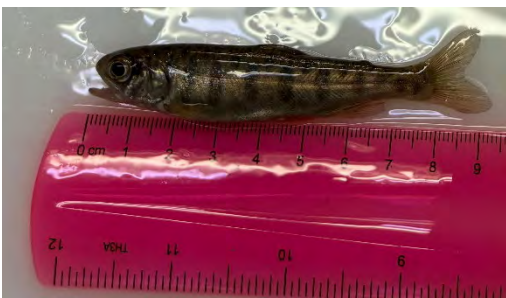
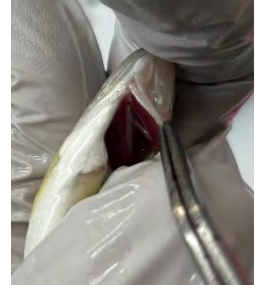
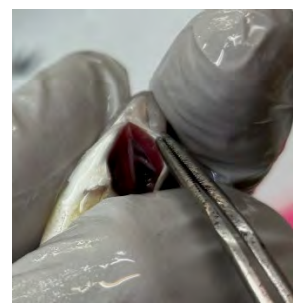
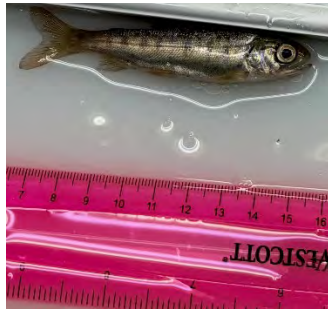
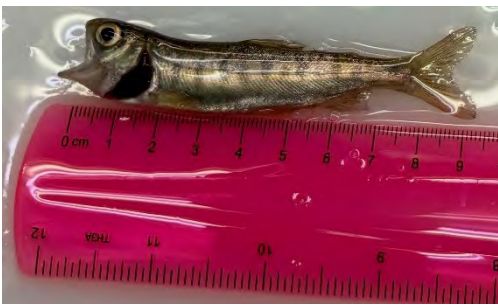
Average Length (mm)	79.4
Average Weight (g)	6.585

Comments:

fish (1): gills normal, red, eyes normal, clear
 (2-10): "
 fish (9): slightly bloated and darker

5.2 Bioassay Control Exposure Test Organism Photos





5.3 Bioassay Control Exposure pH HOBO Data

HOBO CONTROL EXPOSURE

#	Date-Time (PST)	Temperature (°C)	Surface HOBO pH (pH)	
29	8:52:00 AM	9.76	9.76	7.62
30	8:53:00 AM	9.78	9.78	7.62
31	8:54:00 AM	9.80	9.80	7.62
32	8:55:00 AM	9.80	9.80	7.62
33	8:56:00 AM	9.80	9.80	7.62
34	8:57:00 AM	9.80	9.80	7.62
35	8:58:00 AM	9.83	9.83	7.62
36	8:59:00 AM	9.85	9.85	7.62
37	9:00:00 AM	9.85	9.85	7.62
38	9:01:00 AM	9.85	9.85	7.62
39	9:02:00 AM	9.85	9.85	7.62
40	9:03:00 AM	9.83	9.83	7.62
41	9:04:00 AM	9.83	9.83	7.62
42	9:05:00 AM	9.83	9.83	7.62
43	9:06:00 AM	9.83	9.83	7.62
44	9:07:00 AM	9.83	9.83	7.62
45	9:08:00 AM	9.83	9.83	7.62
46	9:09:00 AM	9.83	9.83	7.62
47	9:10:00 AM	9.83	9.83	7.62
48	9:11:00 AM	9.80	9.80	7.62
49	9:12:00 AM	9.80	9.80	7.62
50	9:13:00 AM	9.80	9.80	7.62
51	9:14:00 AM	9.80	9.80	7.62
52	9:15:00 AM	9.80	9.80	7.62
53	9:16:00 AM	9.80	9.80	7.62
54	9:17:00 AM	9.80	9.80	7.62
55	9:18:00 AM	9.80	9.80	7.62
56	9:19:00 AM	9.80	9.80	7.62
57	9:20:00 AM	9.80	9.80	7.62
58	9:21:00 AM	9.78	9.78	7.62
59	9:22:00 AM	9.78	9.78	7.62
60	9:23:00 AM	9.78	9.78	7.62
61	9:24:00 AM	9.78	9.78	7.62
62	9:25:00 AM	9.78	9.78	7.62
63	9:26:00 AM	9.78	9.78	7.62
64	9:27:00 AM	9.78	9.78	7.62
65	9:28:00 AM	9.78	9.78	7.62
66	9:29:00 AM	9.78	9.78	7.62
67	9:30:00 AM	9.78	9.78	7.62
68	9:31:00 AM	9.78	9.78	7.62
69	9:32:00 AM	9.78	9.78	7.62
70	9:33:00 AM	9.78	9.78	7.62
71	9:34:00 AM	9.78	9.78	7.62
72	9:35:00 AM	9.78	9.78	7.62
73	9:36:00 AM	9.78	9.78	7.62
74	9:37:00 AM	9.78	9.78	7.62

