

## ENVIRONMENT COMMITTEE AGENDA

May 20, 2021 – VIA Zoom

4:00P – 4:50P

Chair to call the meeting to order at 4:00 p.m.

1. Approval of the minutes from the meeting of 4.15.2021
2. Poverty Bay Shellfish Protection District Status (4:00 to 4:30 p.m.)  
*Staff will brief the Committee on the latest sampling data and District activities.*
3. Stormfest Update (4:30 to 4:45 p.m.)  
*Staff will provide an update on the 2021 Stormfest event.*
4. WRIA 9 Project Letter of Support (4:45 to 4:50 p.m.)  
*Staff will review with the Committee a draft letter of support for a King County grant application for the McSorley Creek Shoreline and Pocket Estuary Restoration Project.*

## **DRAFT MINUTES – ENVIRONMENT COUNCIL COMMITTEE MEETING 04.15.2021**

---

The meeting was called to order at 4:00 PM, Thursday, April 15, 2021, via Zoom, with the following in attendance:

### **Council Members**

Mayor Matt Pina (Chair)  
Luisa Bangs (Vice-Chair)  
JC Harris

### **City Staff**

Dan Brewer – Chief Operations Officer  
Brandon Carver – Public Works Director  
Loren Reinhold – SWM Utility Manager  
Tyler Beekley – SWM Civil Engineer II  
Scott Wilkins - Harbormaster  
Matthew Hutchins – Assistant City Attorney  
Jeff Friend – Deputy Finance Director  
Jodi Grager – Admin. Assistant

### **Guests**

Councilmembers Traci Buxton, Matt Mahoney and Anthony Martinelli  
Parametrix Staff Austin Fisher and FCS Group Staff Matt Hobson

### **AGENDA:**

1. Approval of 02.18.21 Minutes
2. CIP Project Update
3. SWM Comprehensive Plan Update

### **MEETING:**

1. Unanimous approval of the 02.18.21 minutes
2. SWM Civil Engineer II Tyler Beekley reviewed three SWM Capital Project maps (see agenda packet): 6<sup>th</sup> Ave S/S 239<sup>th</sup> St Pipe Replacement; Soundview Drive/Redondo Beach Drive Pipe Upgrade; 8<sup>th</sup> Ave S (S 264<sup>th</sup>- S 265<sup>th</sup> St) Pipe Project. He summarized the details of each project and pointed to the good news that the low bid for construction costs for each project came in under the Engineer's Estimates. CE Beekley also presented a bid summary document that outlined the bid amounts from the construction companies that participated in bidding these projects. Public Works Director Brandon Carver mentioned the ILA with Lakehaven Utility District that allows for a partnership with the Utility to upgrade their assets in this area of 8<sup>th</sup> Avenue. Lakehaven will contribute toward the total pavement replacement of 8<sup>th</sup> Ave S between S 264<sup>th</sup> and S 265<sup>th</sup> St when the utility work is completed. Staff responded to questions regarding the placement of water lines, sewer lines and storm drains. Staff also described the bidding process for Municipal construction projects.
3. Consultants Austin Fisher and Matt Hobson shared a PowerPoint presentation titled: Surface Water Comprehensive Plan Update (see agenda packet). Mr. Fisher began by summarizing the

tasks that have been accomplished. He also discussed the Capital Improvement Projects that will be pushed out three additional years in order to preserve the current rate structure. Mr. Hobson reviewed the Surface Water Financial Plan and Rate Forecast. Slides 9 – 13 of the presentation include graphs that demonstrate two options: An Extended Capital Plan & Capital Reserve (2021 – 2029) and the Original Capital Plan & Capital Reserve (2021 – 2026). Mr. Hobson responded to questions regarding the possible national/state infrastructure bill and its use for completing projects without increasing utility rates. He replied that this is an unknown at this time. Another concern was regarding the projects that wouldn't be completed until 2029 and whether these projects are critical? Staff assured the Committee that these projects, although necessary, do not rise to the level of immediate need. Lastly, the possibility for the City to explore other rate structures was discussed. The next steps in the SWM Comprehensive Plan is for this Committee to review the draft that will be provided at the September meeting, to be followed by taking it to Council in the Fall. There are several other Comprehensive Plans that will be reviewed by Council, so scheduling this review will be an important factor.

