From: Jen Mott
Sent: Thursday, April 9, 2020 4:36 PM
To: 'BAYUK Dana' <Dana.BAYUK@state.or.us>
Cc: Halah Voges <hvoges@anchorqea.com>
Subject: NW Natural: LNG Basin Interim Measure Trench Model Runs

Dana,

The following email is provided on behalf of Halah.

Dana - Attached are model output graphics for the LNG Basin Interim Measure trench scenario we discussed on Tuesday. The shorter 2nd trench appears to have good capture and only slightly lower flow rates. Please let me know if you want to discuss the output with us. Also, Hunter Young is the new EPA Project Manager for the Gasco sediments project. Hope you are doing well – thanks.

Jen Mott
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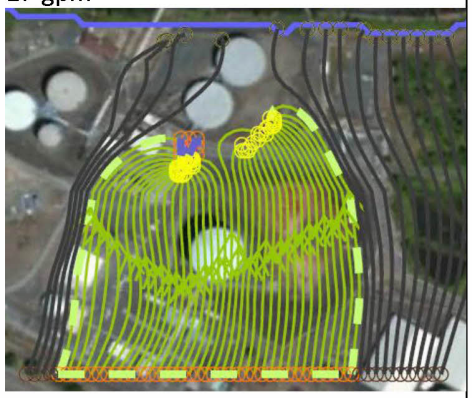
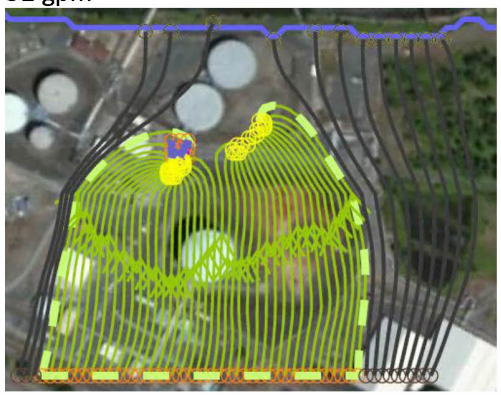
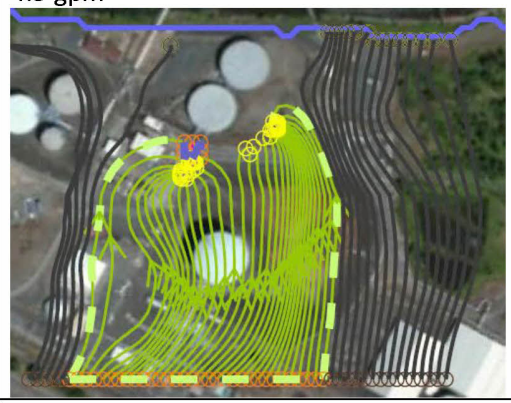
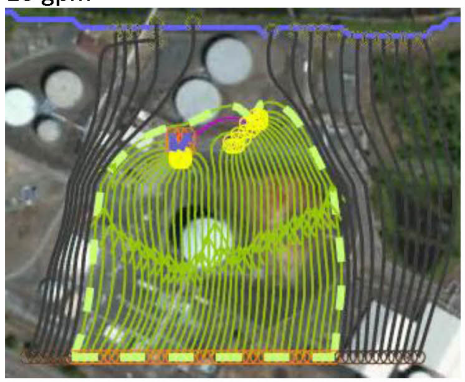
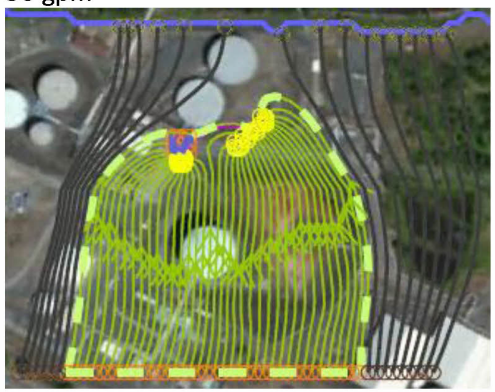
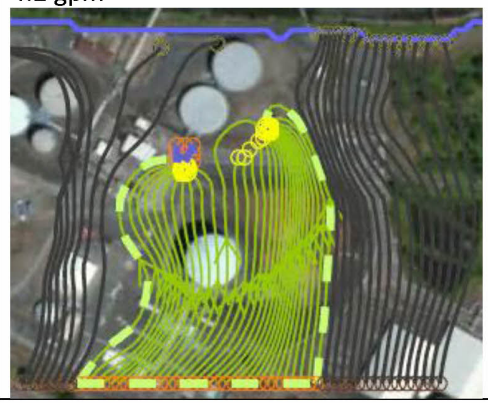
	Annual Average Condition	Wet Season (Dec to Mar Average)	Dry Season (Jun to Sept Average)
River Stage (ft COP)	8.84	10.20	7.19
Rainfall (inches/month)	3.9	7.2	0.95
100-ft Long Trench in PacTerm Basin + 50-ft Long Trench near MW-49F	17 gpm 	32 gpm 	4.5 gpm 
100-ft Long Trench in PacTerm Basin + 30-ft Long Trench near MW-49F	16 gpm 	30 gpm 	4.2 gpm 

