

# Industrial Stormwater Workshop will begin soon

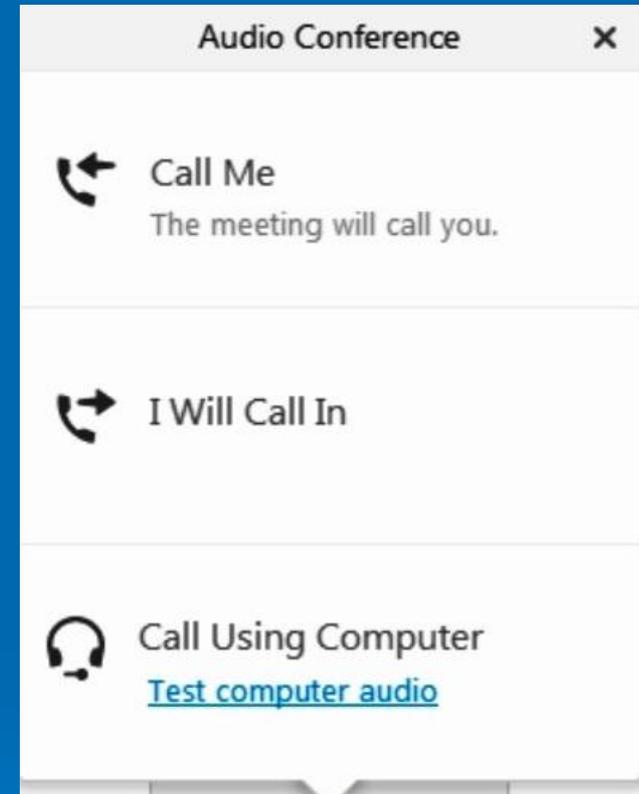
## Connecting to Audio: 3 Options

### Phone (**best sound quality**)

1. Select “Call Me”
  - Enter your phone number
  - You will be called
2. Or select “I Will Call In” and dial the number provided

### Computer microphone and speakers

3. Select “Call Using Computer” and follow directions



# Industrial Stormwater Workshop

The webinar is starting – you should be able to hear us now!

The screenshot displays the Cisco WebEx Meeting Center interface. The main content area shows a slide with the following text:

Industrial Stormwater  
Discharges to Puget Sound  
Sediment Cleanup Sites

Jeff Killelea  
March 21, 2016  
Workshop/Webinar

The slide also features the logo for the Department of Ecology, State of Washington, which includes a stylized landscape with a sun, green hills, and blue water.

The interface includes a top menu bar with options like File, Edit, Share, View, Audio, Participant, Meeting, and Help. Below this is a toolbar with icons for Quick Start, Meeting Info, Water Qualit..., and New Whiteboard. On the right side, there are icons for Participants, Chat, and Notes. A red circle highlights the Participants icon, and a red arrow points from it to the Chat icon. Below the Chat icon, the text reads: "For technical assistance, use Chat!".

The bottom of the interface shows a "Connected" status indicator.

# Industrial Stormwater Discharges to Puget Sound Sediment Cleanup Sites

Jeff Killelea  
March 21, 2016  
Workshop/Webinar



# Puget Sound Sediment Cleanup Sites

- ISGP requires additional protections for impaired waterbodies
- Discharges to Puget Sound Sediment Cleanup Sites must:
  - Sample TSS; benchmarks or limits depending on category
  - Storm drain solids sampling – physical and chemical testing on-site solids
  - Storm drain line cleaning – to remove accumulated solids

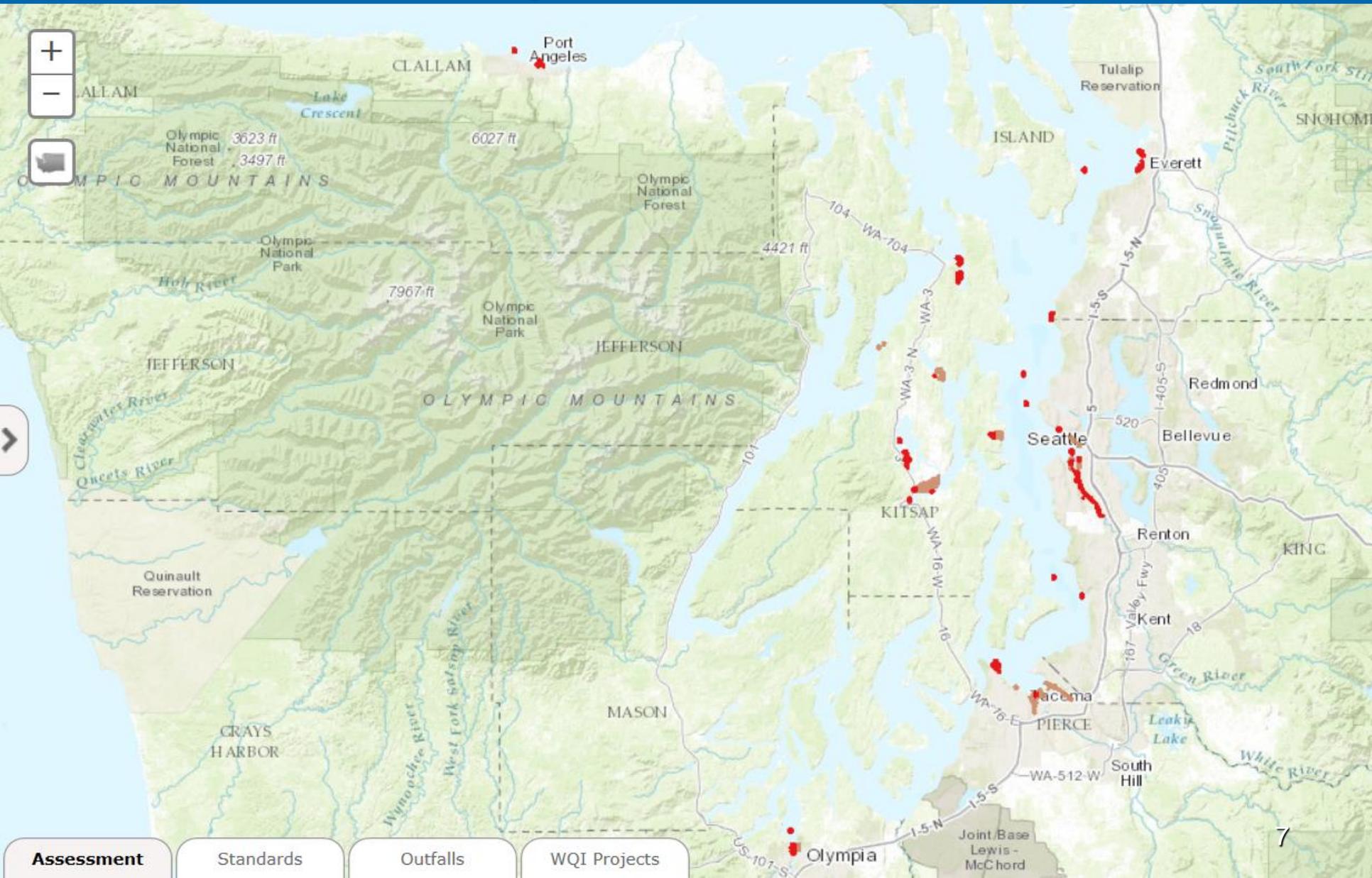
# Puget Sound Sediment Cleanup Sites

- Which ISGP facilities are affected?
- What is required?
- What are the deadlines?
- What if more time is needed to comply?
- How to get additional information?

