DESCHUTES COUNTY SOLID WASTE ADVISORY COMMITTEE (SWAC) MEETING

Tuesday, August 15, 2023, 9:00 a.m.-11:00 a.m.

Deschutes Services Building (1300 NW Wall Street, Bend, OR 97703) or Zoom

Zoom Meeting Information: This meeting may be accessed via Zoom using a phone or computer.
- To join the meeting from a computer, copy and paste this link: bit.ly/40aKaGc
- To join by phone, call 253-215-8782 and enter webinar ID #893 0788 6009 followed by the passcode 773333.
- If joining by a browser, use the raise hand icon to indicate you would like to provide public comment, if and when allowed. If using a phone, press *6 to indicate you would like to speak and *9 to unmute yourself when you are called on.

August Meeting Agenda

1. Welcome
2. Review/ Approve June Meeting Minutes
3. Final Site Evaluations – Progress Updates
4. BLM Site Focused Screening Results
5. Public Comment
6. SWAC Discussion
7. Adjourn

Managing the Future of Solid Waste: Solid Waste Management Facility resource information
Story Map: Deschutes County Managing the Future of Solid Waste informational story map including Frequently Asked Questions
Solid Waste Advisory Committee Meetings: April 2022 to June 2023 agendas, minutes of the meetings, and other material
Deschutes County Meeting Portal - Solid Waste Advisory Committee Meetings: August 2023 and later calendar dates, agendas, minutes of the meetings

Deschutes County encourages persons with disabilities to participate in all programs and activities. This location is accessible to people with disabilities. If you need accommodation to make participation possible, please call the Solid Waste office at (541) 317-3163, or send an email to solidwaste@deschutes.org.

Condado de Deschutes alienta a las personas con discapacidad a participar en sus programas y actividades. Este lugar es accesible para personas con discapacidad. Si necesita hacer arreglos para hacer posible la participación, llame a Solid Waste la oficina a (541) 317-3163, o envie un correo electrónico a solidwaste@deschutes.org.
1. Welcome
2. Review/ Approve June Meeting Minutes
3. Final Site Evaluations – Progress Updates
4. BLM Site Focused Screening Results
5. Public Comment
6. SWAC Discussion
7. Adjourn
Final Site Evaluations: Progress Updates
SWAC recommended further study of Moon Pit & Roth East Sites in June 2023. Updates:

- Drone survey complete
- Conceptual design beginning this week
- Additional field work is being scheduled:
  - Geophysical survey
  - Geotechnical drilling
  - Cultural resources fieldwork
  - Natural resources field work
  - Transportation onsite assessment
Moon Pit Site Drone Survey
Roth East Site Drone Survey
BLM Sites
Focused Screening Updates & Comparison to Other Sites
Public Comments in Opposition to Powell Butte Hwy BLM Site
Public Comments in Opposition to Powell Butte Hwy BLM Site

- Environmental Impacts
- Health and Safety Concerns
- Aesthetic Impact
- Use of BLM Land
- Landfill Site Alternatives
- Proximity to Residential Areas
- Wildlife and Wildflower Conservation
- Traffic and Infrastructure Concerns
- Airport Safety
- Property Values and Financial Impacts
BLM Areas of Interest
(presented in February 2023 SWAC Meeting)

Areas of Interest For Potential BLM Sites
Community Outreach & Engagement

Focused Screening Site Overview

Within 5-mile Airport Radius

- HWY 97 BLM Site
- Powell Butte BLM Site
- HWY 20 BLM Site
- Moon Pit Site willing lessor
- 2 sites – Roth West & Roth East, willing sellers
- DSL-owned properties encumbered by leased grazing rights
- Owners requested removal from consideration
- Owner not interested in selling

Owners requested removal from consideration

Owners not interested in selling

DSL-owned properties encumbered by leased grazing rights

Legend

- Existing Landfills and Transfer Stations (Deschutes Co.)
  - Knot Landfill
  - Transfer Station

- County Boundary (Deschutes Co.)

- Exclusionary Areas

- Public Lands (Deschutes Co.)
  - Federal Land
  - State Land
  - County Land

- Potential Solid Waste Management Facility Sites
  - Sites identified for Focused Screening
Moon Pit Site (191400-200)

(Finalist site approved by SWAC for further study)

Considerations:
- Existing surface mine site
- Onsite industrial wells
- Paved Rd from Highway 20
- Deep groundwater ~1000’ BGS
- Owner willing to lease land for SWMF operations
- 0 residences within 1 mile
- 1 residence within 2 miles
- Potential for landfill cells to be excavated by gravel mining operations
- Reclamation by landfill
- Environmental & cultural resources and related impacts already studied and monitored
- Adjacent to Badlands Wilderness Area & trailhead
- Established prior to designation of Badlands Wilderness Area
- Not visible from Highway 20
- 20 miles from waste centroid
Roth West Site (201500-300)

Approximate developable area shown, 250 ac landfill footprint required.

