



Oregon

Tina Kotek, Governor

Department of Environmental Quality

Northwest Region

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September 6, 2024

Robert Fraley
Portland Water Bureau
1120 SW 5th Avenue Rm 405
Portland, OR 97204
Robert.Fraley@portlandoregon.gov

RE: Beneficial Use Determination (BUD-20240906), PWB – Bull Run Filtration Facility Contaminated Soils

Dear Robert Fraley:

The Department of Environmental Quality (DEQ) has reviewed Portland Water Bureau's (PWB) application for a solid waste beneficial use determination (BUD) that was submitted on April 2, 2024, and has reviewed the request from the PWB received during the public comment period. The application requests that DEQ approve a proposed beneficial use of slightly contaminated soils generated by PWB that will be excavated from the surface of the construction area for the Bull Run Filtration Project. The contaminated soils at the surface (0-1.5 feet below ground surface) of the project area do not meet DEQ clean fill criteria. The soils that are deeper than 1.5 feet below the surface do meet the clean fill criteria. During the public comment period, DEQ and the PWB became aware of an additional reuse proposal from Ted Sester who requested that DEQ approve an approximately 29-acre property in Damascus identified as Clackamas County Parcel No. 00603617, Map and Tax Lot 2S3E03 03302 to receive 125,000 cubic yards of the PWB soil be deposited at the Sester Farm location to develop the land for farm use by T & K Sester Family, LLC. The soil from the PWB project would be blended with existing topsoil so that the land could be used to grow grasses and other agricultural crops. PWB submitted a request during the public comment period to add this proposed beneficial use as well as a request to take the soil to a DOGAMI reclamation site as additional options for beneficial use of the soil. The PWB also clarified that the quantities of soil are larger than originally noted in the application: the total from the pipeline is approximately 32,000 cubic yards and the total on the water filtration property is approximately 160,000 cubic yards. The original proposed use for the slightly contaminated soil is for non-structural fill adjacent to the construction area. PWB proposes to beneficially reuse approximately 160,000 cubic yards (CY) of the slightly contaminated soils until construction completion in 2027. The majority of contaminated soils has been excavated and moved from the Tax Lot 400 to Tax Lot 100 with some contaminated soil remaining on Tax Lot 400.

Soil material that exhibits staining or emits odors is not included in this BUD.

The proposed beneficial uses meet the requirements for a Tier 2 case-specific Beneficial Use Determination (BUD) under Oregon Administrative Rule (OAR) 340-093-260 through 340-093-0290. DEQ is issuing this BUD to PWB. The BUD is limited to the materials, approved uses, and conditions specified in Table 1. DEQ has also evaluated the BUD application and additional request for reuse of soil from the Finished Water Pipeline construction. Any materials generated by activities pertaining to the pipeline BUD that will be reused at the water filtration plant, Tax Lot 100 and 400 will need to comply with the conditions in both BUDS.

DEQ's approval is based on a review of PWB's application and additional request during the public comment period for beneficial use of contaminated soils to be generated during the Bull Run Filtration construction project which demonstrates the case-specific beneficial use performance criteria outlined in OAR 340-093-0280 are met for the approved uses. Details of DEQ's review are provided in the attached case-specific evaluation report.

Failing to use the contaminated soils in accordance with the BUD approval conditions on use will subject the material to solid waste regulations and fees. If the conditions of approval cannot be met, the waste must be disposed of at a DEQ permitted landfill or DEQ approved facility.

Per OAR 340-093-0290(9), DEQ may modify or revoke this case-specific BUD at any time based on new information showing the potential to cause adverse impact to public health, safety, welfare, or the environment.