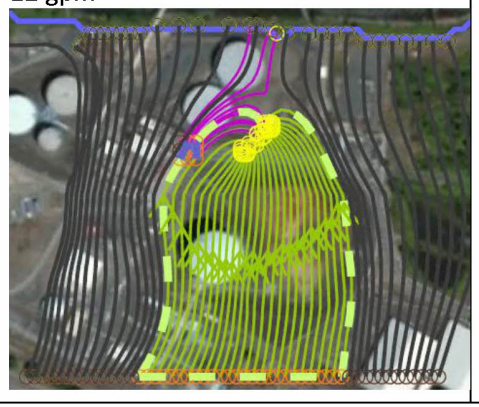
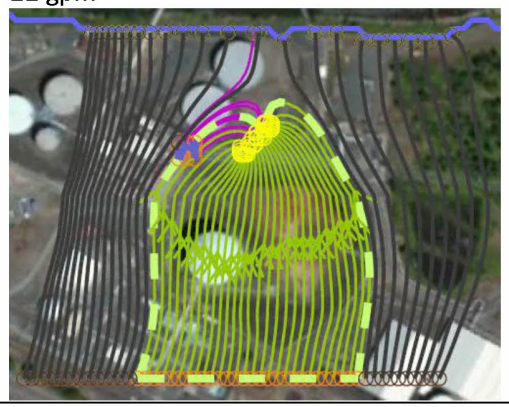
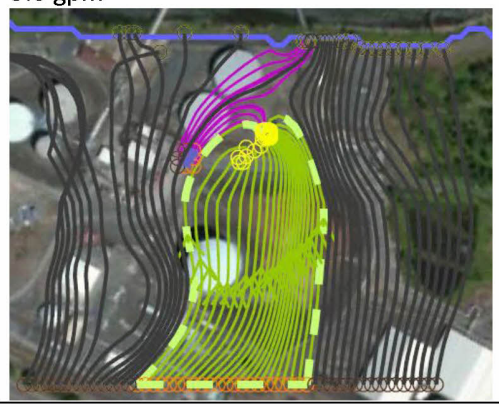
	12 gpm	22 gpm	3.0 gpm
100-ft Long Trench in PacTerm Basin			

Figure 1b
Simulated Capture Zones for 100-ft Long Trench in PacTerm Basin
LNG Basin Interim Measure
NW Natural Gasco Site

