

Grays Harbor O&M and Deepening Dredging

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Seattle District

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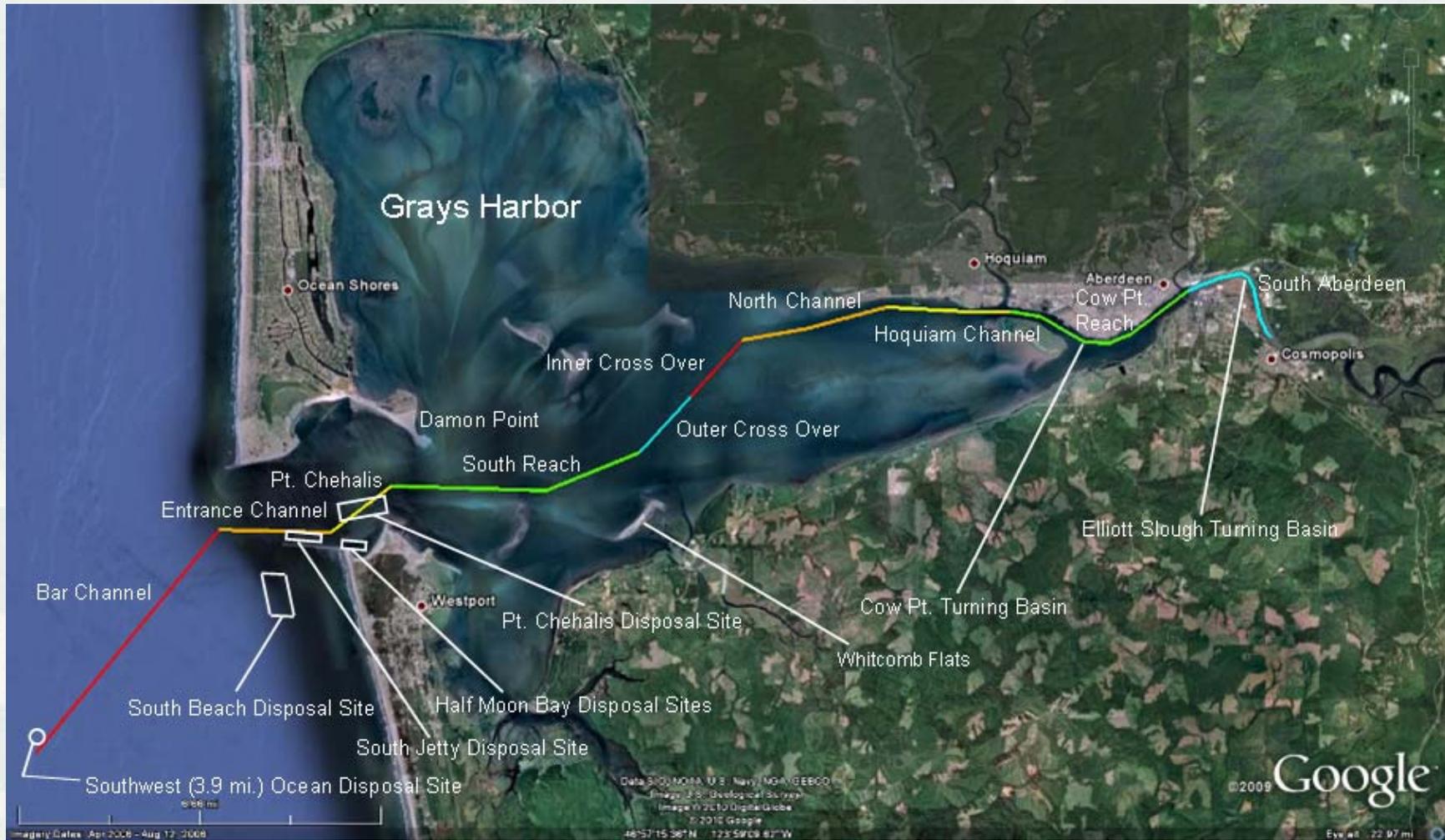