Table 1

Material	Beneficial Use	Conditions on all Uses
<p>Approximately 160,000 cubic yards of contaminated soils generated from construction activities at the Bull Run Filtration Project.</p>	<p>(1) Contaminated soils will be used as non-structural fill in areas adjacent to the construction area within Tax Lot 100 and 400.</p>	<p>To comply with this BUD, PWB must ensure:</p> <ol style="list-style-type: none"> 1. The contaminated soils be managed to prevent, at all times, windblown dust, runoff and erosion, releases to the environment or nuisance conditions. 2. The contaminated soils will not be placed where they could come into contact with or adversely impact surface water or groundwater. 3. The contaminated soils will be used as non-structural fill and will be stockpiled during the filtration facility construction according to the requirements of the Stormwater General Permit 1200-CA Permit. 4. The contaminated soils will be placed away from environmentally sensitive areas to protect waters of the State (such as wetlands, wildlife refuges and parks). 5. PWB will maintain records documenting the amounts of contaminated soils used and where, keep the records for five years from the date created and make these records and submit annual reports to DEQ by January 31 of each year identifying how much soil was used during the previous year. Placement of contaminated soils will be recorded in daily construction reports created by PWB's construction quality assurance team. 6. The non-structural fill will be covered with a protective cap using one of the two following options: (1) Geotextile fabric will be placed over contaminated soil upon completion of construction of the Filtration Facility. Fabric will be specified to restrict burrowing of mammals. Additionally, a cap of one foot of material meeting the DEQ definition of "Clean Fill" will be placed over top of the contaminated soil and geotextile barrier; OR (2) A cap comprising of three feet of material that meets clean fill criteria is placed over the contaminated soil. 7. The protective cap will be maintained and vegetated upon completion of the construction of the facility in a manner to prevent erosion. 8. PWB will comply with all applicable federal, state, and local regulations when using the material. 9. PWB will inspect the cover at reuse location after final placement by October 1 of each year until fully stabilized and will submit a status update to DEQ with the annual report (Condition 5).

	<p>(2) Use of the contaminated soil as mine reclamation fill</p>	<ol style="list-style-type: none"> 1. Material use must be in accordance with an approved DOGAMI operating permit with an approved imported fill plan or reclamation plan allowing the importation of fill for permanent reclamation backfill. 2. Each disposal or use site for permanent reclamation backfill must receive written DOGAMI and DEQ approval prior to placement. 3. The material must not be used in any DSL wetland mitigation site associated with a DOGAMI permitted mining facility. 4. Material must not be stored or used near water or wetland areas in such a way that would allow discharge to groundwater or surface water. 5. Material must be stored and managed to prevent nuisance conditions or releases to the environment such as dust, runoff, objectionable odors and unsightliness. 6. Material use must comply with all applicable federal, state, and local regulations.
	<p>(3) Use of the contaminated soil to be blended with topsoil at a T&K Sester Farm , LLC property located in Clackamas County on Parcel No. 00603617, Map and Tax Lot 2S3E03 03302</p>	<ol style="list-style-type: none"> 1. Upon completion of an ecological risk assessment at the proposed property, Material from the pipeline and water filtration plant shall be used to amend existing virgin topsoil for the cultivation of rotation crops of grass seed and nursery stock. Soil from the pipeline and water filtration site will be placed according to a Topsoil Placement Plan in such a way that they are above the highest ground water level and will be disced or tilled in with the virgin topsoil. 2. Any change in the cultivation practices or use of the property will require reassessment of the ecological risks. 3. Material must not be stored or used near water or wetland areas in such a way that would allow discharge to groundwater or surface water. 4. Material must be stored and managed to prevent nuisance conditions or releases to the environment such as dust, runoff, objectionable odors and unsightliness. 5. Material use must comply with all applicable federal, state, and local regulations.

If you have any questions or concerns, please contact Ryan Lewis (DEQ project manager) by phone at (503) 915-4764, or email at Ryan.Lewis@deq.oregon.gov. DEQ appreciates your cooperation in protecting Oregon’s environment.

The existing land use approval for the Bull Run Filtration Facility is still under appeal at the Land Use Board of Appeals. DEQ will rescind this BUD if LUBA reverses the county land use approval.