75	9:38:00 AM	9.78	7.62
76	9:39:00 AM	9.78	7.62
77	9:40:00 AM	9.78	7.62
78	9:41:00 AM	9.78	7.62
79	9:42:00 AM	9.78	7.62
80	9:43:00 AM	9.78	7.62
81	9:44:00 AM	9.76	7.62
82	9:45:00 AM	9.76	7.62
83	9:46:00 AM	9.76	7.62
84	9:47:00 AM	9.76	7.62
85	9:48:00 AM	9.76	7.62
86	9:49:00 AM	9.76	7.62
87	9:50:00 AM	9.76	7.62
88	9:51:00 AM	9.76	7.62
89	9:52:00 AM	9.76	7.62
90	9:53:00 AM	9.76	7.62
91	9:54:00 AM	9.76	7.62
92	9:55:00 AM	9.76	7.62
93	9:56:00 AM	9.76	7.62
94	9:57:00 AM	9.76	7.62
95	9:58:00 AM	9.76	7.62
96	9:59:00 AM	9.76	7.62
97	10:00:00 AM	9.76	7.62
98	10:01:00 AM	9.76	7.62
99	10:02:00 AM	9.76	7.62
100	10:03:00 AM	9.76	7.62
101	10:04:00 AM	9.76	7.62
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105	10:08:00 AM	9.76	7.62
106	10:09:00 AM	9.76	7.62
107	10:10:00 AM	9.76	7.62
108	10:11:00 AM	9.76	7.62
109	10:12:00 AM	9.76	7.62
110	10:13:00 AM	9.76	7.62
111	10:14:00 AM	9.76	7.62
112	10:15:00 AM	9.76	7.62
113	10:16:00 AM	9.76	7.62
114	10:17:00 AM	9.76	7.62
115	10:18:00 AM	9.76	7.62
116	10:19:00 AM	9.76	7.62
117	10:20:00 AM	9.76	7.62
118	10:21:00 AM	9.76	7.62
119	10:22:00 AM	9.76	7.62
120	10:23:00 AM	9.76	7.62
121	10:24:00 AM	9.76	7.62
122	10:25:00 AM	9.76	7.62
123	10:26:00 AM	9.76	7.62

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128	10:31:00 AM	9.76	7.62
129	10:32:00 AM	9.76	7.62
130	10:33:00 AM	9.76	7.62
131	10:34:00 AM	9.76	7.62
132	10:35:00 AM	9.76	7.62
133	10:36:00 AM	9.76	7.62
134	10:37:00 AM	9.76	7.62
135	10:38:00 AM	9.76	7.62
136	10:39:00 AM	9.76	7.62
137	10:40:00 AM	9.76	7.62
138	10:41:00 AM	9.76	7.62
139	10:42:00 AM	9.76	7.62
140	10:43:00 AM	9.76	7.62
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142	10:45:00 AM	9.76	7.62
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146	10:49:00 AM	9.76	7.62
147	10:50:00 AM	9.76	7.62
148	10:51:00 AM	9.76	7.62
149	10:52:00 AM	9.76	7.62
150	10:53:00 AM	9.76	7.62
151	10:54:00 AM	9.76	7.62
152	10:55:00 AM	9.76	7.62
153	10:56:00 AM	9.76	7.62
154	10:57:00 AM	9.76	7.62
155	10:58:00 AM	9.76	7.62
156	10:59:00 AM	9.76	7.62
157	11:00:00 AM	9.76	7.62
158	11:01:00 AM	9.76	7.62
159	11:02:00 AM	9.76	7.62
160	11:03:00 AM	9.76	7.62
161	11:04:00 AM	9.76	7.62
162	11:05:00 AM	9.76	7.62
163	11:06:00 AM	9.76	7.62
164	11:07:00 AM	9.76	7.62
165	11:08:00 AM	9.76	7.62
166	11:09:00 AM	9.76	7.62
167	11:10:00 AM	9.76	7.62
168	11:11:00 AM	9.76	7.62
169	11:12:00 AM	9.76	7.62
170	11:13:00 AM	9.76	7.62
171	11:14:00 AM	9.76	7.62
172	11:15:00 AM	9.76	7.62

