



Point No Point Phase 2 Repair

## **Construction Water Quality Monitoring Plan**

**Prepared for** Mid Sound Fisheries Enhancement Group

**Prepared by** Blue Coast Engineering LLC

October 2024

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### 1 Introduction

Blue Coast Engineering (Blue Coast) has been asked to assist Kitsap County to provide a Construction Water Quality Monitoring Plan (WQMP) for the Point No Point Phase 2 Repair Project (Project) for planned near surface waters of the state. The WQMP identifies monitoring parameters, schedule, frequency, anticipated procedures, and reporting.

This WQMP is applicable to the Point No Point Phase 2 Repair Project. The adjacent Puget Sound is considered waters of the state. This WQMP will be implemented if work cannot occur in the dry at low tide.

The WQMP is subject to change based on field conditions. Blue Coast or Kitsap County will submit any proposed changes in the WQMP to the Washington State Department of Ecology (Ecology) for review and approval prior to implementation.

### 1.1 Objectives

This WQMP provides a water quality monitoring and sampling plan to ensure compliance during any necessary in-water work.

### 1.2 Site Description

Point No Point Park (Park), located on a low-lying sandy barrier beach at the northeastern tip of the Kitsap Peninsula and at the entrance to Puget Sound from Admiralty Inlet, is owned and operated by Kitsap County Parks (KCP) with some facilities extending onto property owned by United States Coast Guard (USCG) and leased to KCP. The Park and perimeter walking trail contain nearly 2,040 feet of shoreline, 1,580 feet of which is unarmored, sandy beach, and 460 feet of which is protected by an aging armor rock revetment. The 1,060-foot perimeter walking trail runs south along the eastern shoreline from the northeastern tip of the park. Flooding on December 27 & 28, 2022, related to high water levels from coincident high tides and a low-pressure system, caused substantial erosion and damage to the Park and neighboring properties.

### 1.3 Project Description

As a result of the December 27 & 28, 2022 storm event, KCP closed the Park to the public. KCP contracted Blue Coast to complete repair and flood protection designs at the Park. KCP requested that the design meet several goals and objectives:

- Restore the north beach elevations so that the two lane access road to the park is usable and the Park can be reopened.
- Limit overtopping of the northern and eastern shoreline to reduce the potential for flooding of Point No Point Road, historic buildings, cultural resources, and adjacent private properties.

• Align with the Point No Point Estuary Restoration planning and design project being led by Mid Sound Fisheries Enhancement Group (MSFEG) to improve salmon habitat.

### 1.4 In-Water Activity Description

The scope of work for this WQMP includes any necessary near-water activities that may affect water quality within waters of the State. Construction activities that may affect water quality include:

- Removing and replacing armor rock materials at or below the high tide line (HTL).
- Placing filter rock materials at or below the HTL.
- Placing beach nourishment materials at or below the HTL.
- Placing cobble materials at or below the HTL.
- Removing and replacing an upland crib wall above the HTL.

All excavation and material placement activities will occur in the dry, as required by permit provisions.

#### 1.5 Best Management Practices (BMPs) for In-Water Activities

All applicable permits for the Project will be obtained prior to construction. All work will be performed according to the requirements and conditions of these permits.

- Work below High Tide Line (HTL) will occur during the U.S. Army Corps of Engineers (USACE) approved work window, or an approved extension of the work window for Puget Sound.
- Work below the Ordinary High-Water Line (OHWL) will occur during the Washington Department of Fish and Wildlife approved work window, or an approved extension of the work window.
- To the maximum extent practicable, staging areas and material stockpiles will be located a minimum of 50 feet from waters of the state.
- Excess or waste materials will not be disposed of or abandoned waterward of OHWM or allowed to enter waters of the state.
- Machinery and equipment used during construction shall be serviced, fueled, maintained, and parked on uplands a minimum of 50 feet, and where practical, 100 feet, from waters of the state to prevent contamination to any surface water. Pumps will have to be located within 50 feet of waterbodies. The sump pump will be moved outside the work area for refueling, if necessary.

- Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks, and shall be maintained and stored properly to prevent spills into waters of the state.
- No petroleum products, fresh cement, lime or concrete, chemicals, or other toxic or deleterious materials will be allowed to enter surface waters.
- Wash water containing oils, grease, or other hazardous materials resulting from wash down of equipment or working area shall not be discharged into waters of the state. If necessary, a separate, contained area will be established for washing down vehicles and equipment that does not have any possibility of draining to waters of the state.
- All construction debris, concrete waste material, excess sediment, and other solid waste shall be properly managed and disposed of in an upland disposal site approved by the appropriate regulatory authority.
- Appropriate BMPs shall be implemented to minimize track-out during construction.
- A written spill prevention, control, and countermeasures (SPCC) plan will be prepared prior to the start of construction. The SPCC describes measures to prevent or reduce impacts due to accidental leaks or spills, as well as all hazardous materials that will be used, their proper storage and handling, and the methods that will be used to monitor their use.
- The site's Construction Stormwater General Permit conditions, TESC Plan, and SWPPP (all prepared under separate cover) will be implemented for erosion and sediment control and for protection of water quality for construction stormwater.
- Construction materials will not be stored where high tides, wave action, or upland runoff can cause materials to enter surface waters.
- Work will occur when tides are low enough to prevent incidental contact of material with marine waters during restoration and construction activities, including demolition and grading (work will be completed in the dry).
- An emergency spill kit will be available on-site during construction whenever work is being performed in or near the water. It will be stored in a location that facilitates its immediate deployment if needed.
- Any materials dropped into the water that are not part of the work activities will be removed immediately by hand by the contractor if feasible:

### 2 Water Quality Monitoring Plan

Construction shall occur as such to prevent discharge of any fill material waterward of the Project area. Turbidity monitoring will not be needed due to the construction activities only being performed during low tide and at no time will planned construction occur in-water. With the use of these best practices (Section 1.5) there shall be no adverse environmental effects to the beach or the shoreline area.

### 2.1 Water Quality Standards for Surface Waters

WAC 173-201A-612, Table 612 lists Puget Sound marine waters adjacent to the site have been described as having "Extraordinary Quality". WAC 173-201A-210 lists use criteria for these marine water waters of the state.

Turbidity standards per WAC 173-201A-210(1)(e) state:

- When background turbidity is 50 nephelometric turbidity units (NTUs) or less: Turbidity shall not exceed 5 NTUs over the background turbidity.
- When background turbidity is more than 50 NTUs: Turbidity shall not exceed a 10 percent increase in turbidity.
- Compliance observations will visually access an "early warning station" approximately 75-foot
  radius from the active work area<sup>1</sup>. Turbidity that is visible over background at this location
  will not be considered an exceedance of the standard but will serve as an early warning to
  allow modification of the construction operation to potentially avoid water quality
  exceedances at the compliance boundary.
- Compliance observations will be visually accessed at an approximately 150-foot radius from the active work area. Any turbidity that is visible over background beyond this boundary is considered an exceedance of the standard.

Other aquatic criteria for marine waters of the state, including temperature, dissolved oxygen, and pH criteria standards will not be visually monitored during construction.

### 2.2 Water Quality Monitoring Contacts

A Certified Erosion and Sediment Control Lead (CESCL) or a qualified environmental scientist will be responsible for conducting water quality monitoring and for providing Washington State Department of Ecology with the necessary notifications and results of the water quality monitoring.

<sup>&</sup>lt;sup>1</sup> The active work area or active construction area is defined by Blue Coast Engineering as any location where ground disturbing activities area occurring on any given day. Areas where ground disturbing has already occurred, or has yet to occur, is not included in the active work area or active construction area.

### 2.3 Water Quality Monitoring Schedule

Construction will occur during low tides and will not occur in-water. Monitoring will only occur, if needed, due to the unlikely occurrence of water entering the work area.