Sincerely,

Audrey O'Brien

Audrey O'Brien, Manager
 Northwest Region, Environmental Partnerships

Enclosure: Beneficial Use of Solid Waste Determination Evaluation Report, Contaminant screening table and response to comments

Cc: Ryan Lewis, PE, DEQ NWR, Ryan.Lewis@deq.oregon.gov
David Peters, PE, PWB, David.Peters@portlandoregon.gov
Robert Fraley, PWB, Robert.Fraley@portlandoregon.gov
Vaughn Balzer, RG, DOGAMI, vaughm.balzer@dogami.oregon.gov
Dennis Terzian, RG, PBS, Dennis.Terzian@pbsusa.com
Lisa Estrin, Multnomah County, lisa.m.estrin@multco.us
Erik Forsell, Clackamas County, EForsell@clackamas.us

Beneficial Use of Solid Waste Determination Evaluation Form

Applicant: Portland Water Bureau
BUD#: 20240906
Solid waste: Contaminated Soils
Date: April 3, 2024 and updated September 6, 2024



State of Oregon
Department of
Environmental
Quality

State of Oregon Department of Environmental Quality

Beneficial Use of Solid Waste Determination Evaluation Form

Contact: Ryan Lewis
700 NE Multnomah St., Suite 600
Portland, OR 97232-4100

Applicant: Portland Water Bureau (PWB)	
BUD#: 20240402	
Solid Waste: Contaminated Soils	
Summary of proposed beneficial use: PWB proposes to reuse contaminated soils removed from the surface of the construction area for the Bull Run Filtration Project which includes a filtration facility and a raw water pipeline. The contaminated soils are impacted by historical chlorinated pesticide use including dieldrin. The soils deeper than 1.5 feet below the surface meet clean fill criteria.	
Reviewer: Ryan Lewis	Date: April 3, 2024 and updated September 6, 2024
Tier: <input type="checkbox"/> One <input checked="" type="checkbox"/> Two <input type="checkbox"/> Three	

Beneficial use of solid waste

Beneficial use of solid waste is a sustainability practice that may involve using an industrial waste in a manufacturing process to make another product or using a waste as a substitute for construction materials.

The environmental benefits of substituting industrial waste materials for virgin materials includes conserving energy, reducing the need to extract natural resources and reducing demand for disposal facilities.

Oregon Administrative Rules (OAR) 340-093-0260 - 0290 establish standing beneficial uses and a process for DEQ review of case-specific beneficial use proposals. Under these rules, DEQ may issue a beneficial use determination as an alternative to a disposal permit for proposals that meet the rule criteria. If approved, once a beneficial use determination is issued, DEQ no longer regulates the waste as a solid waste as long as the waste is used in accordance with the approved beneficial use determination.

Beneficial use determination evaluation summary

- Yes, the beneficial use of this solid waste meets all the case-specific performance criteria listed below and is approved.
- No, the beneficial use of this solid waste does not meet all the case-specific performance criteria listed below and is not approved.
- The beneficial use of this solid waste is approved for a 1-year demonstration project.

Beneficial Use of Solid Waste Determination Evaluation Form

Applicant: Portland Water Bureau
BUD#: 20240906
Solid waste: Contaminated Soils
Date: April 3, 2024 and updated September 6, 2024

Case-specific beneficial use performance criteria:

DEQ may approve an application for a case-specific beneficial use of solid waste only if all the following performance criteria are addressed:

1. Characterization of the Solid Waste;
2. Productive Beneficial Use of the Solid Waste; and,
3. The effect of the Proposed Beneficial Use on Public Health, Safety, Welfare and/or the Environment.

Did the applicant characterize the solid waste and proposed beneficial use sufficiently to demonstrate compliance with the rules for case-specific beneficial use determinations (OAR 340-093-0280) by submitting required information for the appropriate tier? (See tier sections below for detailed characterization information.)

Yes No

Was the following information submitted for DEQ review and how adequate was it?

Tier 1: **Applicable** **Not applicable**

- Did the applicant provide an adequate description of the material proposed for beneficial use, the manner of generation and the estimated quantity to be used beneficially each year?