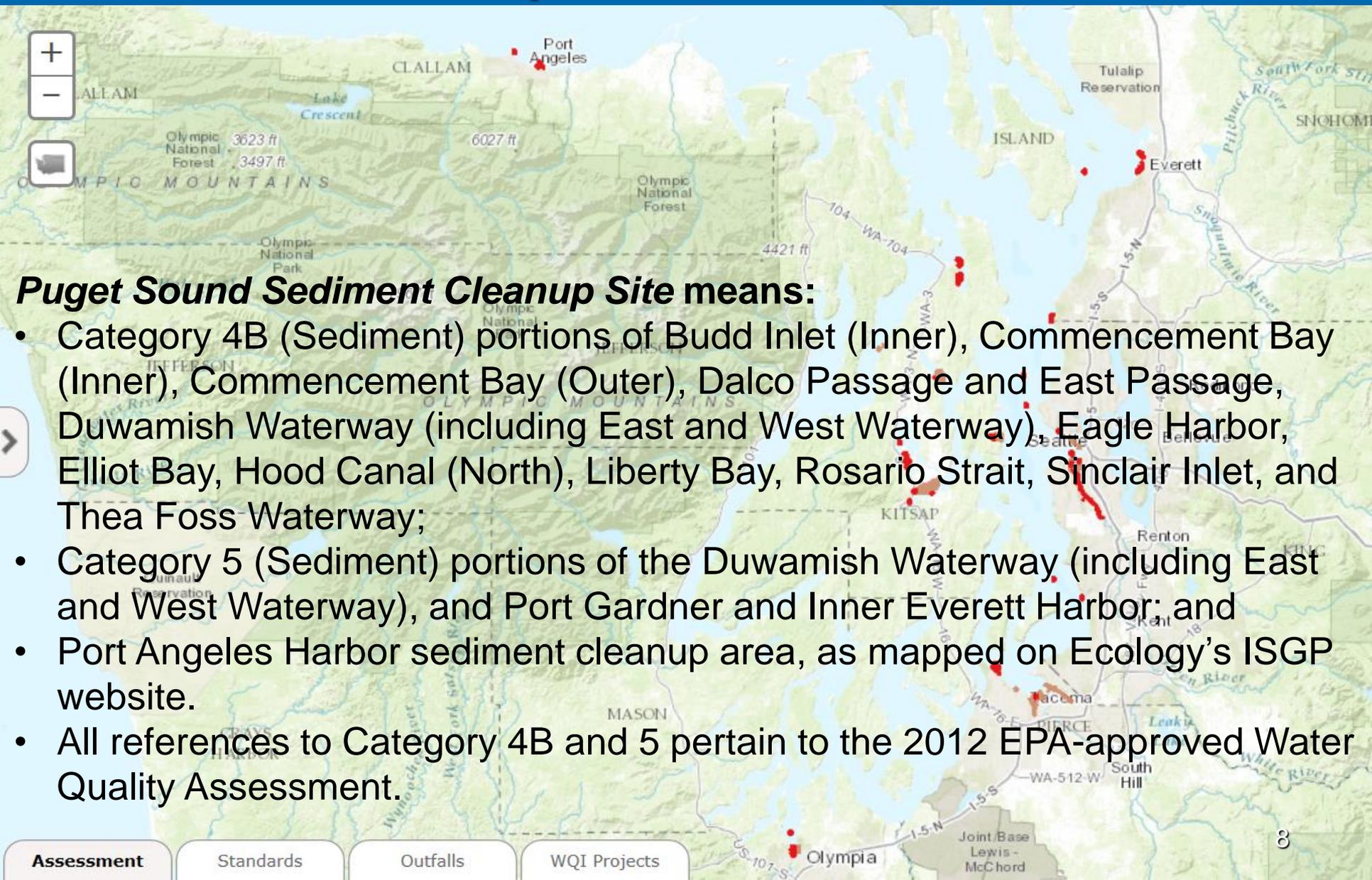
# Puget Sound Sediment Cleanup Sites

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# Sediment-Impaired Marine Waters