Meeting adjourned at 4:45 p.m.

Minutes respectfully submitted by: Jodi Grager, Admin Asst

## Environment Committee Meeting 5/20/21 Poverty Bay Update

### Background:

On September 14, 2016, because of measured bacterial pollution exceeding nationally established standards for shellfish protection, the Washington State Department of Health (WDOH) downgraded the status of the commercial shellfish harvesting beds in the Poverty Bay area of Puget Sound. The downgraded shellfish beds are located along the shoreline of the cities of Des Moines and Federal Way and receive stream flow and stormwater runoff from these two cities.



*1 The Puyallup Tribe exercises its treaty right to harvest geoducks in Poverty Bay. The harvest is a significance source of income for the Tribe, and Washington State uses its share of the harvest proceeds to fund habitat restoration.*

In advance of the downgrade, King County convened a Technical Committee of agencies whose activities or regulatory responsibilities impact Poverty Bay. The Technical Committee is comprised of representatives from the Cities of Des Moines, Federal Way, and Kent, King County Stormwater Services and Public Health Seattle-King County, Midway and Lakehaven Sewer Districts, Washington State Department of Health, Washington State Department of Ecology, Washington State Department of Natural Resources, Washington State Parks, and the Puyallup Tribe. The City of Des Moines has been a member of the Poverty Bay Technical Committee since its formation in 2015.

The downgrade triggered a requirement in state law, RCW 90.72.045. This requirement imposed a burden/liability on King County government to form a Shellfish Protection District in order to return the shellfish harvesting beds to their original approved condition. On 12/3/2018 by vote of King County Council, Ordinance (#18840) created the Poverty Bay Shellfish Protection District; establishing the district's boundaries; establishing a shellfish protection

program; and adding a new chapter to K.C.C. Title. The ordinance was sponsored by Council Member Dave Upthegrove.

### **3/18/21 Poverty Bay Technical Committee Meeting Overview:**

The Poverty Bay Technical Committee Meeting was last held virtually on 3/18/21. In attendance were representatives from Des Moines, Federal Way, Kent, King County Public Health, King County Stormwater Services, WA Department of Health, WA Department of Ecology, WA Department of Natural Resources, WA Parks and Recreation Commission, Midway Sewer District and Puyallup Tribes. Below is a summary of key updates from the meeting.

### **Water Quality Data Updates from Washington Department of Health:**

#### **Poverty Bay – Annual Shellfish Growing Area Review (Appendix A)**

- 2020 Sampling - The growing area was sampled a minimum of six times, in accordance with NSSP standards for Systematic Random Sampling. The Conditionally Approved area is closed to commercial shellfish harvest from June 1 through November 30 each year.
- Classification Determination – The Department of Health determined it should continue to evaluate ongoing pollution identification and correction efforts in the watershed and monitor the freshwater discharges to the Conditionally Approved area during rainfall events in the Closed period. Water quality and shoreline conditions indicate that the area is correctly classified.
- Stream Sampling – In 2020 Cold, Massey, Woodmont and McSorley creeks were sampled during rain events and sampled produced results below estimated targets. Washington State Department of Health indicated that more samples are required during greater rain events to make a determination.

### **Midway Sewer District Updates:**

#### **Midway Sewer District Penalty**

- Fined \$21,000 by the Department of Ecology for sewage overflow beginning September 10<sup>th</sup>, 2020 caused by equipment and personnel failure.
- \$2,000 penalty issued to two contractors working for Midway Sewer who caused released of untreated sewage on October 13<sup>th</sup> and 14<sup>th</sup> of 2020.