Yes No

Notes:

The total estimated volume of contaminated soil for the proposed beneficial use is approximately 160,000 cubic yards (cy), which will be generated over the course of the project for several years. Approximately 120,000 cubic yards will be generated from tax lot 400 and approximately 40,000 cy will be generated from tax lot 100. The contaminated soil will be stockpiled on PWB property during the construction phase of the project and maintained via 1200CA permit requirements. The contaminated soil will be placed above the regional groundwater table. The contaminated soil is the surface soils (0-1.5 feet below ground surface [ft bgs]). Deeper soils have been identified as meeting clean fill limits.

The contaminated soil will be covered with one of two methods of covering (1) a geotextile fabric will be placed over the contaminated soil and 1 foot of clean fill will be placed over the top of the fabric. (2) if no geotextile is used, a 3-foot cover of clean fill will be placed over the contaminated soil. The protective cover will be maintained and vegetated post-construction until stabilized

PBS Environmental submitted the January 2024 Clean Fill Determination Report (CFDR) prior to the PWB's BUD application. The Phase II Environmental Site Assessment – Supplemental Investigation Report (Phase II) data was also submitted with this application. The application presents the data from CFDR of samples using incremental sampling methodology (ISM) of 2 decision units (DUs) in triplicate (6 samples). One DU comprising of 0-1.5 ft bgs and the other DU comprising of the material from 1.5 ft bgs to 5 ft bgs. The application presents the Phase II data of 10 composite samples of soil from 0-0.5 ft bgs from 10 composite areas and two composite samples inclusive of all composite locations from surface 0-0.5 ft bgs and 0.5-1.0 ft bgs (12 samples).

For the Phase II, samples were sent for lab analysis for the following contaminants:

- Total metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc) by EPA Methods 6020B
- Pesticides by EPA 8081B

Beneficial Use of Solid Waste Determination Evaluation Form

Applicant: Portland Water Bureau
BUD#: 20240906
Solid waste: Contaminated Soils
Date: April 3, 2024 and updated September 6, 2024

- Chlorinated Acid Herbicides by EPA 8151A

For the CFDR, the DU-1 and DU-2 samples were sent for lab analysis for the following contaminants:

- Seventeen Agricultural Metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc) by EPA Methods 6000/7000 series
- Organochlorine Pesticides by EPA 8081B
- Organophosphate Pesticides by EPA 8141A
- Chlorinated Acid Herbicides by EPA 8151

Pesticides were detected in surface ISM soil samples and composite samples at concentrations above the Clean Fill Criteria and DEQ Eco Risk for ground feeding birds and mammals. These pesticides include 4,4-DDE, 4,4-DDT, and Dieldrin. The samples below 1.5 feet did not show detections above Clean Fill Criteria.

All metals were detected below Clean Fill Criteria concentrations in both ISM surface soils and soils at depth (DU-1 and DU-2). Concentrations of metals were consistent with naturally occurring background levels.

- Did the applicant provide an adequate description of the proposed beneficial use and justify how the proposed use is beneficial?

Yes No

Notes:

The proposed beneficial use of the contaminated soil is to reuse excavated soil as non-structural fill and limit trucking emissions and impacts to landfill capacity.

- Did the applicant provide a sufficient comparison of the chemical and physical characteristics of the material proposed for beneficial use with the material it will replace?

Yes No

Notes:

PWB's BUD application includes sampling results for pesticides, herbicides, detected metals from the 17 agricultural metals list. Table 1 of Application shows the summary of the analytical results from the 2 ISM samples (in triplicate) of soil that each consisted of 50 discrete soil cores taken from locations across the project area. The upper DU included depths from 0-1.5 ft and the lower DU included depths from 1.5-5 ft. DEQ evaluated and agrees that the samples and analysis for the selected contaminants sufficiently characterize the soil being moved during the PWB Filtration Facility construction process. Clean Fill Criteria and DEQ eco risk exceedances for ISM samples are described above. These values are also compared in the table to the following risk screening levels:

- DEQ's human health risk-based concentrations (RBCs) for occupational soil ingestion, dermal contact, and inhalation
- DEQ's ecological risk for top consumers birds and mammals (Threatened and Endangered (T&E) and non T&E))
- DEQ's ecological risk for direct toxicity to plants and invertebrates

The metals concentrations are below the clean fill criteria and are consistent with naturally occurring background levels.