173	11:16:00 AM	9.76	7.62
174	11:17:00 AM	9.76	7.62
175	11:18:00 AM	9.76	7.62
176	11:19:00 AM	9.76	7.62
177	11:20:00 AM	9.76	7.62
178	11:21:00 AM	9.76	7.62
179	11:22:00 AM	9.76	7.62
180	11:23:00 AM	9.76	7.62
181	11:24:00 AM	9.76	7.62
182	11:25:00 AM	9.76	7.62
183	11:26:00 AM	9.76	7.63
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189	11:32:00 AM	9.78	7.63
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191	11:34:00 AM	9.78	7.63
192	11:35:00 AM	9.78	7.63
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210	11:53:00 AM	9.78	7.63
211	11:54:00 AM	9.78	7.63
212	11:55:00 AM	9.78	7.63
213	11:56:00 AM	9.78	7.63
214	11:57:00 AM	9.78	7.63
215	11:58:00 AM	9.78	7.63
216	11:59:00 AM	9.78	7.63
217	12:00:00 PM	9.78	7.63

HOBO CONTROL EXPOSURE

#	Date-Time (PST)	Temperature (°C)	Surface HOBO pH (pH)	
29	8:52:00 AM	9.76	9.76	7.62
30	8:53:00 AM	9.78	9.78	7.62
31	8:54:00 AM	9.80	9.80	7.62
32	8:55:00 AM	9.80	9.80	7.62
33	8:56:00 AM	9.80	9.80	7.62
34	8:57:00 AM	9.80	9.80	7.62
35	8:58:00 AM	9.83	9.83	7.62
36	8:59:00 AM	9.85	9.85	7.62
37	9:00:00 AM	9.85	9.85	7.62
38	9:01:00 AM	9.85	9.85	7.62
39	9:02:00 AM	9.85	9.85	7.62
40	9:03:00 AM	9.83	9.83	7.62
41	9:04:00 AM	9.83	9.83	7.62
42	9:05:00 AM	9.83	9.83	7.62
43	9:06:00 AM	9.83	9.83	7.62
44	9:07:00 AM	9.83	9.83	7.62
45	9:08:00 AM	9.83	9.83	7.62
46	9:09:00 AM	9.83	9.83	7.62
47	9:10:00 AM	9.83	9.83	7.62
48	9:11:00 AM	9.80	9.80	7.62
49	9:12:00 AM	9.80	9.80	7.62
50	9:13:00 AM	9.80	9.80	7.62
51	9:14:00 AM	9.80	9.80	7.62
52	9:15:00 AM	9.80	9.80	7.62
53	9:16:00 AM	9.80	9.80	7.62
54	9:17:00 AM	9.80	9.80	7.62
55	9:18:00 AM	9.80	9.80	7.62
56	9:19:00 AM	9.80	9.80	7.62
57	9:20:00 AM	9.80	9.80	7.62
58	9:21:00 AM	9.78	9.78	7.62
59	9:22:00 AM	9.78	9.78	7.62
60	9:23:00 AM	9.78	9.78	7.62
61	9:24:00 AM	9.78	9.78	7.62
62	9:25:00 AM	9.78	9.78	7.62
63	9:26:00 AM	9.78	9.78	7.62
64	9:27:00 AM	9.78	9.78	7.62
65	9:28:00 AM	9.78	9.78	7.62
66	9:29:00 AM	9.78	9.78	7.62
67	9:30:00 AM	9.78	9.78	7.62
68	9:31:00 AM	9.78	9.78	7.62
69	9:32:00 AM	9.78	9.78	7.62
70	9:33:00 AM	9.78	9.78	7.62
71	9:34:00 AM	9.78	9.78	7.62
72	9:35:00 AM	9.78	9.78	7.62
73	9:36:00 AM	9.78	9.78	7.62
74	9:37:00 AM	9.78	9.78	7.62