#### **Rain Event Related Overflows**

- Contractor for Midway is working on replacing a 50 year old siphon to avoid future problems, and will help to alleviate future overflows.
- In the Permit process and will go out to bid to upgrade the 16th ave pump station to eliminate overflows with the southside of Saltwater State Park

### **Funding Updates:**

#### **National Estuary Program (NEP) Grant Funds**

- Public Health Seattle-King County received NEP grant funds to evaluate on-site septic systems and implement pollution identification and correction project in the Des Moines and Federal Way area of Poverty Bay, implementing actions in their Closure Response Plan.

- NEP funds support new community engagement specialist for Poverty Bay
  - Meant to support water quality stewardship of the community
  - Starting with Audience analysis - get a better understanding of community values and barriers to making changes to public behaviors
- On-Site Septic System (OSS) program
  - Offering incentives and financial assistance options
    - a. \$50,000 has been set aside for small OSS repairs; grants up to \$5,000 for residential property owners
      - 1. Help with repairing or replacing tanks and pumps
      - 2. Supplement additional assistance that may not cover the complete cost of replacement
      - 3. Or connection to sewer
      - 4. Focus on lower income families
    - b. Rebates up to \$300 for inspections

#### King County Pollution Identification and Correction (PIC) Program

- PIC program is contributing more than \$80,000 a year in lab costs
  - Sampling efforts for fecal coliform at the mouths of the 5 creeks
  - Source tracking in Redondo and Cold Creek
  - Shoreline - parcel by parcel analysis

# Appendix A

## Poverty Bay

### Annual Shellfish Growing Area Review



Prepared By: Mark Toy

Area: Poverty Bay

Year Ending: December 31, 2020

Classification: Approved, Conditionally Approved, Prohibited

#### Activities in the Growing Area in 2020

The growing area was sampled a minimum of six times, in accordance with NSSP standards for Systematic Random Sampling. The Conditionally Approved area is closed to commercial shellfish harvest from June 1 through November 30 each year and the stations were sampled a minimum of 6 times during the Open period.

Public Health Seattle-King County received National Estuary Program grant funds to evaluate on-site septic systems and implement pollution identification and correction project in the Des Moines and Federal Way area of Poverty Bay, implementing actions in their Closure Response Plan.

Several sanitary sewer overflows in the vicinity of McSorley Creek resulted in emergency closures of the area fronting Saltwater State Park (including Geoduck Tract 09950) in September and December.

#### Analytical Results of Water Samples

Table 1 summarizes the 30 most recent samples collected from each of the sampling stations for all months. Table 2 shows open period data for the Conditionally Approved stations based on the last 30 samples. Station 720 is Concerned during the open period.

#### Change in Actual Pollution Sources that Impact the Growing Area

Elevated fecal coliform levels in the freshwater drainages in the Conditionally Approved area continue to be a source of potential pollution during rainfall events in the Closed period and are not always captured at the marine water stations.

#### Classification Status

- ☐ Well within the classification standards
- ☒ Meets standards, but some concerns
- ☐ Meets standards, but threatened with downgrade in classification
- ☐ Fails to meet current classification standards

#### Remarks and Recommendations

The Department should continue to evaluate ongoing pollution identification and correction efforts in the watershed and monitor the freshwater discharges to the Conditionally Approved area during rainfall events in the Closed period. Water quality and shoreline conditions indicate that the area is correctly classified.

## Management Plan Evaluation

1. Have all parties involved complied with the conditions of the management plan ..... Yes
2. Has reporting been adequate to manage the conditional area ..... Yes
3. Does the area consistently meet approved area criteria when it is open for harvest ..... Yes
4. Has a field inspection of critical pollution sources been conducted ..... Yes