Considerations:

- Parcel area: 1,783 acres
- Owner is interested in selling
- Within Millican Valley / Plateau
- Within Low Density Sage Grouse Habitat Area
- Variety of recreational uses in broad vicinity
- Millican airstrip decommissioned in 1992 by County at request of State
- 3 residences within 1 mile
- 26 residences within 2 miles
- Highly visible from Hwy 20 and Pine Mountain Road
- 28 miles from waste centroid

(SWAC recommended removal from further consideration)
Roth East Site (201500-301)

(Finalist site approved by SWAC for further study)

Considerations:
- Parcel area: 1,706 acres
- Owner is interested in selling
- Within Millican Valley / Plateau
- Within Low Density Sage Grouse Habitat Area
- Variety of recreational uses in broad vicinity
- 2 residences within 1 mile
- 8 residences within 2 miles
- Less visual impacts from Pine Mountain Rd and Hwy 20 (compared to Roth West) due to distance and topographic screening in some directions.
- 29 miles from waste centroid
DSL South Site (211900)

Considerations:

- Acquisition Potential is challenging due to ownership by Division of State Lands (DSL)
- Property encumbered by existing grazing land leases and Sage Grouse Candidate Conservation Agreement w/ Assurances with USF&W
- Property area is 625 acres
- Access easement required for truck access from Hwy 20
- 0 residences within 1 mile
- 1 residence within 2 miles
- No known existing wells or water rights onsite
- Powerline along Highway 20
- 52-56 miles from waste centroid

(SWAC recommended removal from further consideration)
Community Outreach & Engagement

DSL North Site (212000)

587 acres
405 acres

Approximate developable areas shown, 250 ac landfill footprint required.

Considerations:
- Acquisition Potential is challenging due to ownership by Division of State Lands (DSL)
- Property encumbered by existing grazing land leases and Sage Grouse Candidate Conservation Agreement w/ Assurances with USF&W
- Property area is 2117 acres, with multiple options for potential disposal site
- Existing access via Hwy 20 and gravel road
- 2 residences within 1 mile
- 3 residences within 2 miles
- Existing wells and residences nearby
- Adjacent to alfalfa farming
- No known wells or water rights onsite
- No nearby power infrastructure
- 52-56 miles from waste centroid

(SWAC recommended removal from further consideration)
Considerations:

- Acquisition Potential is challenging due to ownership by Bureau of Land Management (BLM), but possible to expedite via congressional action.
- Property area is 578 acres, with 256-acre footprint possible.
- Access via Deschutes Pleasant ridge Rd crosses railroad tracks.
- 72 residences within 1 mile.
- 895 residences within 2 miles.
- Existing wells and residences nearby.
- Adjacent to solar farm and Redmond Rod and Gun Club.
- No known wells or water rights onsite.
- Power infrastructure to South and West near site periphery.
- 11 miles from waste centroid.

(SWAC recommended removal from consideration due to <5 mile proximity to Redmond Airport Masterplan Boundary)
Powell Butte BLM Site (161300)

Considerations:
- Acquisition Potential is challenging due to ownership by BLM, but possible to expedite via congressional action.
- Property area is 2929 acres, with 329-acre footprint possible.
- Access via Powell Butte Highway and Morrill Rd.
- ~10 residences within 1 mile.
- ~40 residences within 2 miles.
- Two major resort communities (Juniper Reserve, Brasada Ranch) within 3 miles.
- Closest existing well ~0.4 miles.
- Abuts county border with Crook County.
- No Sage Grouse zones within 3.1 miles.
- No known wells or water rights onsite.
- Power infrastructure to North along Majestic View Lane.
- 17.5 weighted miles from waste centroid.
- Substantial public opposition to site.
Considerations:

- Acquisition Potential is challenging due to ownership by Bureau of Land Management (BLM), but possible to expedite via congressional action.
- 451-acre footprint being evaluated within large BLM parcel.
- Access via Horse Ridge Frontage Rd.
- 0 residences within 1 mile.
- 18 residences within 2 miles.
- Existing wells nearby.
- Variety of recreational uses in vicinity.
- No known wells or water rights onsite.
- Power infrastructure over 1 mile to the North along Hwy 20.
- 1.2 miles from draft Low Density Sage Grouse Habitat.
- 11 miles from waste centroid.
- No public opposition on record.
# Community Outreach & Engagement

## Focused Site Scoring Results

### (Site Characteristics & Engineering)

**SITE ID:** 191400-200 201500-300 201500-301 211900 212000 161244*** 161300 181300

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<th>Site Characteristics/Engineering</th>
<th>SITE</th>
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<th>201500-300</th>
<th>201500-301</th>
<th>211900</th>
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<th>161244***</th>
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<td>NAME:</td>
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<td>ROTH WEST</td>
<td>ROTH EAST</td>
<td>DSL SOUTH</td>
<td>DSL NORTH</td>
<td>HWY 97 BLM</td>
<td>POWELL BUTTE BLM</td>
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<td>Migratory Birds, Including Bald and Golden Eagles</td>
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## Focused Site Scoring Results (Land Use)

**SITE ID:** 191400-200 201500-300 201500-301 211900 212000 161224*** 161300 181300

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<thead>
<tr>
<th>Name</th>
<th>MOON PIT</th>
<th>ROTH WEST</th>
<th>ROTH EAST</th>
<th>DSL SOUTH</th>
<th>DSL NORTH</th>
<th>HWY 97 BLM</th>
<th>POWELL BUTTE BLM</th>
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<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>3.00</td>
</tr>
<tr>
<td>Known Cultural Resources</td>
<td>30%</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Potential for Buried Archaeological Sites</td>
<td>30%</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

***: REMOVED FROM CONSIDERATION DUE TO PROXIMITY TO RDM AIRPORT MASTERPLAN BOUNDARY
### Focused Site Scoring Results

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site Name</th>
<th>Site Characteristics / Engineering</th>
<th>Natural Environment</th>
<th>Land Use</th>
<th>Total Weighted Site Score:</th>
</tr>
</thead>
<tbody>
<tr>
<td>191400-200</td>
<td>Moon Pit</td>
<td>3.90</td>
<td>3.60</td>
<td>3.40</td>
<td><strong>3.64</strong></td>
</tr>
<tr>
<td>201500-300</td>
<td>Roth West</td>
<td>3.72</td>
<td>3.40</td>
<td>3.53</td>
<td><strong>3.55</strong></td>
</tr>
<tr>
<td>201500-301</td>
<td>Roth East</td>
<td>3.79</td>
<td>3.40</td>
<td>3.63</td>
<td><strong>3.60</strong></td>
</tr>
<tr>
<td>211900</td>
<td>DSL South</td>
<td>3.10</td>
<td>3.40</td>
<td>2.93</td>
<td><strong>3.15</strong></td>
</tr>
<tr>
<td>212000</td>
<td>DSL North</td>
<td>3.08</td>
<td>3.60</td>
<td>2.45</td>
<td><strong>3.07</strong></td>
</tr>
<tr>
<td>161224***</td>
<td>HWY 97 BLM</td>
<td>3.26</td>
<td>4.70</td>
<td>3.78</td>
<td><strong>3.69</strong></td>
</tr>
<tr>
<td>161300</td>
<td>POWELL BUTTE BLM</td>
<td>2.49</td>
<td>4.70</td>
<td>3.33</td>
<td><strong>3.51</strong></td>
</tr>
<tr>
<td>181300</td>
<td>HWY 20 BLM</td>
<td>3.2</td>
<td>3.70</td>
<td>3.63</td>
<td><strong>3.50</strong></td>
</tr>
</tbody>
</table>

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Five major cost factors were identified, which influence the costs to develop and operate a solid waste management facility.

These cost factors include (with estimated weighting):

- Excavation (30%)
- Waste hauling (25%)
- Road infrastructure (15%)
- Power infrastructure (15%)
- Water infrastructure (15%)
## Comparative Cost Factor Analysis

