

Applicant: Christopher Bozzini, Portland General Electric	· •
BUD#: 20170602	
Solid Waste: slightly contaminated dredge material	
Summary of Proposed Beneficial Use: On-site use to create upland habitat	
Reviewer: Heather Kuoppamaki	Date: 06/19/2017
Tier: One Two 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) 340-093-0280 - 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.
<u>Notes:</u> Historic onsite dredge material is being excavating and reused onsite as fill for upland habitat. The historic dredge material will be covered with native clean fill soils. The project has been reviewed by the Portland Sediment Evaluation Team. The site is a restoration project under the Portland Harbor Natural Resource Damage Assessment process.

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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 affect of the Proposed Beneficial Use on Public Health, Safety, Welfare and/or the Environment.

Environment.	
1) Characterization of the Solid Waste	
Did the applicant characterize the solid waste and proposed beneficial use sufficiently to demonstrate the rules for case-specific beneficial use determinations (OAR 340-093-0280) by submittinformation for the appropriate tier? (See tier sections below for detailed characterization information for the appropriate tier?	ng required ·
⊠ Yes □ No	
Notes: The material consists of historic onsite dredge material that is being excavant reused as fill to create upland habitat. The dredge material will be covered with material.	
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 benefic of generation and the estimated quantity to be used beneficially each year? 	cial use, the manner Yes
Notes: This will be a one-time use of less than 165,000 cubic yards of mate	<u>erial.</u>
Did the applicant provide an adequate description of the proposed beneficial use and proposed use is beneficial? ☐ Yes ☐ No	justify how the
Notes: Yes, the use will be at a restoration site to create upland habitat.	
 Did the applicant provide a sufficient comparison of the chemical and physical charact material proposed for beneficial use with the material it will replace? ☑ Yes ☐ No 	eristics of the
Notes: Dredge material going as fill.	
 Did the applicant successfully demonstrate compliance of the proposed beneficial use performance criteria in OAR 340-093-0280 based on knowledge of the process that ge material, properties of the finished product, or testing?	
If required, did the applicant provide any other DEQ required information to evaluate the last of the last o	ne proposal?

 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

Tier 2

Notes:

Applicable Not applicable

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

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the material proposed for beneficial use and identify potential contaminants in the material or the end product, as applicable.)
Notes: PGE went through the Sediment Evaluation Framework and evaluated re-use of the fill soils.
 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: Human receptor pathways were deemed potentially complete but insignificant. Some ecological receptor pathways were complete. Plants and invertebrates are not at risk to soil contamination after remediation. Terrestrial and semi-aquatic birds and mammals are at negligible risk of exposure to PAHs and not at risk of expose to other contaminants of concern after restoration.
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
Notes: Upland habitat
• 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, e-mail, site address and site coordinates (latitude and longitude)? ☐ Yes ☐ No ☐ NA
Notes: Applicant is the property owner.
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 material (historic dredge material generated onsite) will be covered. Risk assessment was performed.
Tier 3 Applicable Not applicable
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?
Notes:
Did the applicant successfully identify or demonstrate a reasonably likely proposed beneficial use for the material that is not speculative?
Applicant provided plans with grades for creating the upland habitat.
The applicant is a port district and has demonstrated the proposed use is upland placement of dredged material in accordance with Senate Bill 412. ☐ Yes ☑ No
This criterion consists of three parts.
1. Identified Use:

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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 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)? 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 Notes: The dredge material will be used to create upland habitat as part of a restoration project. 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? Notes: The material replaces clean fill that would need to be imported. Is the use in accordance with applicable engineering standards, commercial standards, and agricultural or horticultural practices? ☐ Yes ☐ No Notes: 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? Notes: Has the applicant demonstrated that the material is not a hazardous waste under ORS 466.00? ☐ Yes ☐ No Notes: Applicant performed testing of the soil for known contaminants of concern. 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 material will be immediately placed into the stockpile. Management of the material will be done in accordance with the site's Contaminated Media Management Plan.

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•	in the bulleted list below? Substances in the material, if any, meet one of the chiefle in the bulleted list below?
	 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:
•	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 project will excavate material that will be reused as upland fill and capped with native clean fill.
•	Has the applicant demonstrated that the proposed beneficial use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions? ☐ Yes ☐ No
	Notes:
•	Has the applicant indicated that the proposed beneficial use will comply with any other applicable federal, state, and local regulations? ☐ Yes ☐ No
	Notes: The SEF team has reviewed the proposal. DEQ will also determine if any additional agencies need to be made aware of this proposed project.
Determ	olic Involvement Evaluation (Note: this is not a Beneficial Use evaluation criterion) ine a public involvement recommendation using the current, <i>Guidance to DEQ Solid Waste Program and Managers on Public Notice & Participation</i> .
•	Is public notice and participation being recommended for this application? ⊠ Yes □ No
	Notes: The BUD put out for a public comment from November 29, 2017 until January 12, 208. No comments were received.