**TABLE 1. Summary of Marine Water Data (SRS) Poverty Bay Growing Area**

Sampling Event Type: Regulatory

Maximum Number of Samples: 30

Tides Included: All

| Station Number | Classification         | Date Range             | Range (FC/100mL) | Geomean (FC/100mL) | Est. 90 <sup>th</sup> Percentile (FC/100mL) | Meets Standard |
|----------------|------------------------|------------------------|------------------|--------------------|---------------------------------------------|----------------|
| 571            | Approved               | 2/1/2016 - 12/16/2020  | 1.7 - 11.0       | 2.1                | 4.0                                         | Y              |
| 701            | Approved               | 2/1/2016 - 12/16/2020  | 1.7 - 2400.0     | 3.3                | 19.9                                        | Y              |
| 702            | Approved               | 2/1/2016 - 12/16/2020  | 1.7 - 33.0       | 2.6                | 7.9                                         | Y              |
| 836            | Approved               | 2/1/2016 - 12/16/2020  | 1.7 - 49.0       | 3.7                | 15.8                                        | Y              |
| 837            | Approved               | 2/1/2016 - 12/16/2020  | 1.7 - 27.0       | 3.9                | 12.6                                        | Y              |
| 720            | Conditionally Approved | 7/19/2018 - 12/16/2020 | 1.7 - 540.0      | 5.6                | 36.2                                        | Y              |
| 721            | Conditionally Approved | 6/6/2018 - 12/16/2020  | 1.7 - 130.0      | 3.8                | 16.5                                        | Y              |
| 722            | Conditionally Approved | 6/6/2018 - 12/16/2020  | 1.7 - 22.0       | 2.6                | 6.7                                         | Y              |
| 756            | Conditionally Approved | 7/19/2018 - 12/16/2020 | 1.7 - 130.0      | 3.4                | 17.5                                        | Y              |
| 857            | Conditionally Approved | 7/19/2018 - 12/16/2020 | 1.7 - 13.0       | 2.0                | 3.6                                         | Y              |
| 570            | Prohibited             | 2/1/2016 - 12/16/2020  | 1.7 - 17.0       | 2.2                | 4.8                                         | Y              |
| 572            | Prohibited             | 2/1/2016 - 12/16/2020  | 1.7 - 33.0       | 2.1                | 4.6                                         | Y              |
| 703            | Prohibited             | 2/1/2016 - 12/16/2020  | 1.7 - 14.0       | 2.4                | 4.8                                         | Y              |
| 704            | Prohibited             | 2/1/2016 - 12/16/2020  | 1.7 - 23.0       | 2.6                | 6.9                                         | Y              |
| 705            | Prohibited             | 2/1/2016 - 12/16/2020  | 1.7 - 13.0       | 2.5                | 5.4                                         | Y              |
| 835            | Prohibited             | 2/1/2016 - 12/16/2020  | 1.7 - 540.0      | 3.9                | 22.5                                        | Y              |
| 567            | Unclassified           | 2/1/2016 - 12/16/2020  | 1.7 - 33.0       | 2.3                | 5.2                                         | Y              |
| 568            | Unclassified           | 2/1/2016 - 12/16/2020  | 1.7 - 13.0       | 2.5                | 5.3                                         | Y              |
| 617            | Unclassified           | 8/8/2016 - 12/16/2020  | 1.7 - 23.0       | 2.4                | 5.5                                         | Y              |
| 706            | Unclassified           | 7/19/2018 - 12/16/2020 | 1.7 - 49.0       | 2.8                | 8.3                                         | Y              |
| 707            | Unclassified           | 7/19/2018 - 12/16/2020 | 1.7 - 26.0       | 2.7                | 7.8                                         | Y              |

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/ 100 mL with an estimated 90th percentile not greater than 43 organisms/ 100 mL. The above table shows bacteriological results in relation to program standards.