The following table outlines the onsite monitoring parameters. Specific monitoring locations will be identified based on the work activities:

Activity Waterbody Monitoring Point		Monitoring Point	Frequency	Frequency Parameters	
		Location			
General	Puget	Active construction	Every four hours	Turbidity,	Visible plume or
Construction	Sound	area	during active	Oil and	sheen as a result
			construction	grease	of construction
			while waters of		activities in
			the state are		Puget Sound
			within the project		waters offshore
			area.		from the
					construction area

 Table 1: Sampling Schedule

### 2.4 Water Quality Monitoring Protocols, Locations, and Durations

No in-water work will be performed as part of the proposed project. If waters of the state enter the active construction area or should fill material discharge waterward of the Project area, monitoring will occur following the procedures listed below:

Visual water quality monitoring for turbidity will be conducted every four hours while waters of the state are within the active work area. Monitoring will not occur outside of normal construction hours. These hours will be determined by the contractor. The background water quality observation will be in Puget Sound at a radius of 300-feet from the discharge location. Field personnel will visually monitor the 150-foot radius offshore of the compliance point for any evidence of a turbidity plume. Any visible plume more than 150-feet from the compliance point that can be directly attributed to construction activities will be considered an exceedance of water quality standards. Observations will include an "early warning station", which will be located at an approximately 75-foot radius from the active work area. Turbidity that is visible over background at this location will not be considered an exceedance of the standard but will serve as an early warning to allow modification of the construction operation to potentially avoid water quality exceedances at the compliance boundary.

Visual water quality monitoring for oil and grease (observing for a visible sheen on the water's surface) in Puget Sound will be monitored simultaneous to turbidity water quality monitoring.

Water quality monitoring observations will be documented daily while waters of the state are within the active work area and submitted to Washington State Department of Ecology on a weekly basis.

### 2.5 Contingency Measures

As described in Section 2.2, compliance monitoring will be conducted when waters of the state enter the active construction area.

If during visual observations a turbidity plume is observed 150-feet offshore in Puget Sound, monitoring staff will notify the Department of Ecology Project Manager. Depending on the source of the turbidity, BMPs may or may not be deployed, and plume may or may not be considered an exceedance.

Additionally, if fish kills or fish are observed in distress at the jobs site, activities causing the harm will immediately stop and Washington State Department of Ecology Project Manager will be notified.

### 2.6 Non-Compliance

Any occurrence of exceedances of water quality criteria at the point of compliance that are observed by field staff shall be recorded and reported to Blue Coast Engineering (Jessica Cote), Kitsap County (Rylan Knuttgen), and Sonia Mendoza at the Washington State Department of Ecology (smen461@ecy.wa.gov). All water quality reporting shall coincide with the applicable regulatory and environmental permits for this project. All non-compliance observations shall be recorded in the attached monitoring form (Attachment B).

### 2.7 Reporting

All water quality monitoring results (visual) will be recorded on the monitoring form attached (Attachment B).

All sample results will be submitted to the WSDOE Permit Manager/Coordinator at fednotifications@ecy.wa.gov and assigned Project Manager at smen461@ecy.wa.gov on a weekly basis via email.

If sample results or visual monitoring indicate an exceedance of water quality standards, notification shall be made within 24 hours to the Washington State Department of Ecology Permit Manager/Coordinator and assigned Project Manager. Any oil/grease sheens or spills should be reported immediately to the Washington Emergency Management Division 24-Hour Spill Response Team at 1-800-258-5990 and within 24 hours to fednotification@ecy.wa.gov

- An emergency spill kit will be available on-site during construction whenever work is being performed in or near the water. It will be stored in a location that facilitates its immediate deployment if needed.
- BMPs including, but not limited to, the following will be used to ensure no deleterious work materials or debris enter the water:
  - Excavation work conducted within the proposed stream and tidal channels will only occur once diversion structures are successfully installed and operational.
  - Any materials dropped into the water that are not part of the work activities will be removed immediately by hand by the contractor if feasible.