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Grays Harbor Navigation Channel



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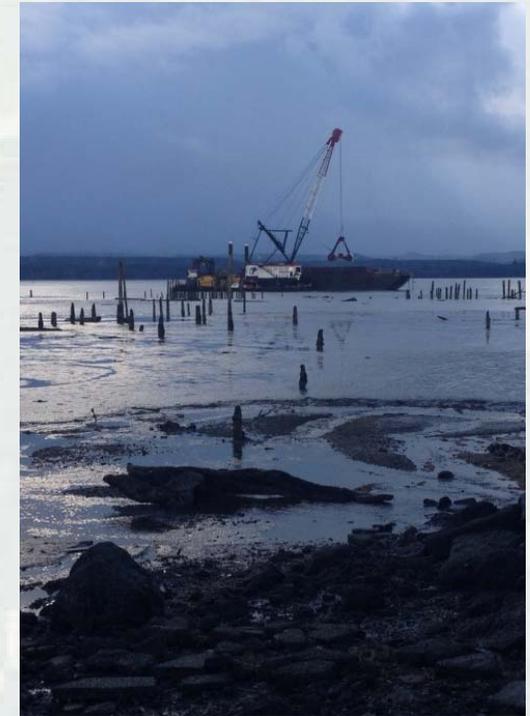
Inner Harbor O&M Dredging

Summer 2015:

- Contract award to American Construction Co.
- Dredging from 25 July thru 28 Aug 2015
- 365,863 CY dredged from Crossover, Cow Point and Turning Basin, and Hoquiam Reaches
- Ended the season at Cow Point and Turning Basin for adv maintenance and final clean out
- Disposed at PCDS/SJDS

Winter 2016:

- Contract award to American Construction Co.
- Started 17 Jan and will finish NLT 28 Feb 2016
- Expected up to 475,000 CY
- Focus on clean out of Cow Point and Turning Basin; if time, include shoal in Hoquiam Reach
- Programmatic (thru 2018) environmental package (EA/BE, WQC/WQMP, FONSI, SOF) is complete.



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Inner Harbor Combined Dredging

- New 2-year (3 work windows) Contract under development
- End of May 2016 award
- First dredging under this contract may start as early as 1 Oct 2016; completion 30 Sept 2018
- Contract structure will allow:
 - both O&M and construction (deepening)
 - ❖ 1.1M CY O&M
 - ❖ 2.2M CY construction
 - ❖ 22,000 CY unsuitable material/upland placement
 - Bi-nodal dredging (16 Jul – mid-Sep and late-Nov – 14 Feb) to accommodate Tribal gillnet fishing (work window remains as 16 Jul – 14 Feb). One Oct/Nov period will be utilized for Crossover and North Reach (reaches are not impacted by Tribal fishing).
 - Maintenance Dredging During Construction – once a reach is deepened, it is possible to return within the 2-year period for subsequent maintenance dredging.
- Material disposed at shifted PCDS/SJDS
- Programmatic (thru 2018) environmental package (EA/BE, WQC, FONSI, SOF) is complete. WQMP needs to be coordinated with WA Ecology.