75	9:38:00 AM	9.78	7.62
76	9:39:00 AM	9.78	7.62
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78	9:41:00 AM	9.78	7.62
79	9:42:00 AM	9.78	7.62
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81	9:44:00 AM	9.76	7.62
82	9:45:00 AM	9.76	7.62
83	9:46:00 AM	9.76	7.62
84	9:47:00 AM	9.76	7.62
85	9:48:00 AM	9.76	7.62
86	9:49:00 AM	9.76	7.62
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88	9:51:00 AM	9.76	7.62
89	9:52:00 AM	9.76	7.62
90	9:53:00 AM	9.76	7.62
91	9:54:00 AM	9.76	7.62
92	9:55:00 AM	9.76	7.62
93	9:56:00 AM	9.76	7.62
94	9:57:00 AM	9.76	7.62
95	9:58:00 AM	9.76	7.62
96	9:59:00 AM	9.76	7.62
97	10:00:00 AM	9.76	7.62
98	10:01:00 AM	9.76	7.62
99	10:02:00 AM	9.76	7.62
100	10:03:00 AM	9.76	7.62
101	10:04:00 AM	9.76	7.62
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110	10:13:00 AM	9.76	7.62
111	10:14:00 AM	9.76	7.62
112	10:15:00 AM	9.76	7.62
113	10:16:00 AM	9.76	7.62
114	10:17:00 AM	9.76	7.62
115	10:18:00 AM	9.76	7.62
116	10:19:00 AM	9.76	7.62
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121	10:24:00 AM	9.76	7.62
122	10:25:00 AM	9.76	7.62
123	10:26:00 AM	9.76	7.62

124	10:27:00 AM	9.76	7.62
125	10:28:00 AM	9.76	7.62
126	10:29:00 AM	9.76	7.62
127	10:30:00 AM	9.76	7.62
128	10:31:00 AM	9.76	7.62
129	10:32:00 AM	9.76	7.62
130	10:33:00 AM	9.76	7.62
131	10:34:00 AM	9.76	7.62
132	10:35:00 AM	9.76	7.62
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137	10:40:00 AM	9.76	7.62
138	10:41:00 AM	9.76	7.62
139	10:42:00 AM	9.76	7.62
140	10:43:00 AM	9.76	7.62
141	10:44:00 AM	9.76	7.62
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146	10:49:00 AM	9.76	7.62
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149	10:52:00 AM	9.76	7.62
150	10:53:00 AM	9.76	7.62
151	10:54:00 AM	9.76	7.62
152	10:55:00 AM	9.76	7.62
153	10:56:00 AM	9.76	7.62
154	10:57:00 AM	9.76	7.62
155	10:58:00 AM	9.76	7.62
156	10:59:00 AM	9.76	7.62
157	11:00:00 AM	9.76	7.62
158	11:01:00 AM	9.76	7.62
159	11:02:00 AM	9.76	7.62
160	11:03:00 AM	9.76	7.62
161	11:04:00 AM	9.76	7.62
162	11:05:00 AM	9.76	7.62
163	11:06:00 AM	9.76	7.62
164	11:07:00 AM	9.76	7.62
165	11:08:00 AM	9.76	7.62
166	11:09:00 AM	9.76	7.62
167	11:10:00 AM	9.76	7.62
168	11:11:00 AM	9.76	7.62
169	11:12:00 AM	9.76	7.62
170	11:13:00 AM	9.76	7.62
171	11:14:00 AM	9.76	7.62
172	11:15:00 AM	9.76	7.62