# Sediment-Impaired Marine Waters



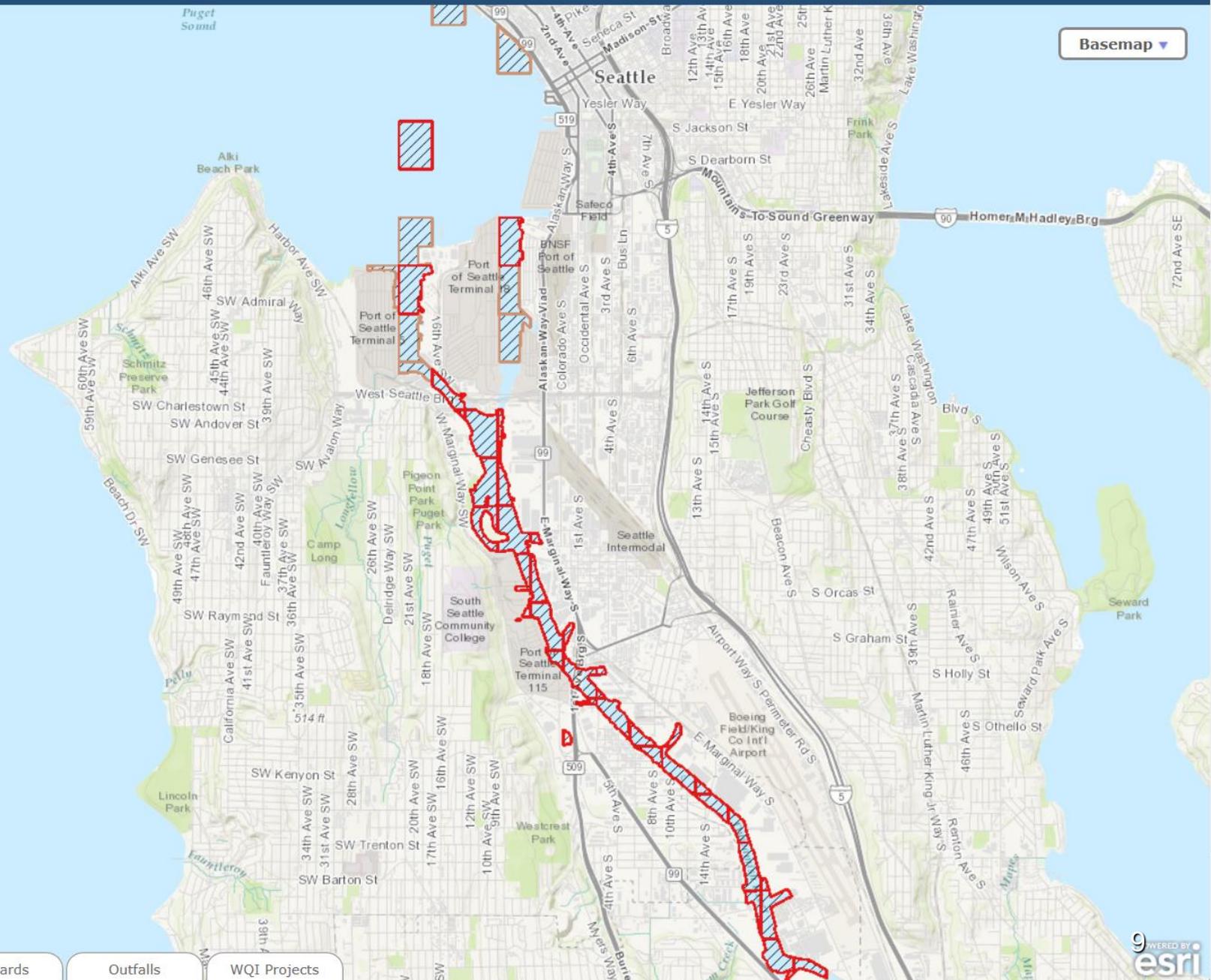
## ***Puget Sound Sediment Cleanup Site means:***

- Category 4B (Sediment) portions of Budd Inlet (Inner), Commencement Bay (Inner), Commencement Bay (Outer), Dalco Passage and East Passage, Duwamish Waterway (including East and West Waterway), Eagle Harbor, Elliot Bay, Hood Canal (North), Liberty Bay, Rosario Strait, Sinclair Inlet, and Thea Foss Waterway;
- Category 5 (Sediment) portions of the Duwamish Waterway (including East and West Waterway), and Port Gardner and Inner Everett Harbor; and
- Port Angeles Harbor sediment cleanup area, as mapped on Ecology’s ISGP website.
- All references to Category 4B and 5 pertain to the 2012 EPA-approved Water Quality Assessment.

