

## **Response to Comments**

Remedial Investigation & Feasibility Study for the Colville Post & Poles Site

Public comment period held November 29 – December 30, 2021 Facility Site ID 765, Cleanup Site ID 46

**Toxics Cleanup Program** 

Washington State Department of Ecology Spokane, Washington

February 2022

#### **Document Information**

This document is available on the Department of Ecology's <u>Colville Post & Poles website</u><sup>1</sup>.

#### **Related Information**

- Facility site ID: 765
- Cleanup site ID: 46

#### **Contact Information**

#### **Toxics Cleanup Program**

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Website<sup>2</sup>: Washington State Department of Ecology

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<sup>&</sup>lt;sup>1</sup> https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=46

<sup>&</sup>lt;sup>2</sup> https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Cleanup-sites

<sup>&</sup>lt;sup>3</sup> https://ecology.wa.gov/About-us/Accountability-transparency/Our-website/Accessibility

# **Toxics Cleanup in Washington State**

Accidental spills of dangerous materials and past business practices have contaminated land and water throughout the state. The Washington State Department of Ecology (Ecology) Toxics Cleanup Program (TCP) works to remedy these situations through cleanup actions. TCP cleanup actions range from simple projects requiring removal of a few cubic yards of contaminated soil to large, complex projects requiring engineered solutions.

Contaminated sites in Washington are cleaned up under the <u>Model Toxics Control Act</u><sup>4</sup> (MTCA, Chapter 173-340 Washington Administrative Code), a citizen-mandated law passed in 1989. This law sets standards to ensure toxics cleanup protects human health and the environment and includes opportunities for public input.

## **Public Comment Period Summary**

Ecology held a comment period November 29 through December 30, 2021, for the draft <u>Remedial Investigation and Feasibility Study</u><sup>5</sup> (RI/FS) for the Colville Post & Poles cleanup site. The RI documents the extent and locations of pentachlorophenol (PCP), diesel, and dioxin contamination in soil and groundwater at the site. The FS evaluates cleanup options.

Ecology appreciates the comments we received from one person and the Stevens County Commissioners. We address them in the Response to Comments section that begins on page 4. After considering the comments, we have finalized the draft document without further changes.

## Site Background

The nearly 23-acre site is within 200 feet of the Colville River, which flows into Lake Roosevelt, a reservoir created by the Grand Coulee Dam on the Columbia River.

Colville Post & Poles, Inc., used the site to treat wood, primarily fence posts and rails, for about 60 years from the 1940s to 2005. Throughout the wood-treating period, PCP and diesel leaked from piping and drip pads. In 1989, a 10,000-gallon, above-ground storage tank leaked PCP to the ground.

In 2000, the Confederated Tribes of the Colville Reservation petitioned the U.S. Environmental Protection Agency (EPA) to assess contamination at the site. Colville Post & Poles, Inc., closed down in 2005 when the owners couldn't afford upgrades required to meet environmental standards.

To address immediate threats to people and the environment, the EPA took action in 2005 and 2006. They investigated the site, demolished treatment and storage buildings, installed

<sup>&</sup>lt;sup>4</sup> https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Rules-directing-our-cleanup-work/Model-Toxics-Control-Act

<sup>&</sup>lt;sup>5</sup> https://apps.ecology.wa.gov/cleanupsearch/document/107342

groundwater monitoring wells, and excavated and safely disposed of some contaminated soil, debris, and drummed wastes.

The <u>Eastern Washington Clean Sites Initiative</u><sup>6</sup> funds this cleanup because the former site owners/operators are unable pay for it. The funding cleans up abandoned sites to create healthier communities. The money comes from the state's voter-approved tax on hazardous substances.

When funding became available in 2015, Ecology took steps toward completing site cleanup. We removed debris in and around surface water and concrete footings in the area where wood was treated, temporarily stockpiled debris as necessary, and did an initial assessment of soil and groundwater contamination. Five groundwater samples contained PCP and diesel at levels requiring cleanup.

Ecology completed the RI/FS to find out how much contamination remains and evaluate final cleanup options. The RI found that PCP and dioxin are spread across shallow soil throughout the site, and a PCP-contaminated groundwater plume extends from the former process area to the western property line. Three cleanup options, called "alternatives" in the FS, were developed for soil, and four cleanup options were developed for groundwater. Options for cleaning up contaminated soil are soil washing, excavation and disposal, and on-site treatment. Groundwater cleanup options are monitoring as contamination reduces naturally, pump and treat, bioremediation, and a permeable reactive barrier.

## **Response to Comments**

Comment letters are organized in alphabetic order based on the submitter's last name, and comment numbers have been added to the letters. Each letter is followed by Ecology's corresponding numbered responses.

### Index of comments received

The people who submitted comments are listed below in alphabetical order, followed by the date we received the comments and the page on which the comments begin.