The proposed use of the contaminated soil from the Proposed Bull Run Filtration project as non-structural fill within the filtration facility construction area meets the beneficial use criteria of being productive and is suitable for use in construction as non-structural fill. PWB also requested that the soil be able to be used as mine reclamation fill at a DOGAMI reclamation site or as blended topsoil at a 29 acre Clackamas County farm owned by T&K Sester Family LLC

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Applicant: Portland Water Bureau
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Solid waste: Contaminated Soils
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located at Clackamas County Parcel No. 00603617, Map and Tax Lot 2S3E03 03302, The slightly contaminated soil can be used as described in the application and the conditions of this BUD.

As shown, the concentrations for pesticides at DU-1 (surface soil) exceeds the lowest T&E eco risk-based concentration (RBC). This eco RBC pertains to ground feeding birds and mammals. The presence of threatened or endangered species that utilize the site is not confirmed or discussed in the application. As the location has been used for agricultural purposed most recently, it does not provide suitable habitat or resources for threatened or endangered species. The proposed placement and reuse of contaminated soils is not anticipated to adversely affect any plant or wildlife species.

- Did the applicant successfully demonstrate compliance of the proposed beneficial use with the performance criteria in OAR 340-093-0280 based on knowledge of the process that generated the material, properties of the finished product, or testing?

Yes No

Notes:

The soil is slightly contaminated as discussed above. The contaminated soils have been identified to contain concentrations of pesticides that are above clean fill criteria but below occupational RBCs for soil materials. The soil reuse site requires import of soil as non-structural fill but will be below 3 feet of soil meeting clean fill criteria or underneath a geotextile under 1 foot of soil meeting clean fill criteria.

- If required, did the applicant provide any other DEQ required information to evaluate the proposal?
- Yes No

Notes:

Not applicable. DEQ did not require additional information.

Tier 2: **Applicable** **Not applicable**

- Did the applicant submit all the information required for a Tier 1 application?

Yes No

- Did the applicant submit adequate sampling and analysis to make a determination of suitability for beneficial use? (Note: The analysis must provide chemical, physical, and biological characterization of the material proposed for beneficial use and identify potential contaminants in the material or the end product, as applicable.)

Yes No

Notes:

DEQ considers the material testing conducted to be adequate. Sample results are discussed above.

- When applicable, did the applicant provide a risk screening comparing the concentration of hazardous substances in the material to existing, DEQ approved, risk-based screening level values, and demonstrate compliance with acceptable risk levels?

Yes No

Notes:

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A comparison to risk screening levels is discussed above. Contaminant concentrations were compared to human health risk screening levels and were found to be sufficiently low for the proposed beneficial uses. The applicant compared contaminant concentrations to ecological risk-based concentrations and is shown in Table 1 of the application.

- When applicable, did the applicant supply the location or type of land use where the material will be applied, consistent with the risk scenarios used to evaluate risk?

Yes No NA

Notes The contaminated soil is proposed for use as non-structural fill at the PWB property adjacent to the proposed filtration structures east of Gresham, Oregon in unincorporated Multnomah County.

- When applicable, did the applicant supply contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, email, site address and site coordinates (latitude and longitude)?

Yes No NA

Notes: The soil reuse location is identified as Sec. 22, T. 1 S., R.4E. The contact information is:

Robert Fraley
Portland Water Bureau
1120 SW 5th Avenue Rm 405
Portland, OR 97204
503-319-9207
Robert.Fraley@portlandoregon.gov

- Did the applicant supply an adequate description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment?

Yes No

Notes:

The contaminated soils will be managed so that they will not create an adverse impact on groundwater, surface water, or public health or safety. Contaminated soil material will be stockpiled on site during construction and reused at the project area as non-structural fill. PWB will follow their 1200CA during the entire project until final grade is established and vegetated.

Tier 3: **Applicable** **Not applicable**

- Did the applicant submit all the information required for a Tier 1 and Tier 2 application?

Yes No

- Did the applicant provide an adequate discussion of the justification for the proposal?