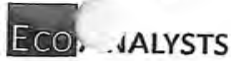
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175	11:18:00 AM	9.76	7.62
176	11:19:00 AM	9.76	7.62
177	11:20:00 AM	9.76	7.62
178	11:21:00 AM	9.76	7.62
179	11:22:00 AM	9.76	7.62
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183	11:26:00 AM	9.76	7.63
184	11:27:00 AM	9.78	7.62
185	11:28:00 AM	9.78	7.63
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191	11:34:00 AM	9.78	7.63
192	11:35:00 AM	9.78	7.63
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201	11:44:00 AM	9.78	7.63
202	11:45:00 AM	9.78	7.63
203	11:46:00 AM	9.78	7.63
204	11:47:00 AM	9.78	7.63
205	11:48:00 AM	9.78	7.63
206	11:49:00 AM	9.78	7.63
207	11:50:00 AM	9.78	7.63
208	11:51:00 AM	9.78	7.63
209	11:52:00 AM	9.78	7.63
210	11:53:00 AM	9.78	7.63
211	11:54:00 AM	9.78	7.63
212	11:55:00 AM	9.78	7.63
213	11:56:00 AM	9.78	7.63
214	11:57:00 AM	9.78	7.63
215	11:58:00 AM	9.78	7.63
216	11:59:00 AM	9.78	7.63
217	12:00:00 PM	9.78	7.63

APPENDIX B. CHAIN-OF-CUSTODY FORMS, LOGS, AND PRE-TEST DOCUMENTS

Sample Receipt

Sample ID (PW)	Multi-piece Designation	Client	Project	Client ID	Matrix: S = Solid, L = Liquid, SW = Site water Sediment, 80-12	Estimated Volume Received	Sample Container Type (Bucket, Jar, Bag, etc)	Cooler/Vessel #	Delivery Method	Tracking #	Custody Seal Intact? (Intact/Broken/NP or Present)	Condition of Wet or Blue Ice: Frozen (Ice Present) / Ice-Water Mix / Water (Thawed)	Temperature ¹	Instrument ID	Date Received	Time Received	Initials Received	Date Sampled	Sample Location	Estimated Current Volume	Date
P241120.01	NA	Anchor QEA	Project Macoma	Alkaline Product dyed Blue	L	10L	Cubi	NA	Courier	NAL	NP	Ice	10.5	T27	11/20/2024	1237	MK	11/19/2024	Fridge 3	6L	11/20/2024
P241202.01	A	Anchor QEA	Project Macoma	NFCB9.8	L	20 L	Cubi	1	Courier	NA	NP	NA	16.4	T27	12/2/2024	1445	MK	12/2/2024	Walkin	20L	12/2/2024
P241202.01	B	Anchor QEA	Project Macoma	NFCB9.8	L	20L	Cubi	2	Courier	NA	NP	NA	16.4	T27	12/2/2024	1445	MK	12/2/2024	Walkin	20L	12/2/2024
P241202.01	C	Anchor QEA	Project Macoma	NFCB9.8	L	20L	Cubi	3	Courier	NA	NP	NA	16.4	T27	12/2/2024	1445	MK	12/2/2024	Walkin	20L	12/2/2024
P241202.01	D	Anchor QEA	Project Macoma	NFCB9.8	L	20 L	Cubi	4	Courier	NA	NP	NA	16.4	T27	12/2/2024	1445	MK	12/2/2024	Walkin	20L	12/2/2024
P241202.01	E	Anchor QEA	Project Macoma	NFCB9.8	L	5 L	Bucket	5	Courier	NA	NP	NA	16.4	T27	12/2/2024	1445	MK	12/2/2024	Walkin	20L	12/2/2024

CHAIN OF CUSTODY



EcoAnalysts, Inc.
4770 NE View Dr., Port Canby, WA. 98364
Tel: (360) 297-6040

Destination: Eco Analysts	Sample Originator (Organization): Ebb Carbon	Report Results To: Ebb Carbon	Phone:
Destination Contact: Michelle Knowlton	PERSON WHO COLLECTED SAMPLE: Tyson Minck	Contact Name: Kyla Westphal	Fax:
Date: 11/19/24	Address: 1529 W Sequim Bay Rd Sequim, WA 98382	Address:	Email:
Turn-Around-Time: Same Day	Phone:	Invoicing To: Comments or Special Instructions:	
Project Name: Project Macoma - Ebb Carbon	Fax:		
Contract/PO:	E-mail:		