Home



Basemap ▾

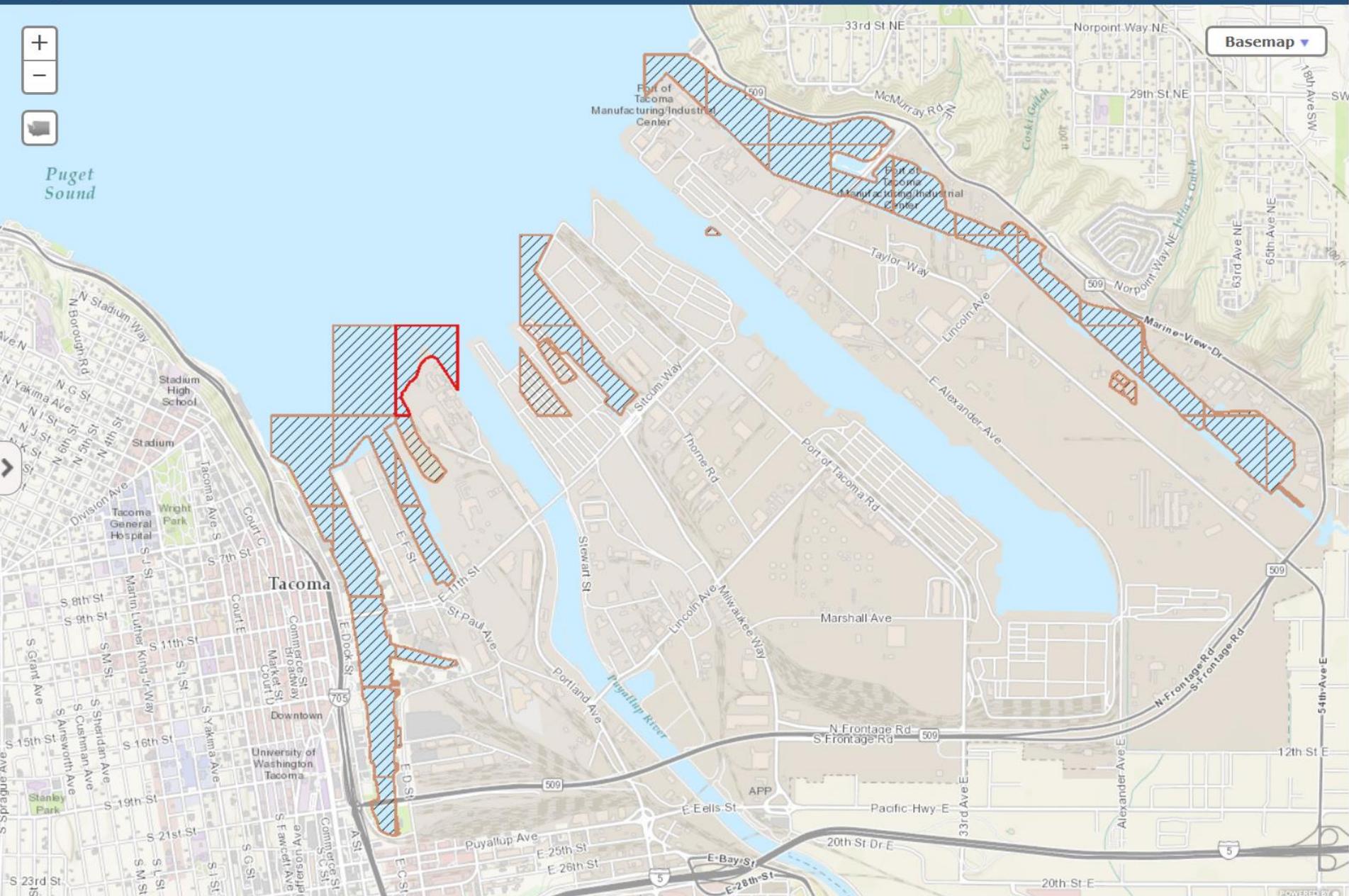


Home



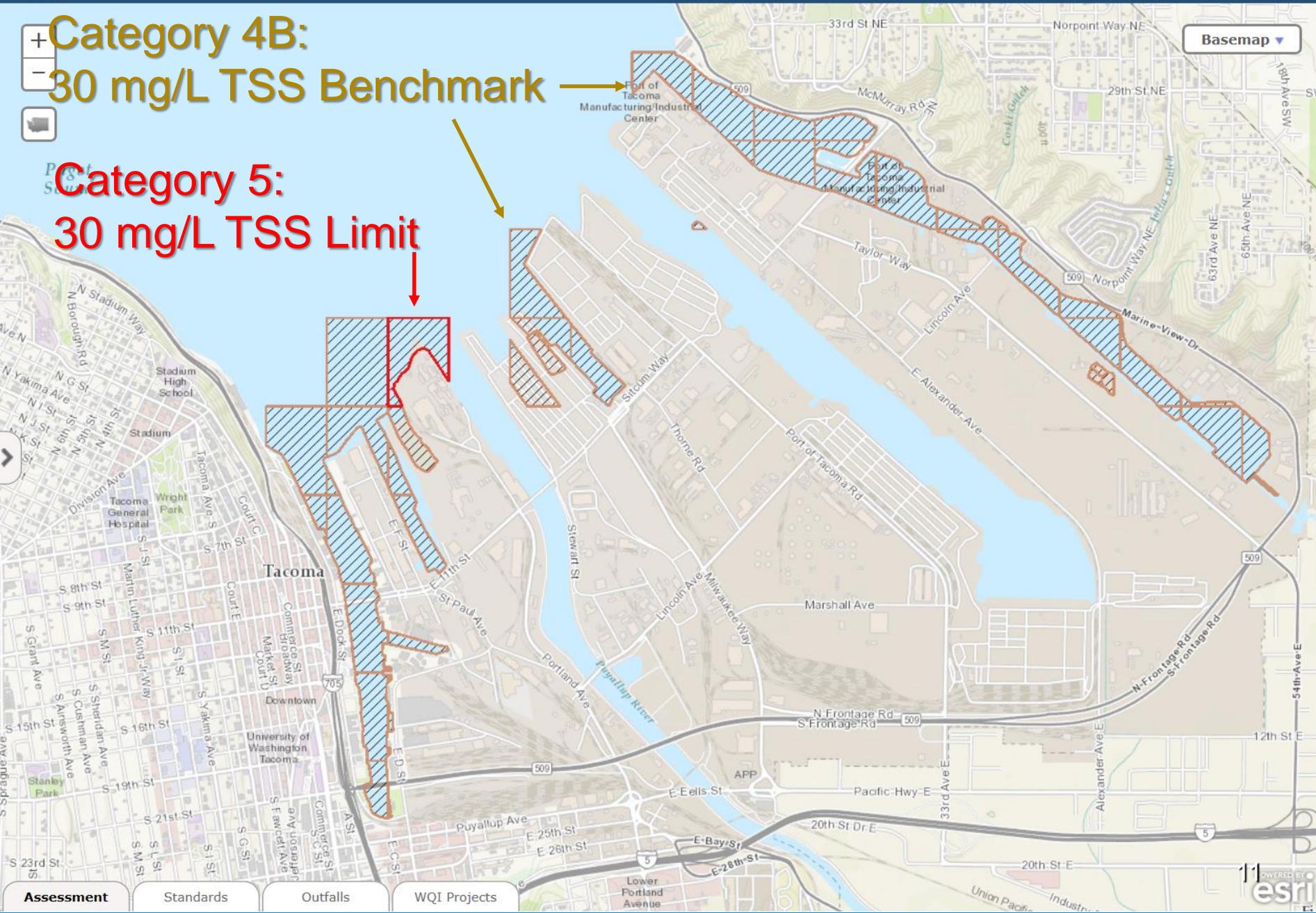
Puget Sound

Basemap ▾



**Category 4B:**  
**30 mg/L TSS Benchmark**

**Category 5:**  
**30 mg/L TSS Limit**

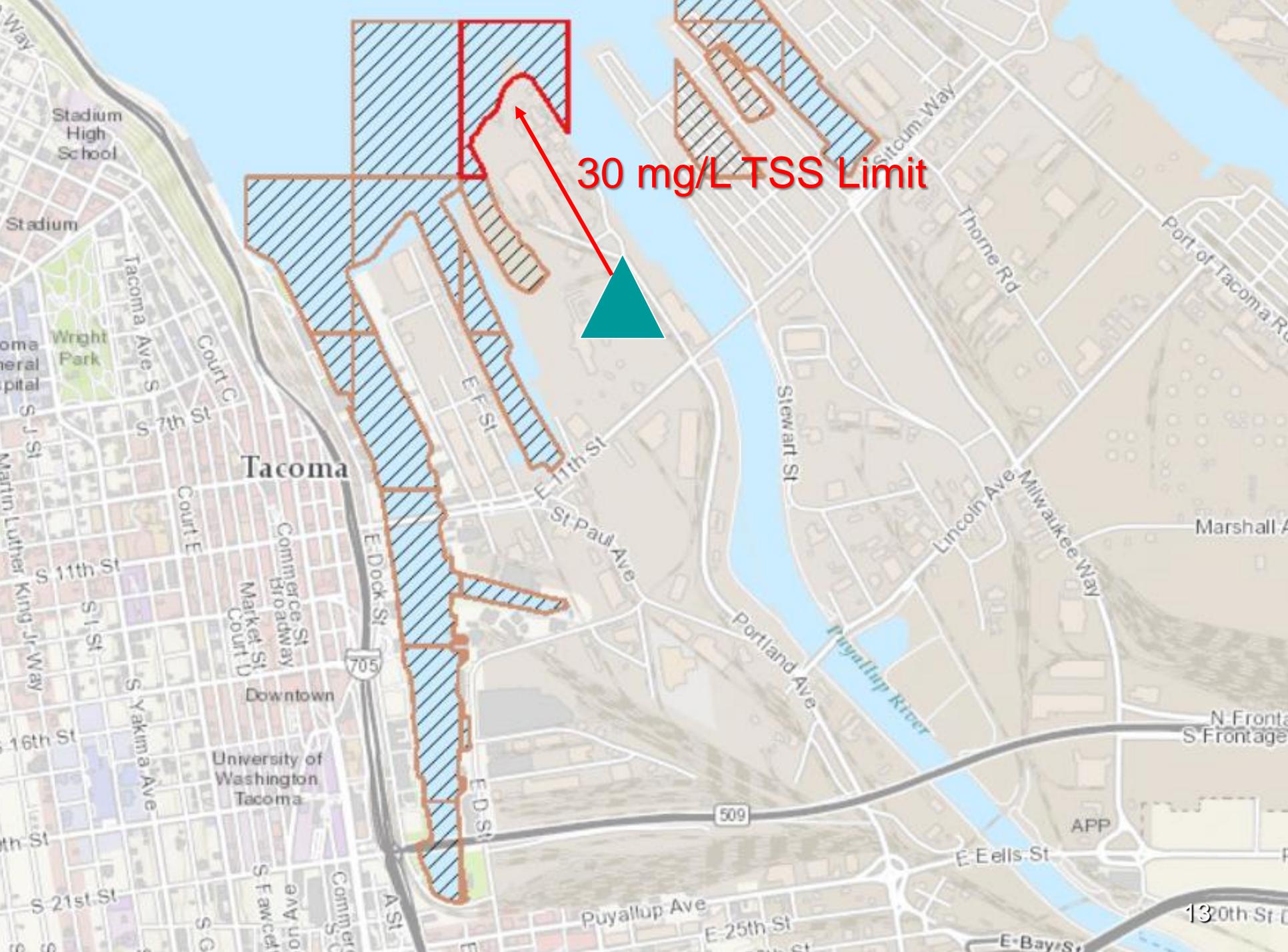