Yes No

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- Is there an estimated length of time that would be required to complete the project, if it is a demonstration?
 Yes No
- If it is a demonstration project, are their methods proposed to ensure safe and proper management of the material?
 Yes No

2. Productive beneficial use of the solid waste

- Has the applicant demonstrated that the proposed beneficial use is a productive use of the material by providing information substantiating the criteria listed below?
 Yes No

Notes: PWB proposes to reuse the shallow soils contaminated with pesticides at the proposed Bull Run Filtration Facility underneath a cap consisting of either 3 feet of soil or a geotextile fabric with 1 foot of soil. The contaminated soil will be used as non-structural fill at the proposed location. PWB proposes two other uses as mine reclamation fill at a DOGAMI permitted reclamation site or as blended topsoil at a farm in Clackamas County.

- Did the applicant successfully identify or demonstrate a reasonably likely proposed beneficial use for the material that is not speculative?
 Yes No

Notes: See discussion above.

This criterion consists of three parts.

1. Identified use:

Has the applicant clearly stated what the waste is going to be used for, that the waste is compatible with that use and the proposed quantity is necessary?

Yes No

Notes:

PWB estimates that the Bull Run Filtration Project will generate 160,000 cubic yards of contaminated soil and has described the non-structural fill reuse at the Tax Lot 100 and Tax Lot 400.

2. Reasonably likely use:

Has the applicant identified, with supporting documentation, the timeframe within which this use is likely to occur (e.g., zoning info, master plan for development, letters from local jurisdictions, etc.)?

Yes No

Notes:

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The application states that excavation of approximately 160,000 cubic yards of contaminated soil is planned to begin in summer 2024. The applicant expects the excavation to be completed in 2027.

3. Not speculative:

For land application - has this material been used at other sites for the same purpose, is the material feasible for use at this site for this purpose, or has the applicant identified a known potential for this use at this site?

Yes No N/A

For uses other than land application - has the material been used in a product before, is the material feasible for use in a product, or has the applicant identified a known potential for use in this product?

Yes No N/A

- Is the use a valuable part of a manufacturing process, an effective substitute for a valuable raw material or commercial product, or otherwise authorized by the Department and does not constitute disposal?

Yes No

Notes:

This is a substitute for use of clean fill to be used for regrading the soil reuse area. The reuse of the slightly contaminated soil will also prevent the material from filling valuable space in local landfills and reduce transportation costs.

- Is the use in accordance with applicable engineering standards, commercial standards, and agricultural or horticultural practices?

Yes No

Notes:

The proposed uses of the onsite excavated soils conform and follow standard engineering practices and limit risks posed by the contamination found in the soil. Also the use limits the impact of trucking emissions and the filling valuable landfill space.

3. Effect of proposed beneficial use on public health, safety, welfare and/or the environment

Has the applicant demonstrated the proposed beneficial use will not create an adverse impact to public health, safety, welfare, or the environment, by providing information substantiating compliance with the criteria listed in the bullet list below?

Yes No

Notes:

As discussed above, chemical testing of the contaminated soils indicates that the soil reuse area would not pose a risk to people or animals, if reused as described in the application.

- Has the applicant demonstrated that the material is not a hazardous waste under ORS 466.00?

Yes No

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Notes:

Contaminant concentrations are below applicable human health and ecological screening levels with the exceptions noted above.

- Has the applicant demonstrated that until the time this material is used according to a beneficial use determination, the material will be managed, including any storage, transportation, or processing, to prevent releases to the environment or nuisance conditions?

Yes No

Notes:

The application states that contaminated soil will be managed at all times to meet the following proposed BUD conditions and 1200CA. The reused soil will be managed to prevent, at all times, windblown dust, runoff and soil erosion, releases to the environment or nuisance conditions. The reused soil will be placed away from environmentally sensitive areas to protect waters of the State (such as wetlands, wildlife refuges and parks). PWB will maintain records documenting the amounts of contaminated soil transported to the soil reuse location by year.

PWB will comply with all applicable federal, state, and local regulations when using the material. PWB identifies in the application and will manage the contaminated soil in accordance with the 1200 CA permit.