No.	Sample ID	Secondary ID: Replicate, X of Y, etc.	Matrix	Volume/Mass	Date	Time	Analyses:		
							Preservation	Sample Temp Upon Receipt	LAB ID
1	Alkaline Product dyed blue		SB	2.5g/1	11/19/24	3:00pm	None	10.5	P241120.01
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Relinquished by:		Received by:		Relinquished by:		Received by:		Matrix Codes FW = Fresh Water SB = Salt & Brackish Water SS = Soil & Sediment TS = Tissue
Print Name: Jeremy Lantz	Print Name: Michelle Knowlton	Print Name:	Print Name:	Print Name:	Print Name:			
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:			
Affiliation: Ebb Carbon	Affiliation: EcoAnalysts	Affiliation:	Affiliation:	Affiliation:	Affiliation:			
Date/Time: 11/20/24 12:30	Date/Time: 11/20/24 12:57	Date/Time:	Date/Time:	Date/Time:	Date/Time:			

ORGANISM RECEIPT LOG

Date: 11/15/24	Time: 1200	Batch No. LEFH111524					
Organism: Coho (Oncorhynchus kisutch)							
Source / Supplier: Lower Elwha Fish Hatchery							
No. Ordered: 250	No. Received: 250	Source Batch: Collection date, hatch date, etc.): 2023 brood yr. collected as eggs 11/28/23. Hatched 1/8/24, began feeding 2/17/24					
Condition of Organisms: good		Approximate Size or Age: (Days from hatch, life stage, size class, etc.): juvenile: total batch wt = 2,130 g avg wt per fish = 8.45 g					
Shipper: courier		B of L (Tracking No.): courier					
Condition of Container: good		Received By: mk JW					
Container	D.O. (mg/L)	Temp. (°C)	Cond. or Sal. (Include Units)	pH (Units)	# Dead	% Dead*	Tech. (Initials)
①	—	9.0	0 ppt	—	—	—	mk
<small>*if >10% contact lab manager</small>							
Notes: ① fish netted into culture tubs							

MAINTENANCE LOG FOR CULTURES

ORGANISM: Coho

LOCATION: Outside tanks

Batch Number: EFH1116/24.01 Date Received: 11/16/24 Initial # of Organisms: 250 10% mortality = 25

Date	Feed AM/PM	Tub No.	D.O.	Temp (°C)	Cond/ Sal ppt	pH	H ₂ O Change	Organisms appear healthy (Y/N)	# Mort (per tub)	¹ Cumulative # Mort*	Init.	Comments
11/17	✓	1	7.4	6.0	0.084	7.5	Y	Y	0	-	NL	added FSW
11/17	✓	2	7.2	5.0	0.050	7.0	Y	Y	0	-	NL	added FSW
11/17	✓	1	7.54	7.0	2.627	7.2	Y	Y	0	-	TW	added FSW
11/17	✓	2	5.2	7.0	2.289	7.3	Y	Y	0	-	TW	added FSW
11/18	✓	1	5.0	5.7	4.285	7.2	Y	Y	0	-	TW	added FSW
11/18	✓	2	5.3	5.6	4.025	7.2	Y	Y	0	-	TW	added FSW
11/19	✓	1	8.5	5.1	6.251	7.3	Y	Y	0	-	TW	added FSW
11/19	✓	2	9.9	4.7	5.989	7.4	Y	Y	0	-	TW	added FSW
11/20	✓	1	9.9	6.4	8.3	7.5	Y	Y	0	-	TW	added FSW
11/20	✓	2	10.0	6.0	8.3	7.5	Y	Y	0	-	UG	Added FSW
11/21	✓	1	9.5	6.2	10.9	7.5	Y	Y	0	-	UG	Added FSW
11/21	✓	2	10.1	6.0	10.6	7.5	Y	Y	0	-	TW	Added FSW
11/22	✓	1	9.8	7.7	12.1	7.6	Y	Y	0	-	TW	Added FSW
11/22	✓	2	10.0	7.5	11.9	7.6	Y	Y	0	-	TW	Added FSW
11/23	✓	1	9.4	7.7	14.55	7.4	Y	Y	0	-	TW	Added FSW
11/23	✓	2	9.7	7.6	14.51	7.4	Y	Y	0	-	AR	Added FSW
11/24	✓	1	8.2	7.0	7.16.11	7.4	Y	Y	0	-	AR	Added FSW
11/24	✓	2	8.9	6.7	16.22	7.5	Y	Y	0	-	TW	added FSW

