## North Santiam Watershed Recovery Stabilization of Priority Sites – Hazardous Substance Threat of Impact to Surface Water

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## Issue

The recent Beachie Creek and Lionshead wildfires has burned over 400,000 acres across the North Santiam Watershed. Over 700 homes have been destroyed and large-scale damage has been inflicted to the North Santiam River Watershed which is the source of drinking water for communities along the river including Gates and Lyons, as well as the City of Salem.

Based on aerial imagery, proximity to the waterways, and initial damage assessments from the Counties, approximately 75 destroyed homes are adjacent to the North Santiam River and the Little North Fork Santiam, of these approximately 45 are close enough to the river to pose a risk of household ash and contaminants migrating to the river. These pose an immediate threat to drinking water quality and public health from toxic ash and household hazardous waste items once heavy rains hit the area. Additional on-the-ground information is being collected by DEQ staff, North Santiam Watershed Council, Oregon Fish and Wildlife Department, Marion County, and other organizations. Another 30 sites have been identified as medium priority because on the ground inspections have not been done for those sites.

Attached table presents priority sites (field confirmed) and medium priority sites (unconfirmed).

## Waste Stabilization Scope of Work

The following scope of work is a preliminary scope designed to support a FEMA-supported mission assignment for EPA or other Lead Agency and is based on DEQ's anticipated needs and process to address the priority threats. The scope of work for focused waste stabilization on-site and erosion control on priority threats to drinking water quality per EPA guidance (see below) is summarized below:

1. Addresses with signed access agreements will be provided to the Lead Agency to conduct the waste stabilization work;

2. Lead Agency will photo document the site prior to any work being started to document site conditions;

3. Identify and remove household hazardous waste items found in the debris and ash piles according to EPA HHW Removal SOPs;

4. As best as possible identify and flag area of potential drain field and septic tank to avoid using heavy equipment over septic system drain field areas. Marion County may have sketches of where drain fields are on some properties, DEQ may be able to provide on-site septic system locations and as-built sketches;

5. Pull back toxic ash and scrape soil to consolidate toxic ash into pile(s) away from waterbodies and on stable ground (flatter surfaces, within footprint of home/structure, etc.), when consolidated within structure footprint pull ash and debris up against foundation wall farthest from the river, cover with plastic sheeting, use weights to hold in place, and properly label.

6. Install erosion control BMPs (silt fencing & wattles) below structures, between covered waste piles, exposed/bare soil and nearby waterbodies to reduce erosion as a result of

scraping and consolidation activities;

7. Photo document covered waste piles, erosion control features, and site conditions once work has been completed. Track all documentation using owner name and address.

8. Lead Agency will notify owner once work has been completed and provide the owner all photo and other documentation in case needed for insurance claims or other requests.

10. DEQ's expectation is this work will be completed in a 7-day period, if at all possible, with multiple crews working simultaneously to achieve those end results. Lead Agency will coordinate with DEQ as delays or resource limitations come up.

Attachment: Table of Priority and Medium Priority Sites Needing Stabilization

C14	a diture	Common 1	no. structure	Priority (confirmed threat)	Priority (unconfirmed
Site	Address	Comment	5	unreau)	)
Niagra(minto county park pilot car to get thru)	35950 hwy 22	2 home on Santiam egde	2	2 2	
Gates Bridge East ( pilot car neeed to get thru)	51427 Gates Bridge East	3 homes on Santiam edge	3	3 3	
Greenway Drive	51001 Greenway Dr	4 homes on Santiam edge	4	4	
Linnwood dr	3-4 homes destroyed here, but appeared to be newer homes	4 homes on Santiam edge	10	No	10
Gates		5 homes on Santiam edge	5	5 5	,
Very close to river based on photo(see photo)	30728 central st	1 home on Santiam edge could not confirm from gate on Fisherman appears two houses	1	1	
Fisherman Rd Linn County goes to Shoreline Dr	40623 and 40601 Shorline Dr Lyons 97358	standing. May be this address	2	No	2
Fisherman Rd Linn County goes to Shoreline Dr	40637 Shoreline DR	no confirm gate no trespass	1	unknown	1
Fisherman Rd Linn County goes to Shoreline Dr	40587 Shoreline DR	no confirm gate no trespass	1	unknown	1
Fisherman Rd Linn County goes to Shoreline Dr	40641 Shoreline DR	no confirm gate no trespass	1	unknown	1
Fisherman Rd (no sites near water. Shoreline near water)		4 homes on Santiam edge	4	4	l.
Dewitt Ln (no entry private could not confirm) likely high priority	25552 DeWitt Ln.	2 homes on Santiam edge	2	2 2	
Dewitt Ln (no entry private could not confirm) likely high priority	25672 Dewitt Ln		1	1	
Looks high priority from distance. Santiam Park Drive (no access	addresses from road looking down of potential concern: 25295, 25445, 25355,				
allowed to road to view houses as per big signs)	25255 Santiam Park Rd SE	3 homes on Santiam edge	3	3 3	j
Jennie Rd (Mehama)	At least 3 homes on this road. Addresses in Survey 123, I suspect more that I could not see from road. Photos in GIS as well. Lower priority than Riverwood Dr from what I saw, but still possible sloughing into river in heavy rain	3 homes on Santiam edge	3	3 3	
Riverwood Dr. (Lyons)	11067, 11661, 11665, 11667, 11673, 11671, 116693, 11703, 11713, also 11093, 11133, 11153, 11173, 11178	A lot of damage on this road and immediately adjacent to the river, but I could not see riverbank so unknowns, but high potential	14	14	ł
Sanitam Way (Lyons)	23427	Other homes as well damaged (Rebecca's notes)	1	1	
Railroad Ave	Unknown	Rebecca's notes	1	unknown	1
N Santiam Hwy Rd	35250	Rebecca's notes	1	1 1	
Sitka Ln/Sitkoom St (Sitkum Rd high priority I got Anne Farris to load into 123survey)	addresses 26302,26200, 26132, 26062, 26032 confirmed w/photo	lyons 97358	1	1	L
Dogwood Circle		5 homes on Santiam edge	5	unknown	5
Riverview St photo	133 Riverview St	Gates 97346	1	unknown	1
Dogwood Dr photo	117 Dogwood Dr	Gates 97346		unknown	1
Dogwood Dr photo	157 Dogwood Dr	Gates 97346		unknown	1
Dogwood Dr photo	159 Dogwood Dr	Gates 97346		unknown	1
Summer Haven	23860 Summer Haven	5 homes on Santiam edge, unknown threat	5	unknown	5
Priority Sites	•	• • • • • • • • • • • • • • • • • • •	45		
Medium Priority Sites			30		
Total			75		
note:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	bank adjacent to the North Santiam or Little North Fork Santiam, or near a terrace (	edge where debris may fall into the waterway in the near term			
· · · · · ·	entified by aerial imagery, Initial Damage Assessment data, and proximity to the	· · · ·			
Additional on-the-ground information may increase or decrease t					

## Attachment to: North Santiam Watershed Recovery Stabilization of Priority Sites Hazardous Substance Threat of Impact to Surface Water