**TABLE 2. Summary of Marine Water Data from the Conditionally Approved Stations during the Open Period**

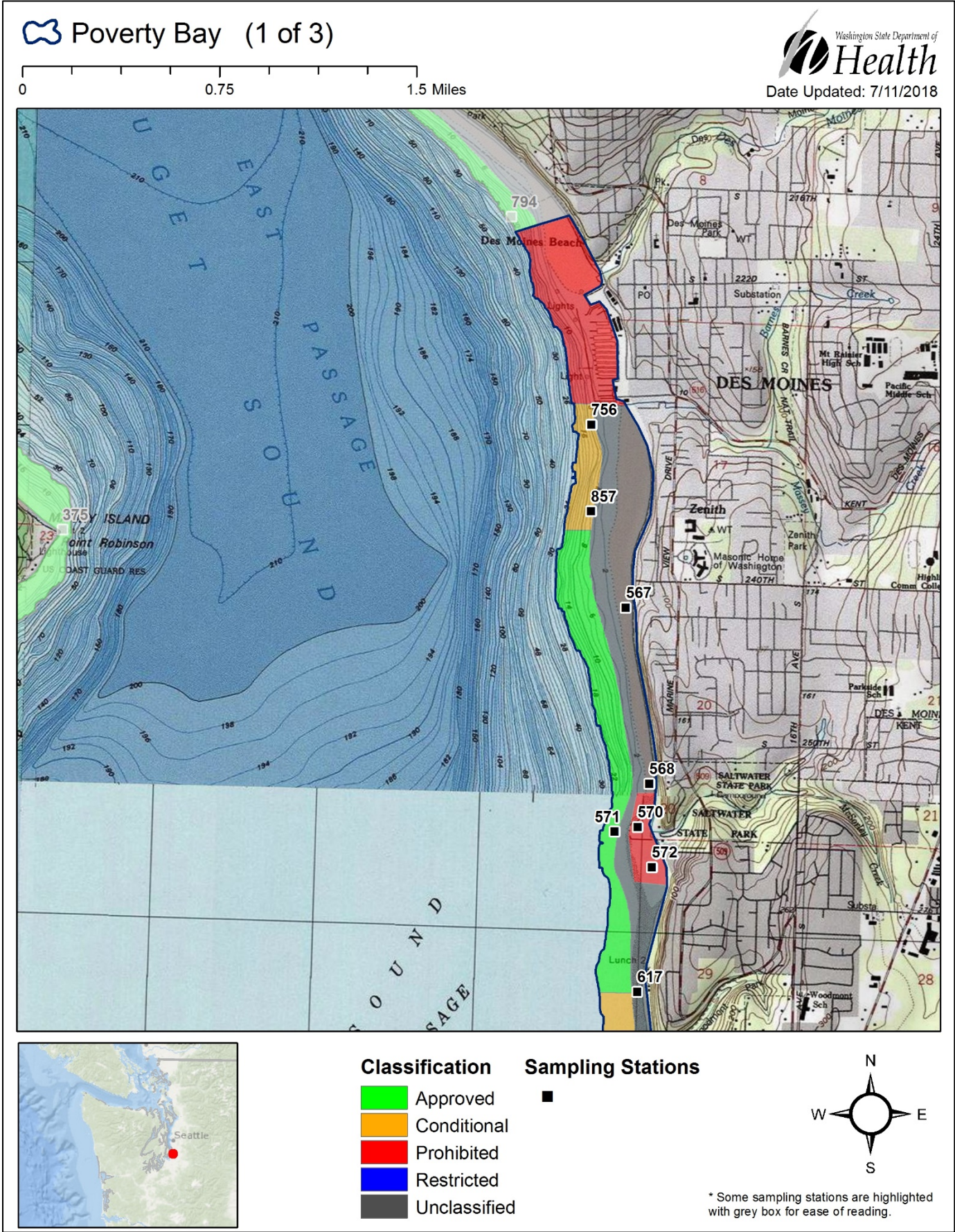
Sampling Event Type: Regulatory

Tides included: All

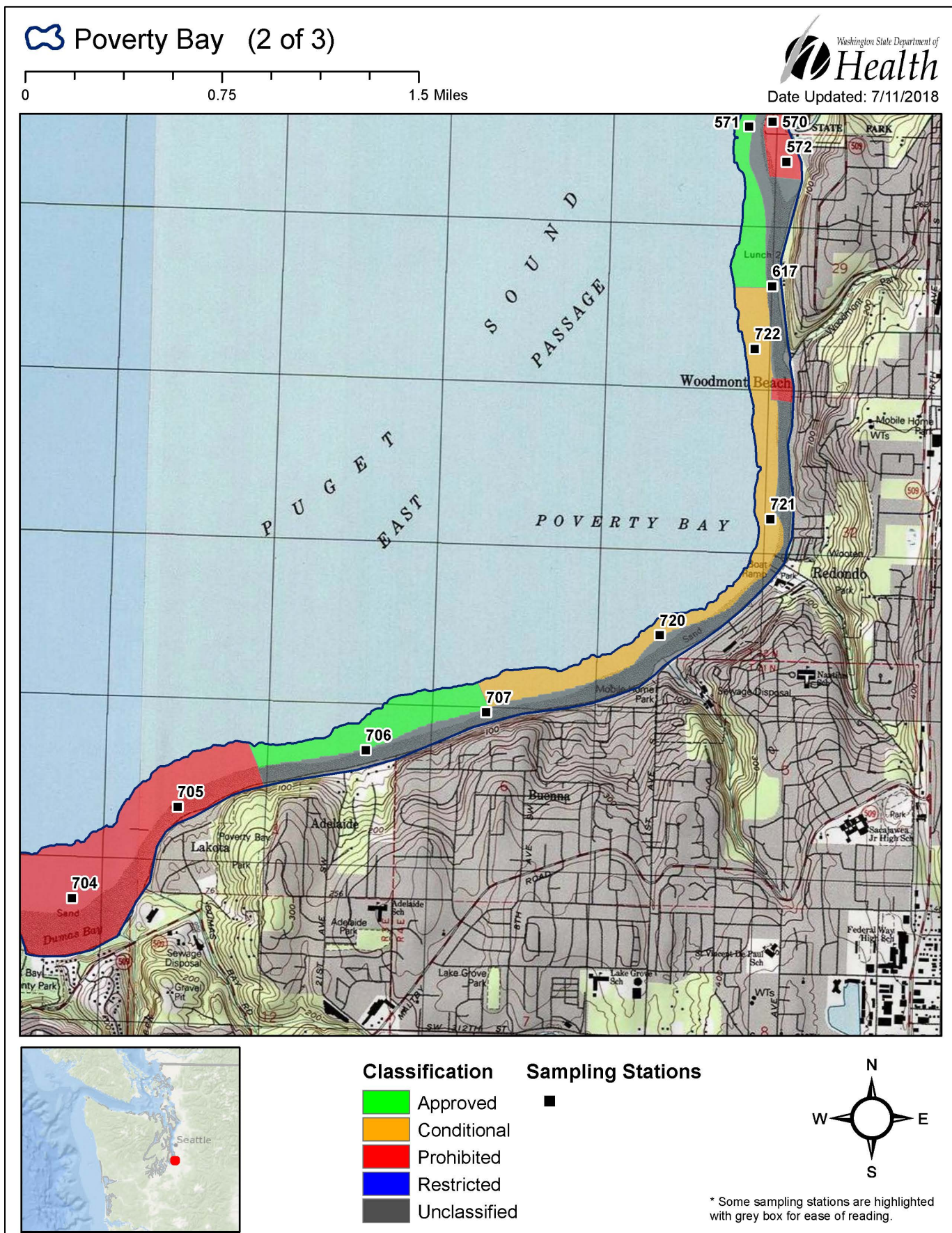
Includes data for last 30 samples during Open Period (December 1 through May 31)

| Station Number | Classification         | Date Range             | Range (FC/100mL) | Geomean (FC/100mL) | Est. 90 <sup>th</sup> Percentile (FC/100mL) | Meets Standard |
|----------------|------------------------|------------------------|------------------|--------------------|---------------------------------------------|----------------|
| 720            | Conditionally Approved | 4/18/2016 - 12/16/2020 | 1.7 - 540.0      | 4.0                | 25.5                                        | Y              |
| 721            | Conditionally Approved | 2/1/2016 - 12/16/2020  | 1.7 - 33.0       | 2.8                | 9.5                                         | Y              |
| 722            | Conditionally Approved | 10/7/2015 - 12/16/2020 | 1.7 - 23.0       | 2.5                | 6.4                                         | Y              |
| 756            | Conditionally Approved | 2/1/2016 - 12/16/2020  | 1.7 - 46.0       | 2.9                | 10.7                                        | Y              |
| 857            | Conditionally Approved | 2/1/2016 - 12/16/2020  | 1.7 - 13.0       | 2.0                | 3.6                                         | Y              |