• aeration added
• aeration added

FT = Flow-through

*For all containers and all days for a given batch; if >10% notify lab manager

¹ Cumulative # Mort is the running total of the current day's total mortality + previous cumulative culture mortality since acquired in lab

① Coho are jumping out of the tub when not covered properly - TW 11/19 (weighted netting down to prevent)

8/8/23

Culture Maintenance Log V1.4

① E-NL 11/16/24, TW 11/17, TW 11/18, TW 11/19, TW 11/24

MAINTENANCE LOG FOR CULTURES

ORGANISM: Coho

LOCATION: Outside tubs

Batch Number: <u>LEFH11524.01</u>	Date Received: <u>11/15/24</u>	Initial # of Organisms: <u>250</u>
		10% mortality = <u>25</u>

Date	Feed		Tub No.	D.O.	Temp (°C)	Cond/ Sal	pH	H ₂ O Change	Organisms appear healthy (Y/N)	# Mort (per tub)	¹Cumulative # Mort*	Init.	Comments
	AM	PM											
11/25	✓	✓	1	9.4	7.3	17.83	7.46	Y	Y	0	-	UG	
11/25	✓	✓	2	9.6	7.2	18.0	7.5	Y	Y	0	0	UG	
11/26	✓	✓	1	9.0	6.8	18.250	7.36	Y	Y	0	-	EM	
11/26	✓	✓	2	9.1	6.9	19.50	7.43	Y	Y	0	5	EM	
11/27	✓	✓	1	11.7	6.7	23.03	6.99	Y	Y	0	-	TUL/RS	
11/27	✓	✓	2	11.5	6.3	23.11	7.26	Y	Y	0	5	TUL/RS	
11/28	✓	✓	1	9.7	5.3	24	7.5	Y	Y	0	-	NL	
11/28	✓	✓	2	9.2	5.2	24	7.6	Y	Y	0	5	NL	
11/29	✓	✓	1	9.1	5.0	27	7.5	Y	Y	0	-	TUL	
11/29	✓	✓	2	9.2	4.9	27	7.5	Y	Y	0	5	TUL	
11/30	✓	✓	1	10.0	4.1	27	7.4	FT	Y	0	-	MAN	
11/30	✓	✓	2	9.7	3.8	28	7.5	FT	Y	0	5	MAN	
12/1	✓	✓	1	9.2	6.0	27.28	7.5	FT	Y	0	-	KD	
12/1	✓	✓	2	8.2	9.0	29	7.6	FT	Y	1	6	KD	
12/2	✓	✓	1	7.9	8.4	30	7.5	FT	Y	0	-	KD	
12/2	✓	✓	2	7.8	8.9	30	7.5	FT	Y	3	9	KD	
12/3	✓		1	7.7	8.4	30	7.4	FT	Y	0	-	KD	
12/3	✓		2	7.5	8.7	30	7.5	FT	Y	2	11	KD	

FT = Flow-through

*For all containers and all days for a given batch; if >10% notify lab manager

¹ Cumulative # Mort is the running total of the current day's total mortality + previous cumulative culture mortality since acquired in lab