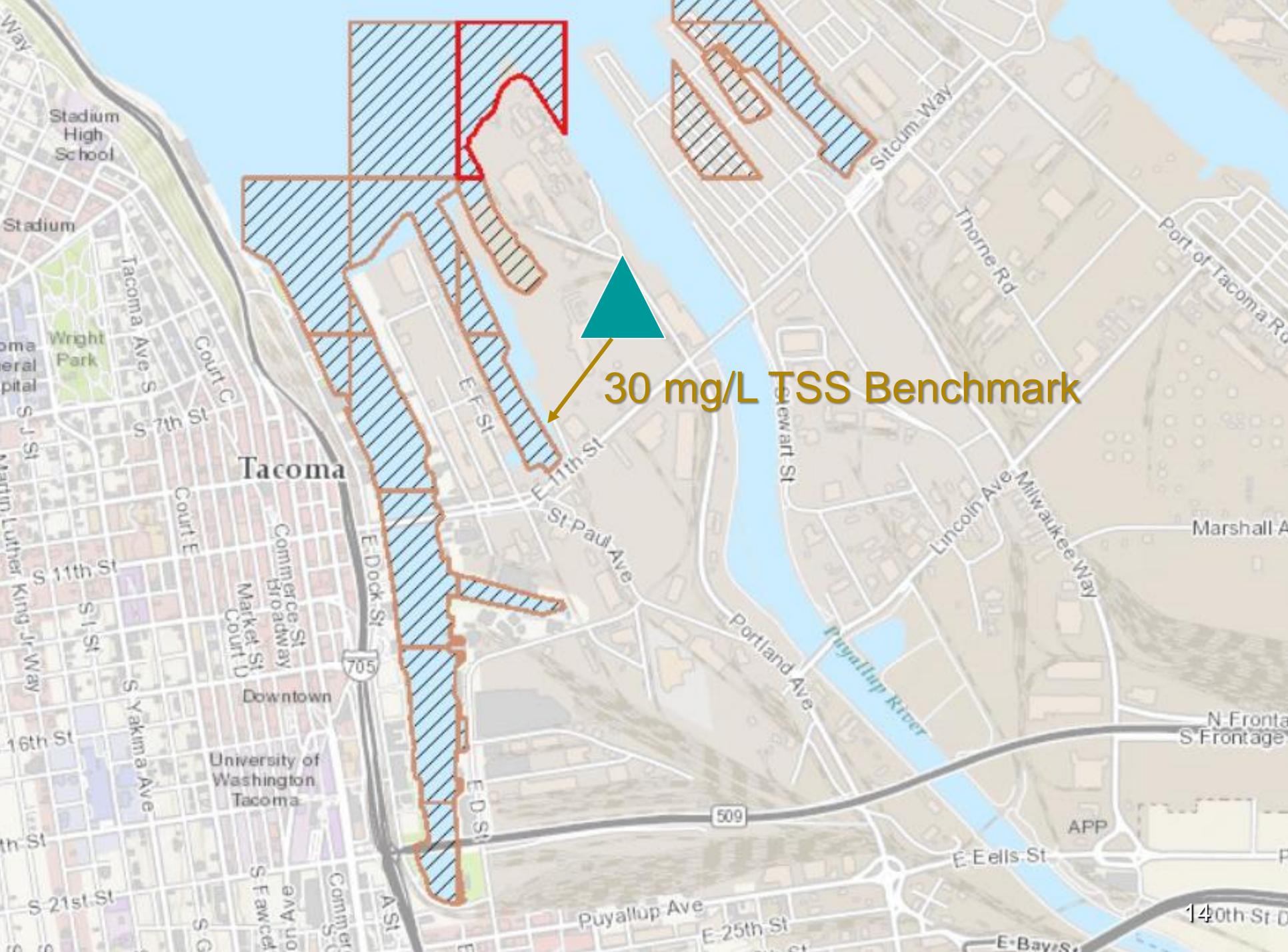


## Hypothetical Facility

- *Where does stormwater flow off-site?*
- *Where does the municipal stormwater system drain to?*
- *Where does it enter the receiving waterbody?*