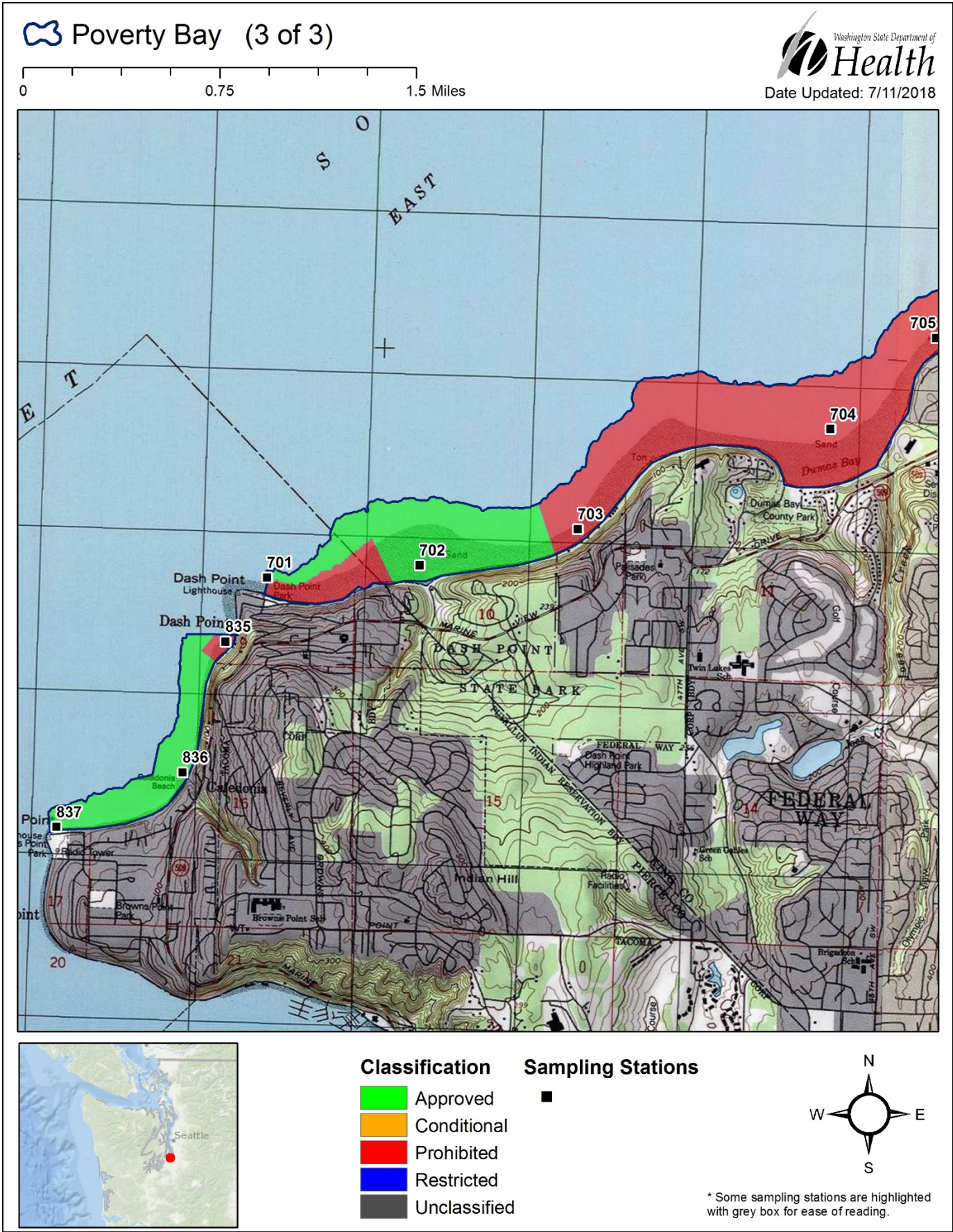
MAP 1. Poverty Bay Growing Area 1 of 3



## MAP 2. Poverty Bay Growing Area 2 of 3



MAP 3 Poverty Bay Growing Area 3 of 3



# Annual HIGHLINE STORMFEST



# Stormfest Overview

## What is StormFest?

StormFest is an interactive field-based stormwater science educational program for 6th grade students. In one or two days, students rotate through hands-on education stations and learn about their local watershed, the animals that live in them, sources of pollution, and engineering and behavioral solutions to prevent stormwater pollution.