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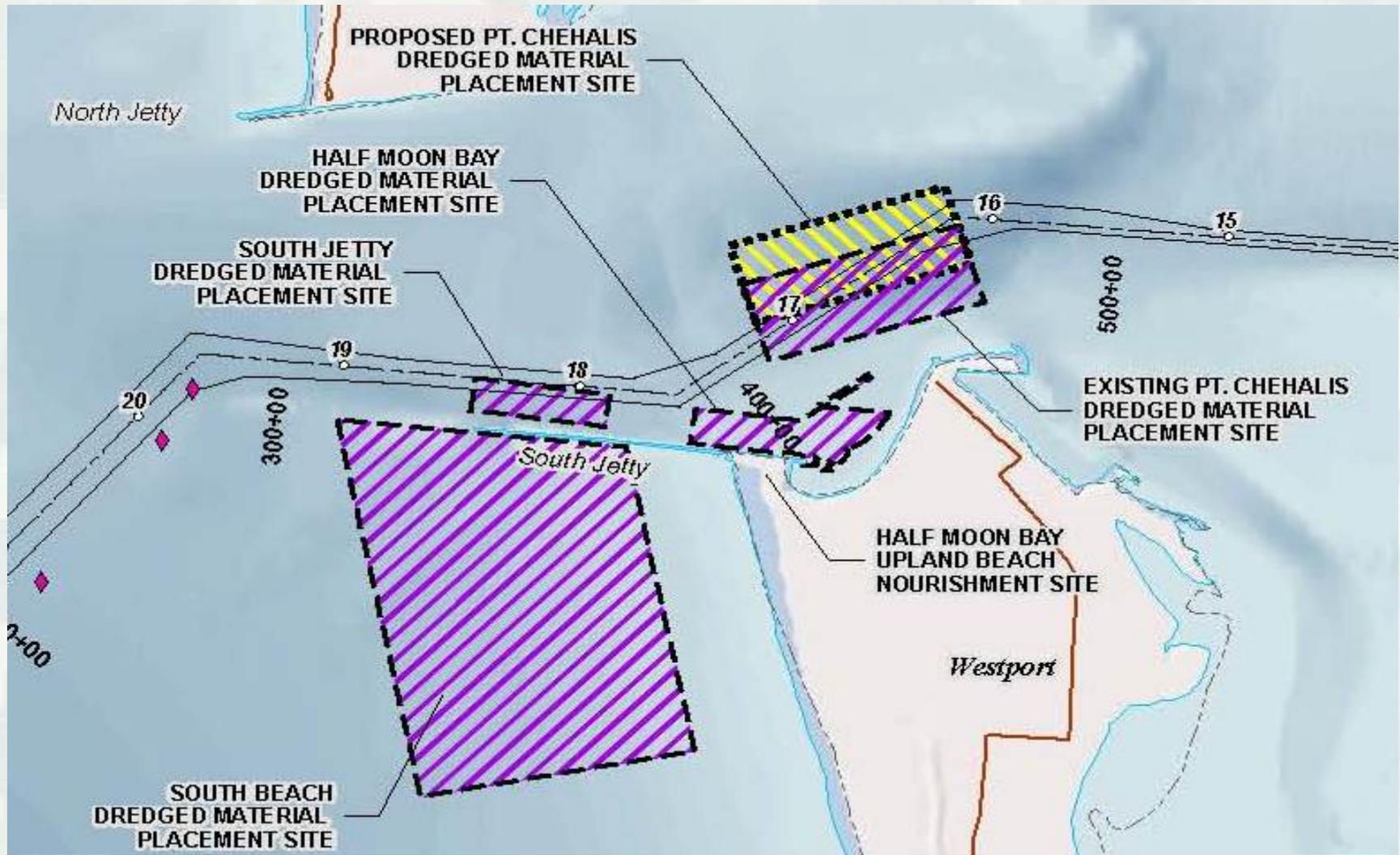
Outer Harbor O&M Dredging

- Regional Hopper (Industry) Dredge
 - Manson - BAYPORT
 - Work window is 1 April thru 31 May 2016
 - Contract awarded by Portland District
 - Maintenance dredging of Bar, Entrance, Pt. Chehalis, and South Reaches
 - Deepening South Reach, combined with maintenance dredging
- Dredge estimated 1,400,000 CY
- Dredged material disposed at SJDS/PCDS
- Programmatic (thru 2018) environmental package (EA/BE, WQC/WQMP, FONSI, SOF) is complete.



