Rockaway Beach Drinking Water Protection Plan

Source Water Protection Plan Development Advisory Committee (SPPDAC)

June 17, 2024

GSI Water Solutions, Inc.

CITY OF ROCKAWAY BEACH OREGON

Agenda

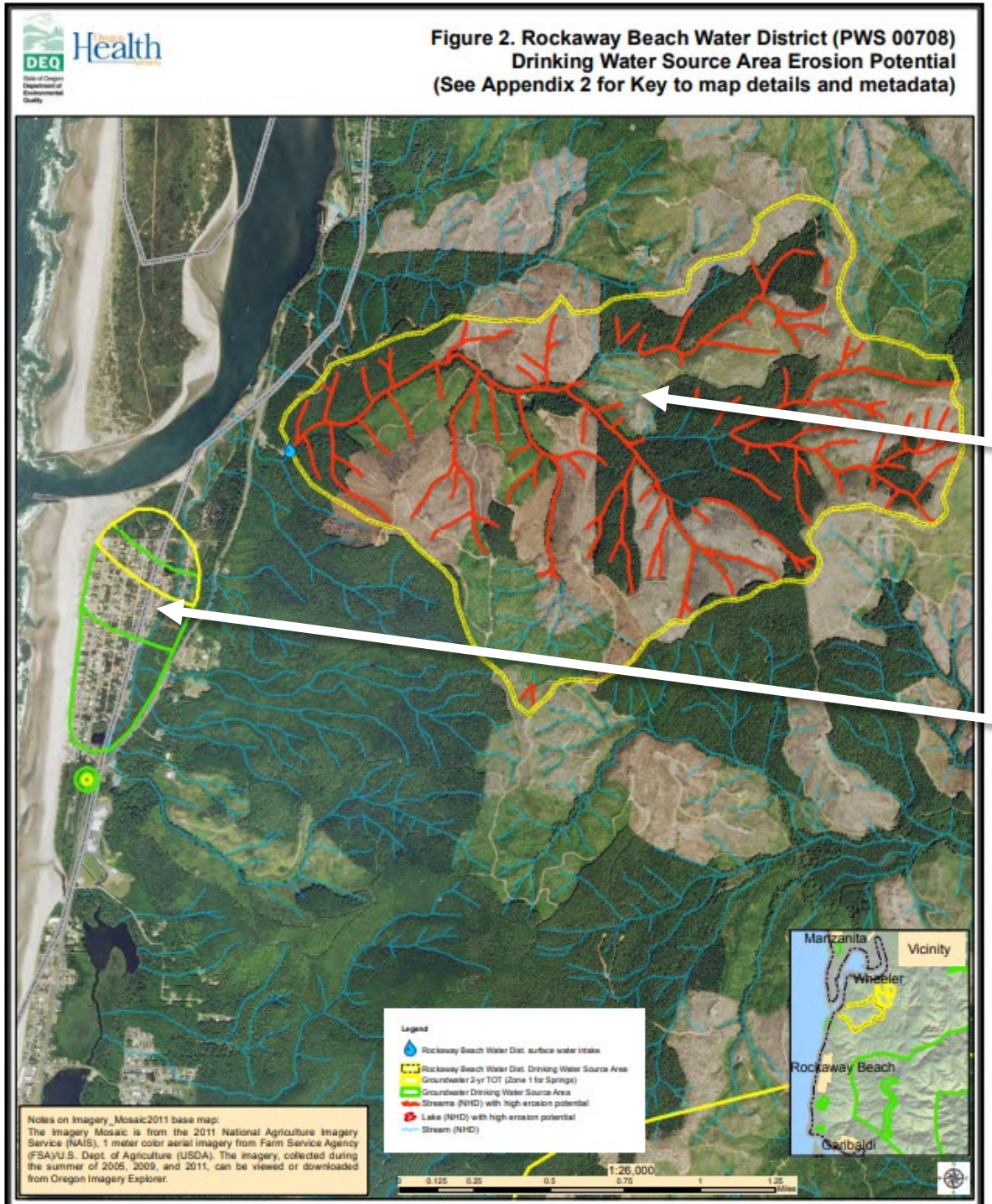
- Review of overarching and current objectives
- Identifying risks
- Prioritizing risks
- Next steps

Review: What is a DWPP?

- An action plan for implementing drinking water protection strategies
  - Goal
    - To reduce risks to the City of Rockaway Beach's primary drinking water source, Jetty Creek
  - Involves
    - Identifying and prioritizing risks (We are here and need input.)
    - Developing strategies
    - Developing an implementation approach
    - Describing the Contingency Plan and potential Future Sources

Estimated Schedule

SPPDAC Meeting: Risks and prioritization	June
SPPDAC Meeting: Risks prioritization	July
Public Meeting	**August/September**
SPPDAC Meeting: Strategies	September
SPPDAC Meeting: Implementation plan	October
SPPDAC Meeting: Draft DWPP	November/December
Public Meeting	**January 2025**
Draft DWPP to the City, SPPDAC, City Council	February/March 2025
Submit Final Draft DWPP to DEQ and OHA	**March 2025**