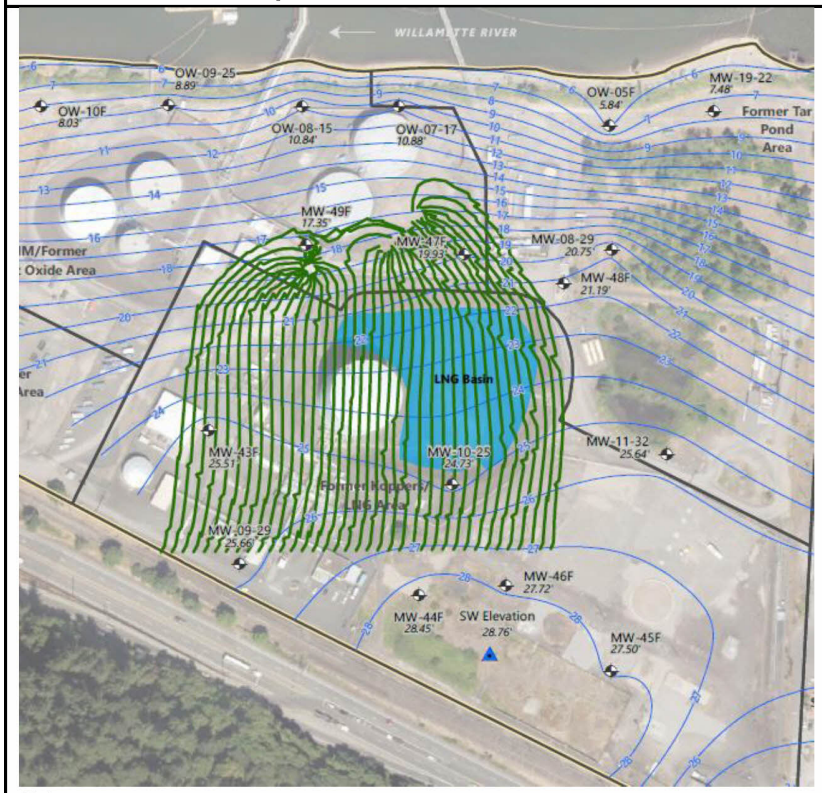
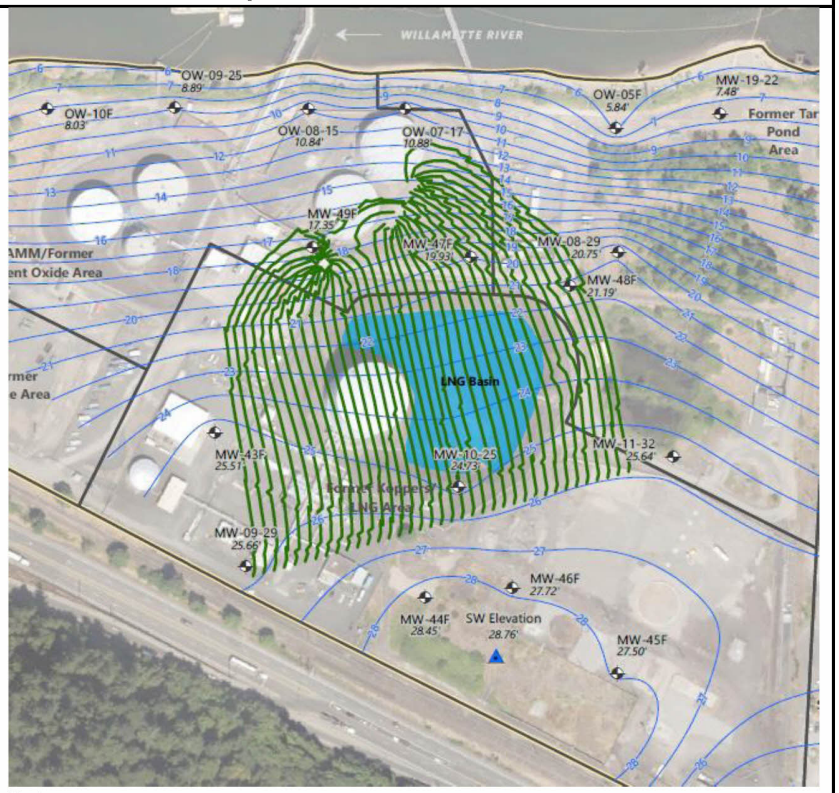
Before Rotation of Capture Zone	After Rotation of Capture Zone
	
Notes: 1. Green lines represent particle pathlines. 2. Blue lines represent Fill WBZ potentiometric surface contours (ft COP) 3. Particle pathlines are for the scenario of 100-ft long trench in the PacTerm basin and 30-ft long trench near MW-49F.	Note: 1. Particle pathlines were rotated 15 degrees to align with interpolated potentiometric surface contours. Therefore, the capture zone is approximate.

Figure 2

Overlay of Simulated Capture Zone with Fill WBZ Potentiometric Surface Contours

LNG Basin Interim Measure

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