Attachment A JARPA Drawings

Point No Point Phase 2 Repair Project Construction Water Quality Monitoring Plan October 2024





















GENERAL NOTES:

- SENERAL INCIES. 1. CONSTRUCTION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, THESE PLANS AND NOTES ARE NOT INTENDED TO DIRECT THE CONTRACTOR'S METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES EXCEPT AS DESCRIBED FOR CONSIDERATION IN DESIGN.
- 2. THE CONTRACTOR SHALL LOCATE UTILITIES IN THE WORK AREA PRIOR TO BEGINNING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, SITE CONDITIONS, FEATURES, AND ELEVATIONS PRIOR TO FABRICATION OR CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IF DIFFERING CONDITIONS ARE FOUND OR IF THE DESIGN IS TO BE MODIFIED
- 4. REPAIR AND PATCH ALL EXISTING SURFACES DAMAGED OR ALTERED BY NEW WORK. A PATCHED SURFACES SHALL BE SMOOTH, CONTINUOUS, FREE OF IMPERFECTIONS, AND PROPER CONDITION TO RECEIVE THE FINISH AS SPECIFIED. IN PATCHED AREAS OF ANY AREA WHERE A FINISH IS NOT SPECIFIED. CORRECTIVE WORK SHALL MATCH ADJACENT SURFACE FINISHES.
- 5. PROVIDE TEMPORARY BRACING TO UNFINISHED PORTIONS OF THE STRUCTURE UNTIL STABILITY OF THE FINISHED STRUCTURE IS ACHIEVED.
- 6. NOTIFY THE ENGINEER OF ANY OMMISSIONS OR CONFLICTS REGARDING ELEMENTS SHOWN IN THE STRUCTURAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
- 7. THESE DRAWINGS ARE INTENDED TO PROVIDE A GENERAL DESCRIPTION OF THE SCOPE WORK AND SHOULD BE REVIEWED FOR INTENT AS WELL AS SPECIFIC INFORMATION. I THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORK WITH GENER. ACCEPTED STANDARDS OF QUALITY CONSTRUCTION TO PROVIDE A COMPLETED PROJI FULLY USABLE FOR ITS INTENDED PURPOSE.

DESIGN CRITERIA: CODES AND STANDARDS

- 1. AMERICAN CONCRETE INSTITUTE (ACI) 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 2. ACI 301, (2016) SPECIFICATION FOR STRUCTURAL CONCRETE
- 3. INTERNATIONAL CODE COUNCIL (ICC) INTERNATIONAL BUILDING CODE (IBC), 2018, AS AS STATE AND LOCAL AMENDMENTS

LOADS:

1. RETAINING WALL LATERAL EQUIVALENT FLUID PRESSURE: 39 PCF 2. PARKING LOT SURCHARGE: 100 PSF

CONCRETE:

REINFORCEMENT: ASTM A615 DEFORMED BARS GRADE 60

CONCRETE MIX:

THE MIXTURE PROPORTIONS AND WATER-CEMENTITIOUS MATERIALS RATIO FOR MARINE CONCRETE SHALL BE DEVELOPED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 3014.2. PRODUCE THE DESIGN STRENGTH (FC) AND TO PROVIDE DURABILITY, WORKABULITY, AND MIXTURE CONSISTENCY TO ACILITATE PLACEMENT, COMPACTION INTO THE FORMS AND MIXTURE CONSISTENCY TO ACILITATE PLACEMENT, COMPACTION INTO THE FORMS AND AROUND REINFORCEMENT WITHOUT SEGREGATION OR BLEEDING.

- (1) MINIMUM 28-DAY COMPRESSIVE STRENGTH F'C (2) MAXIMUM WATER/CEMENT RATIO
- NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE
- (4) TARGET AIR ENTRAINMENT
- (5) MAXIMUM WATER-SOLUBLE CHLORIDE ION CONCENTRATION IN CONCRETE, BY % WEIGHT OF CEMENT, CONTRIBUTED BY INGREDIENTS INCLUDING WATER, AGGREGATES, CEMENTITIOUS MATERIALS, AND ADMIXTURES, SHALL BE DETERMI ON THE CONCRETE MIX BY ASTM C1218 AT AGE BETWEEN 28 AND 42 DAYS.