30 mg/L TSS Limit





30 mg/L TSS Benchmark

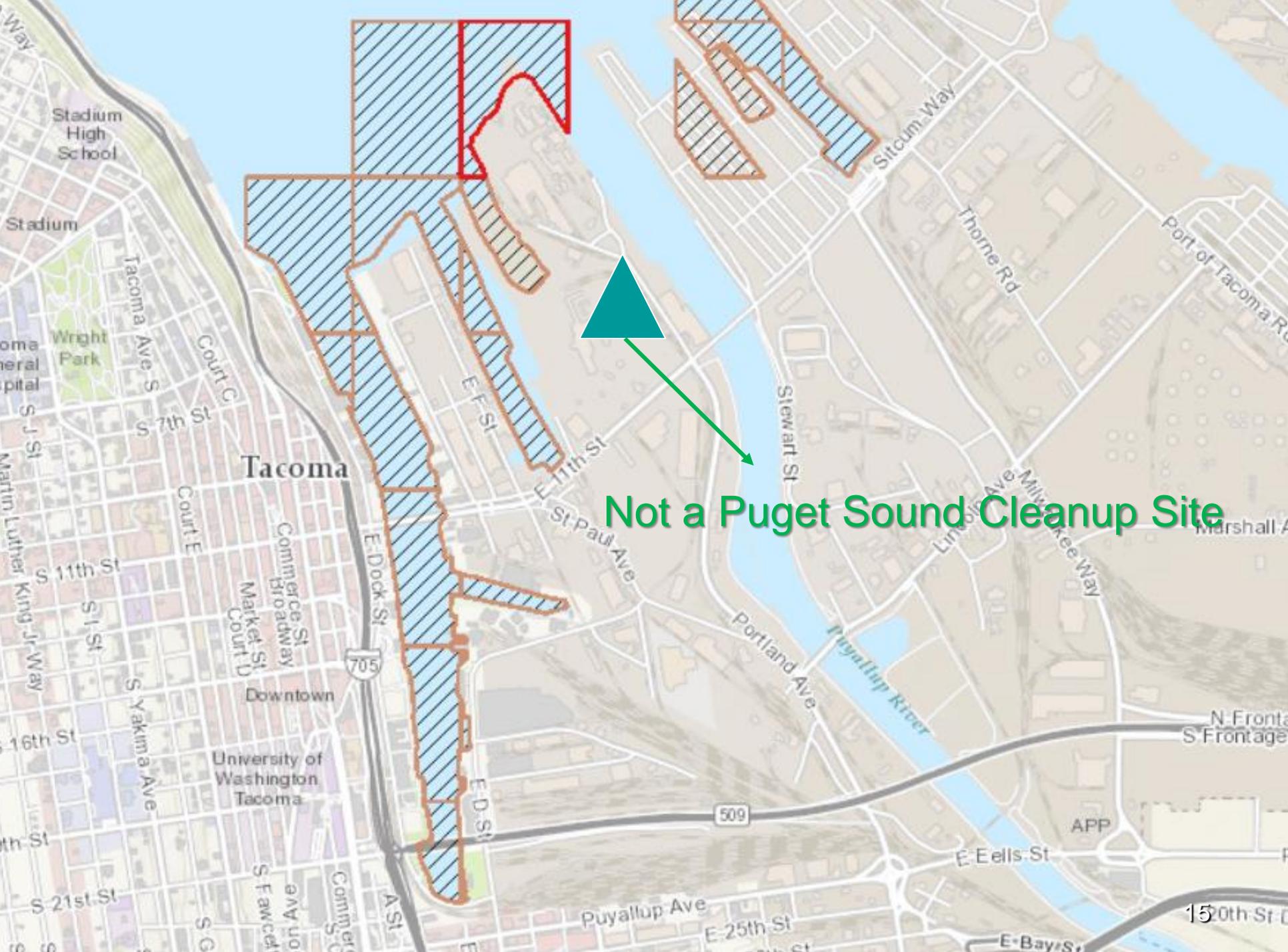
Tacoma

Puyallup River

705

509

140th St D



Not a Puget Sound Cleanup Site

# Appendix 4: List of Affected Facilities

**Information**  
 This report provides a listing of permits and monitoring points that discharge to either a to 303(d)-listed waters and Puget Sound Sediment Cleanup Sites. There are additional default views setup for viewing the Industrial and Construction Stormwater Appendix 4/5 data.

The report includes the parameters and their respective benchmark/limits.

**Only active permits are shown in this report.**

## Impaired Water Body Limits

Go Reports **4. Industrial Stormwater 303(d)** Actions

- Alternative Default: Industrial Stormwater 303(d)
- Parameter = 'Solids (Residue)'
- Parameter Impairment in '303(D), 303(d)/Puget Sound Sediment Cleanup, Puget Sound Sediment Cleanup'
- Permit Type = 'Industrial SW GP'

Facility Name	Permit Number	Permit Type	Permit Status	City	County	Monitor Pt Code	Monitor Pt Description	Parameter	Fraction	Units	Statistical Base	Parameter Impairment
<a href="#">EMERALD SERVICES INC</a>	WAR002641	Industrial SW GP	Active	Seattle	King	A	AFTER OIL/WATER SEP	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Single Sample	303(d)/Puget Sound Sediment Cleanup
<a href="#">EMERALD SERVICES INC</a>	WAR002641	Industrial SW GP	Active	Seattle	King	A	AFTER OIL/WATER SEP	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Maximum	303(d)/Puget Sound Sediment Cleanup
<a href="#">Charles Air Hangar - Starbucks</a>	WAR127177	Industrial SW GP	Active	Tukwila	King	001	Discharge to Duwamish River	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Single Sample	303(d)/Puget Sound Sediment Cleanup
<a href="#">Charles Air Hangar - Starbucks</a>	WAR127177	Industrial SW GP	Active	Tukwila	King	001	Discharge to Duwamish River	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Maximum	303(d)/Puget Sound Sediment Cleanup
<a href="#">SAMSON TUG &amp; BARGE SEATTLE FAC</a>	WAR011484	Industrial SW GP	Active	Seattle	King	OUT1	OUT1	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Single Sample	303(d)/Puget Sound Sediment Cleanup
<a href="#">SAMSON TUG &amp; BARGE SEATTLE FAC</a>	WAR011484	Industrial SW GP	Active	Seattle	King	OUT1	OUT1	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Maximum	303(d)/Puget Sound Sediment Cleanup
<a href="#">BOEING SOUTH PARK</a>	WAR001009	Industrial SW GP	Active	Seattle	King	SP1	DISCHARGE 1	Solids (Residue)	Total suspended (TSS)	Milligrams/L (mg/L)	Single Sample	303(d)/Puget Sound Sediment Cleanup

# Site-Specific Questions?

- Unsure if your facility discharges to a Puget Sound Sediment Cleanup Site?
- Need to report an error with Ecology's records? We can fix it!
- Want to double-check?