### *Developed by:*



# COVID-19 Pandemic Impacts & Response

- ▶ Highline Stormfest was originally scheduled for Spring 2020 (April/May target)
- ▶ When things started shutting down, the Stormfest Planning Team began discussing & planning for alternative options:
  - ▶ Reschedule for Fall 2020?
  - ▶ Adapt the event for a virtual experience?
- ▶ By summer 2020 when the fall event seemed infeasible, the team worked quickly to create a virtual experience for the 3<sup>rd</sup> quarter of the school year (Spring 2021).



# Highline Stormfest → Stormwater Challenge

- ▶ Due to the importance of experiential learning in Stormfest, the Team opted to rebrand the event for as long as the virtual event is necessary.
- ▶ Project Launch -



## The Action:

We need 21st century solutions to stormwater impacts!  
We need to plan for stormwater runoff, and that's where you come in!

**How can we design a school campus that sustainably uses  
rainwater and protects our local watershed?**



## Lesson Plans

- ▶ The Water Cycle & Watersheds
- ▶ Watershed Health
- ▶ Stormwater Solutions
- ▶ Rain Garden Design Presentations

## Weather & Climate Unit

Stormwater Challenge  
Day 6: Water Quality-  
Macroinvertebrates



# Rain Garden Installation

Seahurst & Hilltop Schools



## Looking Ahead

- ▶ We are hopeful that our 2022 event can be an in-person Highline Stormfest.
- ▶ We will be collected survey data to evaluate the effectiveness of the Stormwater Challenge in the case where a 2022 in-person event is infeasible.



# City of Des Moines



PLANNING, BUILDING AND PUBLIC WORKS  
[www.desmoineswa.gov](http://www.desmoineswa.gov)  
 21650 11TH AVENUE SOUTH  
 DES MOINES, WASHINGTON 98198-6317  
 (206) 870-6522 FAX (206) 870-6596



5/21/2021

Kim Harper  
 Grants Administrator  
 King Street Center  
 201 S. Jackson St., Suite 5600  
 Seattle, WA 98104

RE: McSorley Creek Shoreline and Pocket Estuary Restoration project – Final Design

Dear Ms. Harper,

As a member of the Green/Duwamish and Central Puget Sound Watershed (WRIA 9) Ecosystem Forum, the City of Des Moines highly supports the McSorley Creek Shoreline and Pocket Estuary Restoration Project grant application. This project is very important to salmon recovery and is listed as a Tier 1 (high) priority nearshore project in the watershed. When completed, the project directly addresses several key strategies in the 2020 Salmon Habitat Plan, which the City plans to ratify later this year. Such strategies include:

- Protecting, restoring and enhancing marine shorelines,
- Restoring functional nearshore habitats, and
- Public awareness and education.

The McSorley Creek project represents an excellent opportunity to restore the function to a significant nearshore pocket estuary habitat, of which over 99% of been lost across the Puget Sound. The project also proposes to remove over 1,000 linear feet of shoreline armoring thereby reducing the extent of shoreline armoring, of which 88% of Puget Sound shorelines are currently armored.

The City does have some concern of impacts to several shoreline properties located immediately north of the project that have recently experienced landslide activity. The City will be reviewing potential project impacts to these properties and is anticipating that the design will incorporate ways to mitigate such impacts during the final design and permitting phase of the project.

We appreciate King County Flood Control District taking an interest in helping our watershed and the salmon recovery efforts being made by the WRIA 9 Ecosystem Forum.

Thank you,

Michael Matthias  
City Manager  
City of Des Moines, WA  
21630 11<sup>th</sup> Ave S  
Suite A  
Des Moines WA, 98198