(1) (2) (3) (4) (5) RETAINING WALL 5,000 PSI 0.4 2" 5\*/-1.5 0.15

CEMENTITIOUS MATERIALS SHALL BE PORTLAND CEMENT OR CEMENT BLENDED WITH SUPPLEMENTARY CEMENTING MATERIALS, PORTLAND CEMENT: ASTM CL50 TYPE II OR V. LI ALKALI, THE MINIMUM AMOUNT OF PORTLAND CEMENT BY MASS OF TOTAL CEMENTING MATERIALS IS 50%

FLY ASH OR OTHER POZZOLAN: ASTM C618, MAX % OF TOTAL CEMENT BY WEIGHT: 25% SLAG CEMENT: ATM C989, MAX % OF TOTAL CEMENT BY WEIGHT: 50% SILLICA FUME IS NOT PERMITTED

THE CONCRETE MIXTURE SHALL BE PROPORTIONED TO HAVE, AT THE POINT OF DEPOSIT, A MAXIMUM SI UMP OF 4 INCHES AS DETERMINED BY ASTM C143 WHEN ADMIXTURES THAT AFFECT SLUMP ARE NOT USED. WHERE AN ASTM C494 TYPE F OR G ADMIXTURE IS USED. TH SLUMP AFTER THE ADDITION OF THE ADMIXTURE SHALL NOT EXCEED 8 INCHES. SLUMP TOLERANCES SHALL COMPLY WITH THE REOLUREMENTS OF ACI 117

DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE SUBMITTED FOR RE BY THE ENGINEER RECORE THE MIXTURE IS USED AND REFORE MAKING CHANGES TO A MIX ALREADY IN USE. INCLUDE EVIDENCE OF THE ABILITY OF THE PROPOSED MIXTURE TO COMF WITH THE CONCRETE MIXTURE REQUIREMENTS. THE EVIDENCE SHALL BE BASED ON FIELD 1 RECORDS OR LABORATORY TRIAL BATCHES.

DEBRIS AND ICE SHALL BE REMOVED FROM SPACES TO BE OCCUPIED BY CONCRETE BEFORE PLACING, STANDING WATER SHALL BE REMOVED FROM PLACE OF DEPOSIT BEFORE CONCRE PLACED UNLESS A TREMIE IS TO BE USED. DO NOT EXCEED A FREE VERTICAL DROP OF 3 FEET FROM THE POINT OF DISCHARGE.

BONNIE LOU & LEOTA M, RYAN DAN AND MARY,

PURPOSE: BEACH REPAIR

POINT NO POINT

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E ENGINEER OF ANY OMMISSIONS OR CONFLICTS REGARDING ELEMENTS I THE STRUCTURAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.	+ + + + + + + + + + + + + + + + + + + +	+ + + + + +	
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RIA: INDARDS			
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(1)         (2)         (3)         (4)         (5)           NING WALL         5,000 PSI         0.4         2"         5*/-1.5         0.15	+ Un Manna		
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REFERENCE #:	NAME: POINT NO POINT PARK REHABILITATION	HORIZONTAL DATUM: WSP NORTH, NAD83, US	
APPLICANT: KITSAP COUNTY	HOLET	VERTICAL DATUM: NAVD88, FEET	
LOCATION: 8997 NE POINT RD HANSVILLE, WA 98340	<b>PROPOSED:</b> PHASE 2 BEACH AND REVETMENT REPAIR	LONGITUDE: 147.517501 LONGITUDE: W122.528366° S-T-R: S15-T28N-R02E IN: HANSVILLE	CURB WALL PLAN
ADJACENT PROPERTY OWNERS: CATANIA ANTHONY AND BARBARA, GAMBLE		NEAR/AT: ADMIRALTY INLET, PUGET SOUND COUNTY: KITSAP	