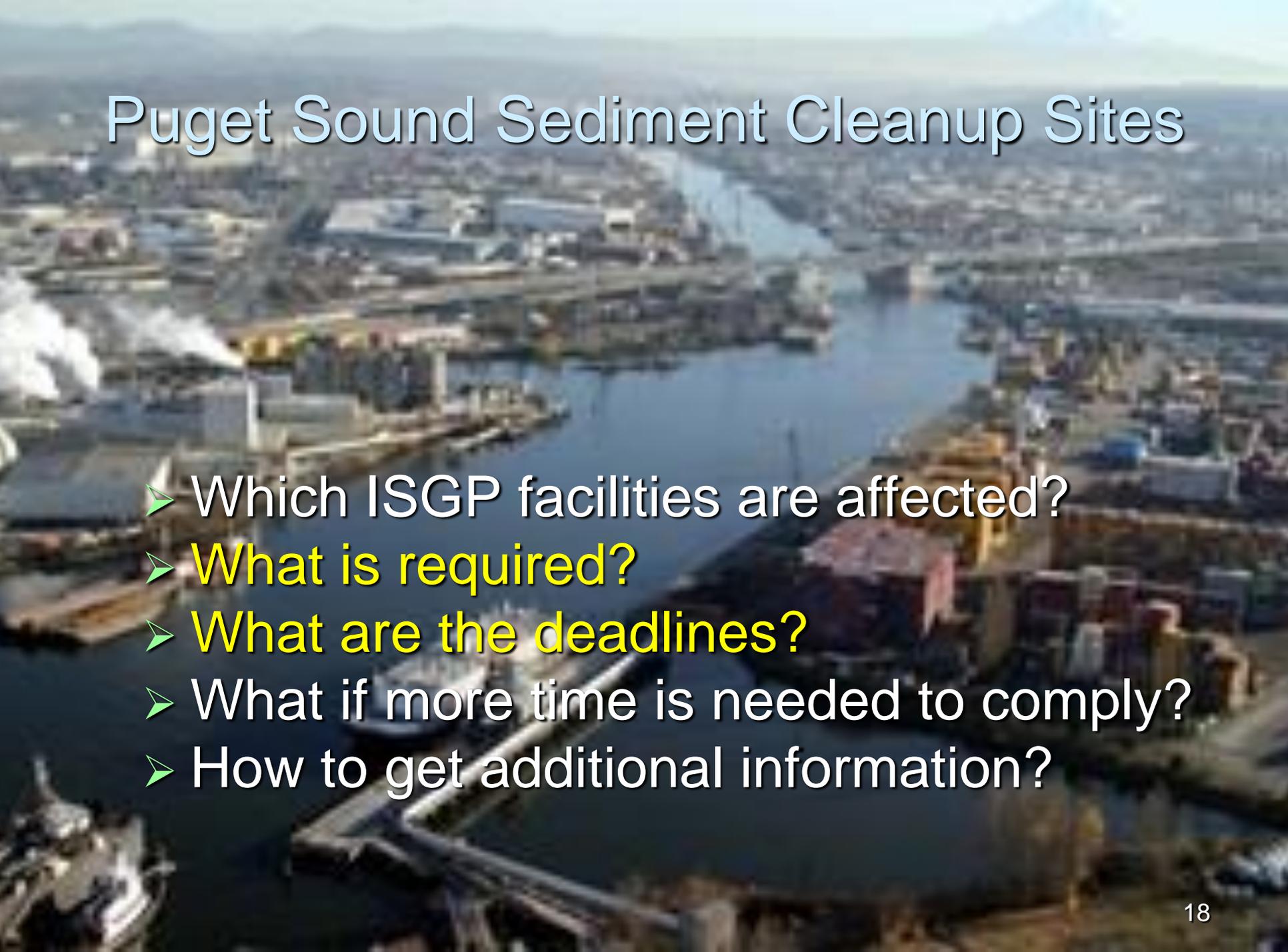
## Contact:

Jeff Killelea

[Jeff.Killelea@ecy.wa.gov](mailto:Jeff.Killelea@ecy.wa.gov)

360-407-6127

# Puget Sound Sediment Cleanup Sites



- Which ISGP facilities are affected?
- **What is required?**
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# Puget Sound Sediment Cleanup Sites

- Total Suspended Solids (TSS) – sample and report quarterly
  - Beginning 1/1/17\*, If Category 5 receiving water: 30 mg/L TSS *Limit*
  - Beginning 1/1//17: If Non-Category 5: 30 mg/L *Benchmark*

*\*Unless Cat. 5 TSS limit was applicable under 2010-2015 ISGP*

# Puget Sound Sediment Cleanup Sites

## ➤ Storm Drain Line Cleaning

- One time, prior to Oct 1, 2016
- Waivers/Extensions

## ➤ Storm Drain Solids Sampling

- One time, prior to Oct 1, 2016
- Metals, PAH, PCB
- Submit data w/DMR
- Waivers/Extensions



3:00 PM  
8/5/2013  
27.1 FT

Cam Dir: Upstream

Upstream node: 092346  
Downstream node: 092

7/31/2019  
11:27 AM  
6.0 FT

Can Dig: Downstream

Upstream node: D Line#6 Vault  
Downstream node: 006

# Storm Drain Solids Sampling



- From a *representative* catch basin, sump, pipe, or other feature within the storm drain system.
- Location must be within the *drainage area* where TSS samples are collected.

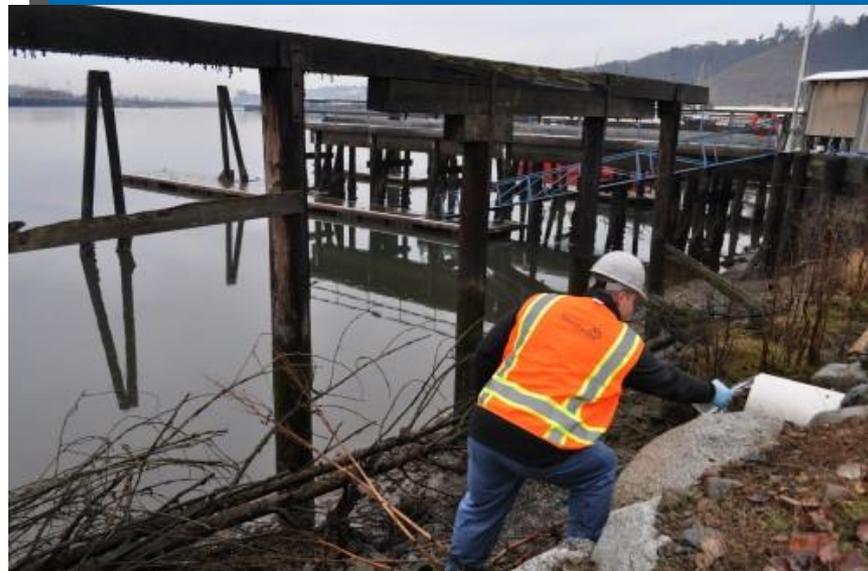


## Stormwater Sampling Manual

### A guide for the Industrial Stormwater General Permit

December 2015

Publication No. 15-03-044











SAIC NPDES Inspection  
Sampling Support  
Sample ID: MME-115  
Date: 11/26/13 Time: 2013 0626  
Matrix: solids Lab: ARI