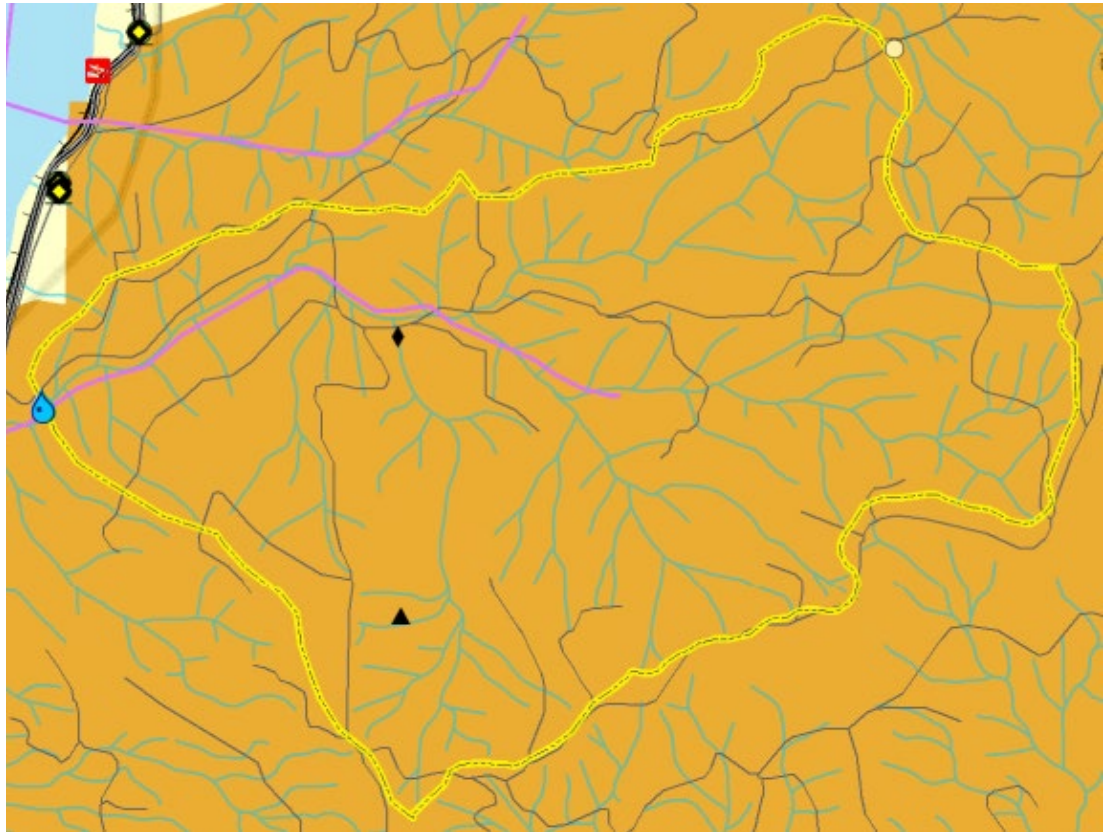
Rockaway Beach's drinking water sources:

- Jetty Creek

(Primary supply, Focus of the DWPP)

- Groundwater Wells (Backup supply)

Land Use in Jetty Creek Watershed



Owner Type	Area (acres)	% of DWSA
Agricultural	0	0%
Private Industrial Forest	1,311	100%
Private (Rural/Non-industrial)	0	0%
Local Government	0	0%
State Forest	0	0%
Other State Lands	0	0%
Bureau of Land Management	0	0%
US Forest Service (USFS)	0	0%
Tribal	0	0%
Other (includes Water)	0	0%

Potential Risks to Jetty Creek

Natural Hazards

- Highly erodible soils/landslides (SWA)
- Drought and low flows
- Earthquake
- Tsunami
- Wildfire
- Severe storms
- Volcanic ashfall

Forestry

- Clearcut harvesting (SWA)
- Partial harvesting
- Pesticide and fertilizer applications (SWA)
- Access roads
- Riparian impacts

Other Surface Water Risks

- Gravel borrow pit (SWA), identified as inactive in SWA
- Infrastructure leakage or failures
- Vandalism
- Jetty Creek Fecal Coliform TMDL (SWA)

Potential Risks to Groundwater Sources

- Municipal
  - Sewer lines & septic systems (SWA)
  - High-density housing (SWA)
  - Infrastructure leakage or failures
- Transportation
  - Roads, highways, and railroads (SWA)
- Stormwater (SWA)
- Natural Hazards
  - Saltwater intrusion

Risk Prioritization

- Prioritization by likelihood and severity of impact
- Low-medium-high ranking
- Numerical scale
- Address highest risks first with implementation strategies

LIKELIHOOD ↓ / SEVERITY →	1	2	3
1	LOW – 1 –	LOW – 2 –	MEDIUM – 3 –
2	LOW – 2 –	MEDIUM – 4 –	HIGH – 6 –
3	MEDIUM – 3 –	HIGH – 6 –	HIGH – 9 –

Risk Prioritization

Likelihood (overall score)	Consequence (overall score)				
	Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Severe (5)
Almost certain (5)	Medium (5)	Medium (10)	High (15)	High (20)	High (25)
Likely (4)	Low (4)	Medium (8)	Medium (12)	High (16)	High (20)
Possible (3)	Low (3)	Medium (6)	Medium (9)	Medium (12)	High (15)
Unlikely (2)	Low (2)	Low (4)	Medium (6)	Medium (8)	Medium (10)
Rare (1)	Low (1)	Low (2)	Low (3)	Low (4)	Medium (5)

Next Steps

- Provide input on:
  - Risk identification worksheet
  - Risk prioritization approach
- Next meeting: July
  - To discuss risks, prioritization approach, and risk levels

Thank you!

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