**STATE: WASHINGTON** 

DATE: APRIL 2024



Mar

ART ANDERSON





	Scientific Name		Common Name	Size	Spacing		
	Trees & Shrubs						
Т	Trees						
(*)	Picea sitchensis	(Zone C)	Sitka Spruce	5 gal.	10' O.C.		
Ō	Pinus contorta var. contorta	(Zone C)	Shore Pine	5 gal.	10' O.C.		
S	hrubs						
	Amelanchier alnifolia	(Zone C)	Serviceberry	2 gal.	10' O.C.		
	Holodiscus discolor	(Zone C)	Oceanspray	2 gal.	10' O.C.		
	Gaultheria shallon	(Zone C)	Salal	1 gal.	5' O.C.		
$\oslash$	Morella californica	(Zone C)	Pacific Wax Myrtle	5 gal.	10' O.C.		
	Rosa nutkana	(Zone C)	Nootka Rose	2 gal.	5' O.C.		
	Rosa pisocarpa	(Zone C)	Peafruit Rose	2 gal.	5' O.C.		
	Symphoricarpos albus	(Zone C)	Snowberry	2 gal.	5' O.C.		
		Pere	nnials, Grasses & Forbs				
	Fragaria chiloensis	(Zone B)	Beach Strawberry	4" pot	2' O.C.		
******	Grindelia integrifolia	(Zone B)	Puget Sound Gumweed	10-in plug	2' O.C.		
******	Lupinus litteralis	(Zone B)	Seashore Lupine	10-in plug	2' O.C.		
* * * * * * *	Symphiotrichon subspicatum	(Zone B)	Douglas Aster	10-in plug	2' O.C.		
88888	Abronia latifolia	(Zone A)	Coastal Sand Verbena	10-in plug	2' O.C.		
88888	Ambrosia chammissonis	(Zone A)	Silver Burweed	10-in plug	2' O.C.		
88888	Cakile edentula	(Zone A)	American Searocket	10-in plug	2' O.C.		
88888	Deschampsia cespitosa	(Zone A)	Pacific Silverweed	10-in plug	2' O.C.		
88888	Glehnia leiocarpa	(Zone A)	Beach Silvertop	10-in plug	2' O.C.		
88888	Honkenya peploides	(Zone A)	Sea Sandwort	10-in plug	2' O.C.		
	Leymus mollis	(Zone A)	American Dunegrass	10-in plug	2' O.C.		



	REFERENCE #:	NAME: POINT NO POINT PARK REHABILITATION	HORIZONTAL DATUM: WSP NORTH, NAD83, US		
	APPLICANT: KITSAP COUNTY	PROJECT	SURVEY FEET VERTICAL DATUM: NAVD88, FEET LATITUDE: N47.911961°		
	LOCATION: 8997 NE POINT RD HANSVILLE, WA 98340	PROPOSED: PHASE 2 BEACH AND REVETMENT REPAIR	LONGITUDE: W122.528366° S-T-R: S15-T28N-R02E	CANDIDATE PLANT LIST	
BLUE COAST	ADJACENT PROPERTY OWNERS:		IN: HANSVILLE NEAR/AT: ADMIRALTY INLET, PUGET SOUND		
ENGINEERING	CATANIA ANTHONY AND BARBARA, GAMBLE BONNIE LOU & LEOTA M, RYAN DAN AND MARY,	PURPOSE: BEACH REPAIR	COUNTY: KITSAP STATE: WASHINGTON		
	POINT NO POINT		DATE: APRIL 2024	PAGE: 14 OF 14	

Attachment B Water Quality Monitoring Form

Point No Point Phase 2 Repair Project Construction Water Quality Monitoring Plan October 2024



# Water Quality Monitoring Form

WQ Monitor (Name)					
Date of last calibrati	on for Turbidity Meter	Not Applical	ole		
Waterbody Activity		Start Time			Stop Time
Sample Location	Monitoring Point	Date & Time	Turbidity	Sheen (Y/N)	Notes (include weather, tides, other observations of waterbody, etc.)

		waterbody, etc.)