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In-water Placement Sites



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Upland Placement Site



PARCELATT	OWNER	Name	ProjAcs
056401000301	CITY OF HOQUIAM	0.64	TWA
056401000301	CITY OF HOQUIAM	0.24	TWA(Access)
056401100100	CITY OF HOQUIAM	2.68	TWA
056401100100	CITY OF HOQUIAM	0.06	TWA(Access)
056401100203	Port of Grays Harbor (Upland)	0.21	TWA
056401100203	Port of Grays Harbor (Below High Water Line)	1.08	TWA
Dock	Port of Grays Harbor Port Terminal #3	2.52	TWA



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Westhaven Breakwater C Repair

- Replace missing horizontal boards along Breakwater C
 - Significant increase in shoaling in the access channel and marina due to breakthrough
- Rock will be removed from wall, boards replaced, old rock and some new put back
- Work will be in the dry
- Environmental Compliance
 - NEPA categorical exclusion
 - No Effect MFR for consideration of ESA-listed species
 - Nationwide Permit #3 may be used for the rock placement
 - 404(b)(1) and 401 certification



Pt. Chehalis Revetment Repair

- Repair up to 300 feet of failed revetment in 2 segments
- Approx 640 tons underlayer filter stone (quarry spall); 640 tons core stone (3-7 ton); 6,400 tons armor stone (9-13 ton)
- Some work will occur in water at low tide
- Same work as in 2013, different segments
- Programmatic (thru 2020) environmental package (EA/BE, CZMA, NWP3, FONSI) is complete.



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Westhaven Marina Dredging

- Clamshell dredging in FY17
 - 5K CY Channel A
 - 37K CY Channel B
 - In-water disposal at PCDS and SJDS
- Environmental Compliance Activities
 - Work window: 16 July to 31 January avoids impacts to salmon, bull trout, and herring
 - Dredging occurs at elevations deeper than typical eelgrass limits (-10 MLLW)
 - Material is suitable for open water disposal
 - ESA impacts are addressed in programmatic BE for dredging
 - 401 certification package will be submitted to Ecology in late February
 - NEPA public comment period estimated to occur 29 Feb to 30 March



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Questions Comments

REACH	VOLUME (CUBIC YARDS)	SEDIMENT TYPE	DREDGE TYPE	CHANNEL DIMENSIONS ¹	DISPOSAL AREA(S)	WORK CLOSURES	WORK SCHEDULED
Cow Point	~750,000 annually	sandy silt	clamshell	-36' MLLW 350-550' wide	South Jetty or Point Chehalis ²	15 Feb to 15 July	16 July to 14 Feb
Cow Point Turning Basin	~215,000 annually	sandy silt	clamshell	-36' MLLW 350-950' wide	South Jetty or Point Chehalis ²	15 Feb to 15 July	16 July to 14 Feb
Hoquiam	~150,000 annually	sandy silt	clamshell	-36' MLLW 350' wide	South Jetty or Point Chehalis ²	15 Feb to 15 July	16 July to 14 Feb
North Channel	~175,000 annually	silty sand	clamshell	-36' MLLW 350' wide	Point Chehalis	15 Feb to 31 July	1 August to 14 Feb
Inner Crossover	~375,000 annually	silty sand	clamshell	-36' MLLW 350-450' wide	Point Chehalis	15 Feb to 31 July	1 August to 14 Feb
Outer Crossover	~235,000 annually	silty sand	clamshell hopper ³	-36' MLLW 350' wide	Point Chehalis	No clamshell 15 Feb to 31 July No hopper after 31 May	Clamshell 1 August to 14 Feb Hopper April and May
South Reach	~190,000 annually	sand	hopper ³	-36' MLLW 350-450' wide	Point Chehalis or Half Moon Bay	No hopper after 31 May	April to May
Entrance/ Point Chehalis	~685,000 annually	sand	hopper	-40' to -46' MLLW 600-900' wide	South Jetty, or Half Moon Bay or Point Chehalis	No hopper after 31 May	April and May
Bar Channel	~260,000 as needed	sand	hopper	-46' MLLW 900' wide	South Beach or South Jetty or 3.9 mile ocean site	No hopper after 31 May	April and May



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