Name	Organization	Date received	Page
Terry-Lee, Sole Bishop	None	December 28	4
Wes McCart	Stevens County Commissioners	December 30	15

Table 1. Index of comments received

<sup>&</sup>lt;sup>6</sup> https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Cleanup-sites/Eastern-Washington

Terry-Lee, Sole Bishop; received via postal mail December 28

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#### Ecology's response

- Ecology understands that the fact sheet you received in the mail includes only summarylevel information. The intent of the fact sheet is to notify the public of the review period for the RI/FS, which is available online and in print upon request. The RI/FS referenced in the fact sheet contains a thorough description of the contamination and evaluates methods to remediate the contamination. The RI/FS also includes several figures that depict the site and extent of contamination. Ecology encourages review of the RI/FS for a more detailed characterization of the site.
- 2. As described in the fact sheet, soil washing was determined to not be a potential remedy for cleaning up contaminated soil at the site. The main contaminant in soil at the site is dioxin. While soil evaporation (commonly referred to as land farming) is an effective treatment method for volatile contaminants (such as gasoline), it is not effective for contaminants like dioxin that form a very strong bond to soil particles. While incineration wasn't specifically evaluated in the FS, thermal treatment was evaluated and remains a viable option. Thermal treatment would also be completed onsite and accomplishes the same result as incineration while using much less energy.
- 3. Ecology appreciates your concern regarding landfilling the contaminated soil. However, today's landfills are designed and permitted to meet very high containment standards. Ecology will carefully consider the long-term effects of the landfilling options as it completes its analysis in the Cleanup Action Plan. Unfortunately, due to the repetitive flooding of the site and its location next to the river and wetlands, on-site containment would not meet cleanup requirements.
- 4. Once Ecology determines the final cleanup decision in the Cleanup Action Plan, we will begin the bidding process where contractors will bid the job to complete the cleanup. This will ensure the site is remediated at the lowest possible cost. Private contractors will be able to identify the most cost effective remediation equipment that they own or will rent in the bidding process. Ecology cannot require remediation equipment is manufactured in the USA.

#### **Groundwater Cleanup**

- 1. As described in the fact sheet, Option 1 for groundwater does not protect people or the environment, so it will not be considered in the Cleanup Action Plan.
- 2. (4) Ecology's cleanup rule, MTCA, requires active cleanup technologies for groundwater contamination whenever possible. Therefore, on-site containment of contaminated groundwater with sheet piling would not be considered a long-term solution.
- 3. (5) Chemicals associated with enhancing biodegradation of contaminants often include nutrients and inoculated solutions of desirable microbes. These chemicals are either biodegradable or are to be consumed during the remediation process. Careful monitoring of groundwater quality changes is required when remediating groundwater through enhancing biodegradation. Ecology appreciates your comments regarding ways to successfully inject solutions into the soil and groundwater at the site. At this time the

property is held in trust by Stevens County and is not available for lease. Unfortunately, only one request for a public hearing was received, and therefore a public hearing will not be held. However, please do not hesitate to contact us, as Ecology welcomes your questions and input throughout the cleanup process.

4. (6) As described in the RI/FS, the permeable reactive barrier would be excavated down to the clay aquitard approximately 18 feet below the ground surface. Layback of soil or shoring would possibly be required to excavate the trench if sloughing of the sidewalls were to occur. The purpose of the permeable reactive barrier is to encourage groundwater through the barrier. As it flows through the barrier, the zero-valent iron breaks down the contaminants. Adding bentonite clay to the permeable reactive barrier would inhibit flow and encourage contaminated groundwater to flow in a different direction.

# Wes McCart, Stevens County ComissionersCommissioners, received online December 30

#### Stevens County

The following comments are submitted by the Stevens County Commissioners on behalf of the over 45,000 people we represent.

In the RI/FS it is noted that two sites for disposal of debris and soil were considered, one in Spokane County and the other, the Stevens County Landfill in Kettle Falls. Please be aware that Stevens County has a Flow Control Ordinance requiring all materials for disposal generated inside of Stevens County MUST be disposed of at the Stevens County Landfill. (This would not apply if toxic material were of such a nature as to be required to go to a Toxic disposal site - which is not the case here). In addition, the extra miles traveled to go to Spokane County would contribute to undue wear and tear on the roads, and contribute to climate change.

In the preferred alternatives, discussion of drilling wells and pumping water at approximately 100 gpms from the ground water and treating, then dumping the water into the Colville River. 1) Will these wells be by application of appropriation of a water right? This volume would exceed any exemption in the statutes. 2) I do not see an impairment analysis in the study material - one should/would be required to avoid any negative impacts to the surrounding wells. 3) What is the consumptive use of this water withdrawal? There would be some loss in the treatment process and the pump and dump operation? 4) Studies show that pumping from the upper unconfined aquifer would have an effect on the lower aquifer. How will these effects be mitigated? 5) How will mitigation to the ground water be achieved, both upper and lower aquifer?

While we support cleaning up the environment in this area, there is also a concern that the Colville River Watershed is currently a "closed" basin and water is not available without full mitigation. We see no conversation in the documents about how this water will be mitigated, or the cost associated with buying or leasing of a water right for mitigation. If the water were to be pumped out of the ground water and returned via ground water injection, this would create a whole new scenario that would need further study to show no effects to the water quality.

We also question the dumping of this water into the Colville. We did not see an analysis of the water quality and permit needed that fits under the current TMDL's for the Colville River.

Again, where we support the cleanup of this site and the stoppage of further ground water contamination, we do not want to trade one problem for another and ask that the appropriate studies and measures be taken.

Thank you for allowing us to comment and we would welcome any further questions to clarify our comments.

Respectfully Submitted,

Wes McCart Stevens County Commissioner - Chair (509) 496-6518 (509) 684-3751 commissioners@stevenscountywa.gov wmccart@stevenscountywa.gov

#### Ecology's response

- Thank you for the reminder regarding the Stevens County Flow Control Ordinance. Ecology will ensure that all eligible material will be disposed of in Stevens County.
- 2. Several methods of discharging treated water from a potential pump-and-treat system were mentioned in the RI/FS. Ecology does not anticipate that treated water would be discharged to the Colville River. The treated water would likely be infiltrated into the ground upgradient of the extraction area, so there would be no consumptive use. If the pump-and-treat groundwater treatment option is selected, Ecology will ensure a thorough analysis of potential impacts to the groundwater supply is completed during system design, and continuous monitoring will occur during operation for ongoing verification.