### Cost Factor Weighting:

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site Name</th>
<th>Excavation Costs</th>
<th>Haul Costs</th>
<th>Road Infrastructure Costs</th>
<th>Power Infrastructure Costs</th>
<th>Water Infrastructure Costs</th>
<th>Weighted Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>191400-200</td>
<td>Moon Pit</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td><strong>4.15</strong></td>
</tr>
<tr>
<td>201500-300</td>
<td>Roth West</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td><strong>2.70</strong></td>
</tr>
<tr>
<td>201500-301</td>
<td>Roth East</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td><strong>3.00</strong></td>
</tr>
<tr>
<td>211900</td>
<td>DSL South</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>1</td>
<td><strong>1.60</strong></td>
</tr>
<tr>
<td>212000</td>
<td>DSL North</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td><strong>2.35</strong></td>
</tr>
<tr>
<td>161224***</td>
<td>HWY 97 BLM</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td><strong>2.90</strong></td>
</tr>
<tr>
<td>161300</td>
<td>Powell Butte BLM</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td><strong>2.5</strong></td>
</tr>
<tr>
<td>181300</td>
<td>HWY 20 BLM</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td><strong>2.3</strong></td>
</tr>
</tbody>
</table>

Each site was given a score of 1 to 5 with respect to each cost factor, where 1 represents the *highest* cost and 5 represents the *lowest* cost.

As a result, the sites with higher weighted total scores are anticipated to be relatively less expensive to develop and operate, while the sites with lower weighted total scores are anticipated to be relatively more expensive to develop and operate.

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Based on this cost factor analysis, it is estimated that SWMF development and operational costs could likely be the lowest for the Moon Pit site and highest for the DSL and BLM sites. The SWMF development and operational costs related to the Roth sites are expected to fall between these two extremes, being more expensive than the Moon Pit site and less expensive than the DSL and BLM sites.
It is well understood that a new solid waste management facility could negatively impact nearby residences.

Unsurprisingly, residents and property owners near candidate sites have expressed opposition to the prospect of a new SWMF site near their homes.
Concerns of nearby residents are generally that a new SWMF facility could have several adverse impacts within the vicinity, including:

- Haul truck traffic
- Noise
- Dust
- Air pollution
- Odors
- Litter
- Invasive species
- Groundwater contamination
- Scenic impacts
- Decreased property values

Note: Mitigating potential impacts is a key component to site development and operations.
Residential Proximity Analysis

Moon Pit Site (191400-200)

Known Residences

Workable Site Area (Focus Screen)

Workable Site Area Distance Buffers

1 mile

2 miles
Community Outreach & Engagement

Residential Proximity Analysis

Roth West Site (201500-300)
Roth East Site (201500-300)

Known Residences

Workable Site Area (Focus Screen)

Workable Site Area Distance Buffers
- 1 mile
- 2 miles
Residential Proximity Analysis

DSL South Site (211900)
DSL North Site (212000)

Known Residences

Workable Site Area (Focus Screen)

Workable Site Area Distance Buffers
- 1 mile
- 2 miles
Residential Proximity Analysis

HWY 97 BLM Site (161224)

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MASTERPLAN BOUNDARY

Known Residences
(not mapped individually for this site, 50+ residences within 1 mile and 300+ residences within 2 miles)

Workable Site Area (Focus Screen)

Workable Site Area Distance Buffers

- 1 mile
- 2 miles
POWELL BUTTE BLM Site (161224)

Known Residences
(not mapped individually for this site, approx. 10 residences within 1 mile and 40 residences within 2 miles based on aerial imagery, two major resort communities within 3 miles of the site)

Workable Site Area Distance Buffers
- 1 mile
- 2 miles
Residential Proximity Analysis

HWY 20 BLM Site (181300)

Known Residences
(not mapped individually for this site, no known residences within 1 mile and approximately 18 residences within 2 miles based on aerial imagery)

Workable Site Area Distance Buffers
- 1 mile
- 2 miles
# Residential Proximity Analysis

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Site Name</th>
<th>Known Residences within 1 Mile</th>
<th>Known Residences within 2 Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>191400-200</td>
<td>Moon Pit</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>201500-300</td>
<td>Roth West</td>
<td>3</td>
<td>26</td>
</tr>
<tr>
<td><strong>201500-301</strong></td>
<td>Roth East</td>
<td><strong>2</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>211900</td>
<td>DSL South</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>212000</td>
<td>DSL North</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>161224***</td>
<td>HWY 97 BLM</td>
<td>50+</td>
<td>300+</td>
</tr>
<tr>
<td>161300</td>
<td>Powell Butte BLM</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>181300</td>
<td>HWY 20 BLM</td>
<td>0</td>
<td>18</td>
</tr>
</tbody>
</table>

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Public Comments
Public Comments

3 minutes per person
Based on number of people wishing to comment

Written comments can also be sent to:
managethefuture@deschutescounty.gov
SWAC Discussion
Adjourn