- Has the applicant demonstrated that hazardous substances in the material, if any, meet one of the criteria in the bulleted list below?

Yes No

- Hazardous substances do not significantly exceed the concentration in a comparable raw material or commercial product;
- Hazardous substances do not exceed naturally occurring background concentrations; or
- Hazardous substances will not exceed acceptable risk levels, including persistence and potential bioaccumulation, when the material is managed according to a beneficial use determination.

Notes:

Testing results indicate that the hazardous substances in the contaminated soils do not significantly exceed the concentration in a comparable raw material (soil).

- Has the applicant demonstrated that the proposed beneficial use will not result in the increase of a hazardous substance in a sensitive environment, such as a park, wildlife refuge or wetland?

Yes No

Notes:

The material will not be placed in a sensitive environment. In addition, contaminant concentrations meet clean fill screening levels for most contaminants and exceedances are minor for those above clean fill values.

- Has the applicant demonstrated that the proposed beneficial use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions?

Yes No

Notes:

The application states that the reused contaminated soil will be managed in accordance with the procedures and best management practices outlined in the PWB 1200 CA permit.

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- Has the applicant indicated that the proposed beneficial use will comply with any other applicable federal, state, and local regulations?
 Yes No

4. Public Involvement Evaluation (Note: this is not a beneficial use evaluation criterion)

Determine a public involvement recommendation using the current Guidance to DEQ Solid Waste Program Staff and Managers on Public Notice and Participation.

- Is public notice and participation being recommended for this application?
 Yes No

Notes:

DEQ is aware of public interest in the proposed use of the material, posted a Public Notice that included a community public meeting and extended the public comment period until August 8, 2024 to accommodate requests from the community.



Filtration Facility Property and Finished Water Pipeline

Filtration Water Facility Property And Raw Water Connection							
Constituent Name	Concentration Detected in Soil		Screening Level Values				
	Low	High	Oregon Clean Fill	Residential	Occupational	Construction/Excavation Worker	Leaching to Groundwater
Sum DDT ¹	0.01034	0.114	0.0063	1.8	8.2	9.7/270	2.6
Dieldrin	0.00228	0.0366	0.0045	0.034	0.14	1.2/33	0.03
Arsenic ²	<2.63	3.25	8.8	0.43/8.8	1.9/8.8	15	-
Lead	9.96	12.8	28	400	800	800	30

Finished Water Pipeline Alignment							
Constituent Name	Concentration Detected in Soil		Screening Level Values				
	Low	High	Oregon Clean Fill	Residential	Occupational	Construction/Excavation Worker	Leaching to Groundwater
Heavy Oil	<36.6	195	1,100	1,100	14,000	4,600	9,500
Sum DDT ¹	0.00595	0.1533	0.0063	1.8	8.2	9.7/270	2.6
Dieldrin	<0.00197	0.0207	0.0045	0.034	0.14	1.2/33	0.03
Arsenic ²	2.94	4.85	8.8	0.43/8.8	1.9/8.8	15	-
Lead	10	28.3	28	400	800	800	30

Notes:

Analytical data from "Clean Fill Determination Report" for the Bull run Filtration Facility, Gresham Oregon, January 2024.

All concentrations in mg/kg

1 "Sum DDT" represents the sum of detected pesticide chemicals which include DDD, DDE, and DDT. For human health screening levels, the lowest value for the individual chemicals is shown.

2 Human Health clean-up values for arsenic default to background value, since risk-based value is less than background.

Concentrations represent Oregon Background Metals Concentrations in Soil for Portland Basin.

 Highlight indicates high value of concentration detected in Soil exceeds applicable screening level value.

Translation or other formats

Español | 한국어 | 繁體中文 | Русский | Tiếng Việt | العربية

800-452-4011 | TTY: 711 | deqinfo@deq.oregon.gov

Non-discrimination statement

DEQ does not discriminate on the basis of race, color, national origin, disability, age or sex in administration of its programs or activities. Visit DEQ's [Civil Rights and Environmental Justice page](#).