In protection

# Storm Drain Solids Sampling

Parameter group	Individual parameters	Mixing bowl and spoon	Cleaning the bowl	Estimated volume of sample
Conventionals	Percent total solids, total organic carbon, and grain size	Plastic or stainless steel	Soap	~ 250ml (8 oz) glass or plastic jar for each individual parameter
Metals	Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc	Plastic	Soap	1 – 250ml (8 oz) glass jar
Organics	PAHs, PCBs, and TPH-Dx	Stainless steel	Soap and solvent	~ 250ml (8 oz) glass jar w/ Teflon lined cap for each individual parameter

Catch basin solid grab samples do not need to be sampled during a storm, in fact they should be collected following storms when there is little water overlying the solids in the catch basin, sump or area of accumulation in the conveyance line. If there is overlying water, siphon or pump the water off without disturbing the solids; leave a thin layer of water intact.

# Storm Drain Solids Sampling

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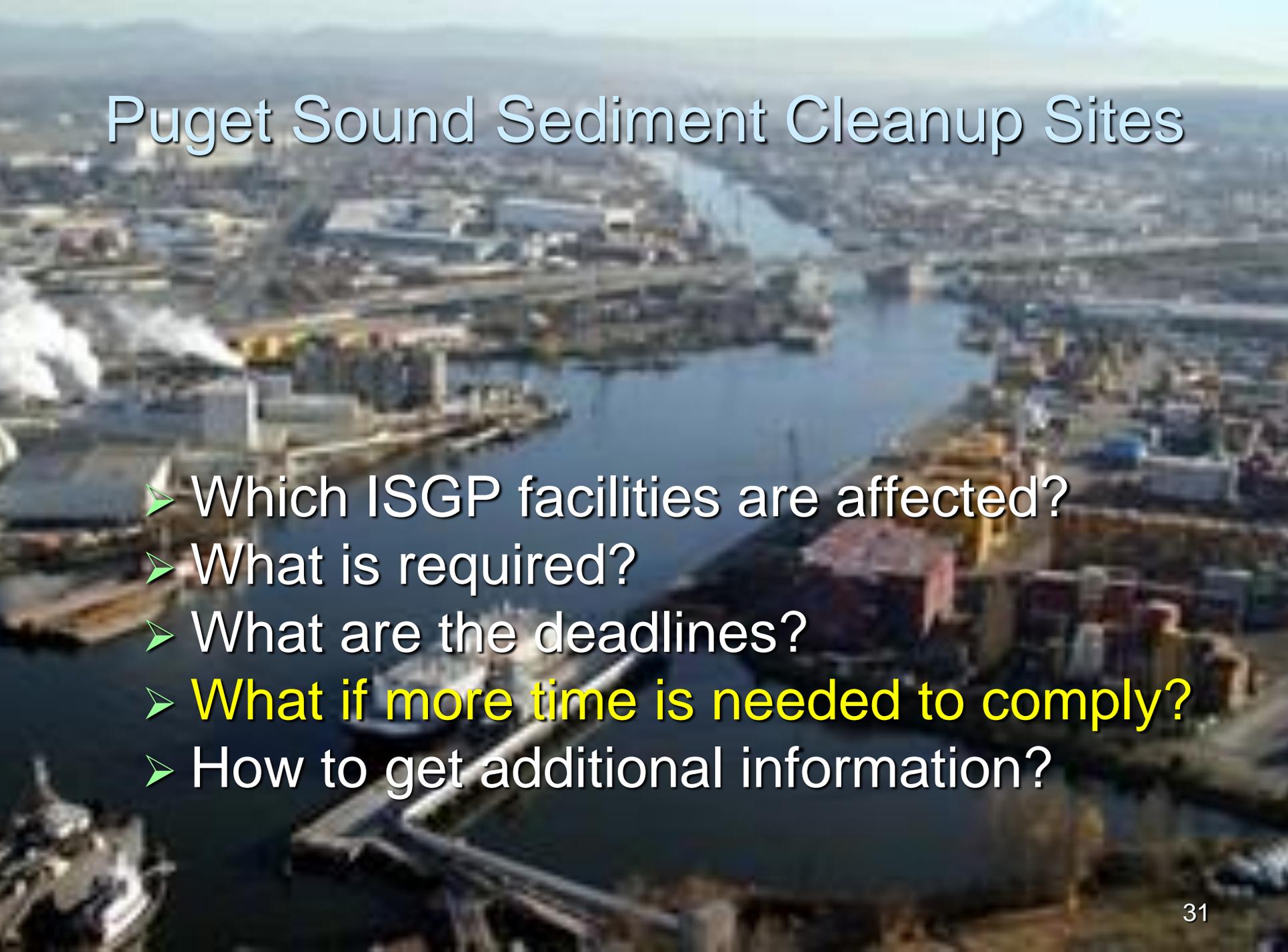
1

3

**Total Jars = 7**

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# Puget Sound Sediment Cleanup Sites



- Which ISGP facilities are affected?
- What is required?
- What are the deadlines?
- **What if more time is needed to comply?**
- How to get additional information?

# Time Extensions?

- **Time extensions** available if Permittee can demonstrate that it's not *feasible* to meet Oct 1, 2016 deadlines
  - Modification of Permit Coverage Form
    - w/ Detailed technical basis
  - Public Notice Required
  - **Requests due May 15, 2016**

# Line Cleaning Waivers?

- **Waivers** available if Permittee can demonstrate that storm drain line cleaning is not *necessary*
  - Modification of Permit Coverage Form
    - w/ Detailed technical basis
  - Public Notice Required
  - **Requests due May 15, 2016**

# Solids Sampling Waivers?

- **Waivers** available if solids sampling is not *feasible* or not *necessary*
  - Modification of Permit Coverage Form
    - w/ Detailed technical basis
  - Public Notice Required
  - **Requests due May 15, 2016**

# Industrial Stormwater Workshop Questions?

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An aerial photograph of an industrial waterfront. A large river or harbor is the central focus, with several large cargo ships docked at piers. In the background, a dense urban area with numerous buildings and industrial structures is visible. The sky is clear and blue. The word "Questions?" is overlaid in large white text with a black outline.

# Questions?

Jeff Killelea

360.407.6127

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