① MR - EM 11/26/24, KD 12/1/24

8/8/23 ~~EE - KD 12/1/24~~

MAINTENANCE LOG FOR CULTURES

ORGANISM: E. coli
 LOCATION: Outside Tubs

Batch Number: <u>LEFH 1115 24.01</u>	Date Received: <u>11/15/24</u>	Initial # of Organisms: <u>250</u>	10% mortality = <u>25</u>
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Date	Feed AM/PM	Tub No.	D.O.	Temp (°C)	Cond/ Sal	pH	H ₂ O Change	Organisms appear healthy (Y/N)	# Mort (per tub)	¹ Cumulative # Mort*	Init.	Comments
12/4	✓ ✓	1	9.4	5.5	30	7.7	Y/FT	Y	0	-	AR	
12/4	✓ ✓	2	7.9	8.0	30	7.7	Y/FT	Y	1	13	AR	
12/5	✓ ✓	1	9.9	3.9	30	7.6	Y/FT	Y	0	-	KD	Flow stronger in Tub 2
12/5	✓ ✓	2	8.1	8.4	31	7.6	Y/FT	Y	1	14	KD	Flow adjusted so flow rates are same
12/6	✓ ✓	1	7.4	8.7	31	7.6	FT	Y	1 ^②	15	EM	Tubs consolidated into tub 1
12/7	✓ ✓	1	7.7	11.0	29	7.5	FT	Y	0	15	AR	
12/8	✓ ✓	1	8.0	8.7	29	7.6	FT	Y	0	15	KD	
12/9	✓ ✓	1	① 6.4 8.0	8.1	① 30 29	① 7.5 7.7	FT	Y	0	15	KD	
12/10	✓ ✓	1	8.1	7.5	30	7.5	FT	Y	0	15	KD	
12/11	✓	1	7.7	7.6	29	7.8	FT	Y	0	15	KD	
12/12	✓											
12/13	✓	1	8.3	① 11.7 7.9	30	7.7	FT	Y	1	14	TVL	
12/14	✓ ✓	1	8.6	11.1	30	7.7	FT	Y	0	14	MM	
12/15	✓ ✓	1	8.9	14.8	30	7.8	FT	Y	0	14	RB	
12/16	✓ ✓	1	8.5	① 8.7	30	7.6	FT	Y	0	14	RB	
12/17	✓	1	8.3	8.4	30	7.4	FT	Y	0	14	RB	

FT = Flow-through
 *For all containers and all days for a given batch; if >10% notify lab manager
¹ Cumulative # Mort is the running total of the current day's total mortality + previous cumulative culture mortality since acquired in lab

8/8/23 ① IE AR 12/24, KD 12/9/24, TVL 12/13/24 ② IE: 12/16 RB
 ② from tub 2 - EM 12/6/24

Yellow is to be filled in by technician daily

Bright Green is calculated amount of time to open raw seawater line per culture tub to achieve desired salinity. Time is in Minutes:Seconds

	EXAMPLE	Date/Initials														
	1/1/1111	11/16/2024	11/17/2024	11/18/2024	11/19/2024	11/20/2024	11/21/2024	11/22/2024	11/23/2024	11/24/2024	11/25/2024	11/26/2024	11/27/2024	11/28/2024	11/29/2024	11/30/2024
Test Parameters	MK	NL	TW	TW	TW	LG	TW	TVL	AR	TW	LG	EM	TVL/RB	NL	TVL	MM
Salinity of Raw Seawater (ppt)	30	31	31	31	31	32	32	32	33	32	31	30	30	30	31	31
Salinity of Culture Tub (Measure prior to Water Change) (ppt)	0	0	2.5	4.2	6.1	8.3	10.8	12.0	14.6	16.2	17.9	19.5	23.0	24.0	27.3	27.0
Target Salinity (ppt)	2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30

Salinity Adjustment Multiplier	0.07	0.07	0.06	0.07	0.08	0.08	0.06	0.11	0.09	0.13	0.19	0.31	0.17	0.50	0.23	3.00
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Volume of Raw Seawater to Add to Each Culture Tub Daily (L)	81.07	75	65	84	92	88	71	126	97	146	217	355	189	568	265	1135
Seconds to Open Raw Seawater Line to Achieve Desired Volume (Seconds per Tub)	365	338	292	377	413	395	319	568	436	657	975	1596	851	2554	1192	Flow-Thru
Minutes to Open Raw Seawater Line to Achieve Desired Volume (Minutes:Seconds per Tub)	06:05	05:38	04:52	06:17	06:53	06:35	05:19	09:28	07:16	10:57	16:15	26:36	14:11	42:34	19:52	Flow-Thru

Culture Tub Water Volume (L)	1135.00	300 gallons = 1135 L
Raw Seawater Avg Seconds per L	4.5	