



King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

Cedar Hills Regional Landfill

Virtual Community Meeting

October 13, 2021

Meeting Agenda

01 Welcome and introductions
Kathy Hashagen

02 Meeting goals and landfill overview
Pat McLaughlin

03 Bio Energy update
Kevin Singer

04 Construction & Environmental Monitoring
Laura Belt

05 Landfill Operations
Scott Barden

06 Q & A



Tonight's Speakers



Kathy Hashagen

Facilitator



Pat McLaughlin

King County Solid Waste Division Director



Kevin Singer

Bio Energy Washington Plant Manager



Laura Belt

Engineer, Department of Natural Resources and Parks



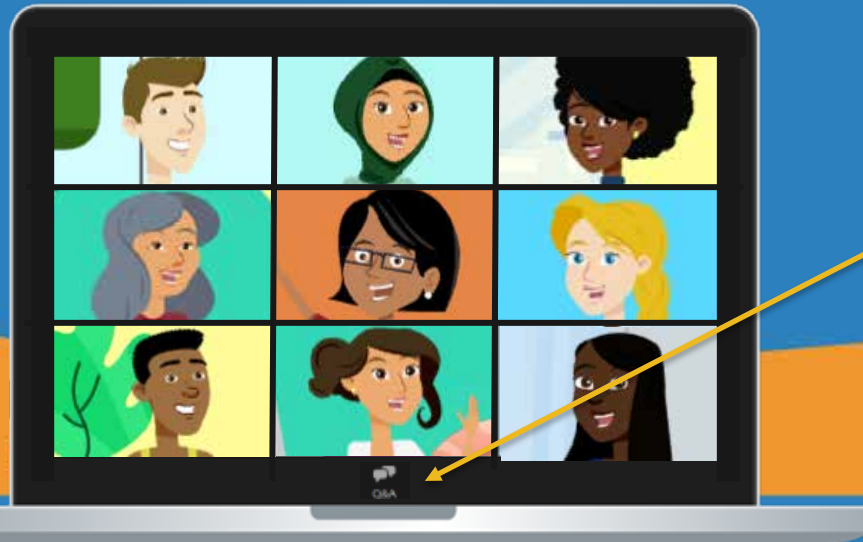
Scott Barden

Cedar Hills Assistant Operations Manager

Zoom Webinar Highlights

Video and audio is only enabled for presenters

Questions can be submitted with the Q&A button



Please keep questions concise.

Similar questions may be grouped together.



Meeting Goals

Inform you about activities taking place at the landfill and changes that are planned or being evaluated.

Listen and respond to your questions or concerns.



Our Mission

We bring the best people together to deliver value to our customers and stakeholders and continuously improve waste prevention, resource recovery, and waste disposal.



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Cedar Hills Regional Landfill begins operation in 1963.



Bio Energy Washington renewable energy plant opens on-site.



1960s

1980s

2000s

2021 and beyond



New environmental protections go into place. Older areas of the landfill receive cover systems and controls. Full daily cover begins.



Cedar Hills Renewable Natural Gas Plant – Community Update, October 2021



Bio Energy Washington – Overview

- Convert landfill gas to pipeline renewable natural gas through a series of compression and separation processes
- Established in 2008 in a partnership with King County Solid Waste and Puget Sound Energy
- Recover around 80% of methane from landfill gas for beneficial use – about 75% goes to the distribution pipeline owned by PSE and Williams
- Three core values: Health and Safety, Environmental Excellence and Continuous Improvement

Bio Energy Washington – Operations

- Hotline: 425-392-3918 for any concerns
- One recordable injury – employee misstep off of concrete and injured ankle
- Audited by Dept. of LNI with no findings
- No environmental exceedances in past 12 months.
- 93% Uptime in 2021
- Covid-19 has had minimal impact on our operation
- Sustained improvements in our Generator House catalysts, Sulfur Media change-outs, and electrical reliability

Bio Energy Washington – Future Outlook

- No significant modifications or changes planned that would adversely affect noise, odor or the community
- Continue routine maintenance work, inspections, and media replacements to ensure reliable operation

Site Development Plan

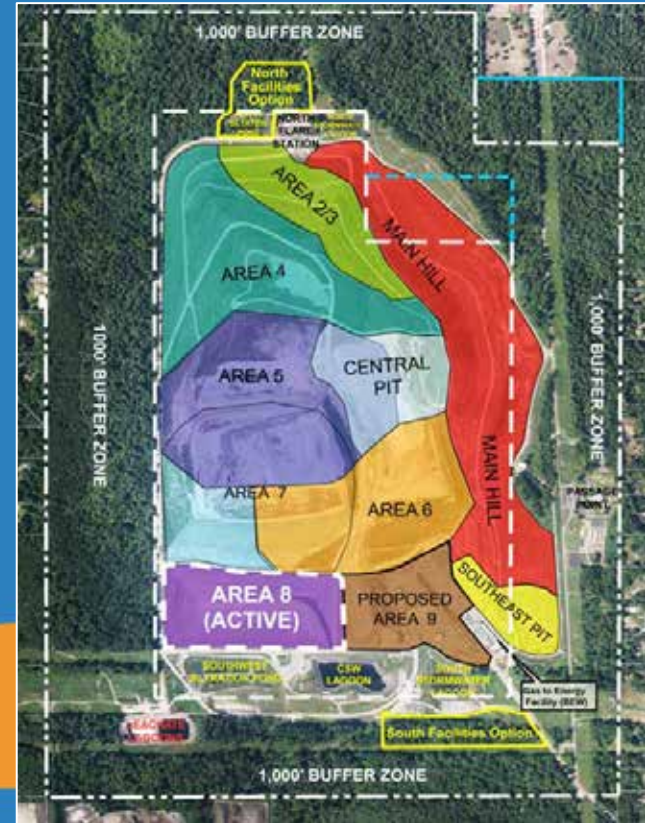
Environmental Impact Study (EIS) Underway

Currently moving personnel off-site

EIS is evaluating best permanent
option for staff moving forward

Two options for on-site location

One option for off-site location



Work Underway Now

Closure of Area 7 completed

Final tarp in place

Construction of tie-in between Area 7 and Area 8 underway this fall

Reforestation of the buffer on west side

Developing schedule now, including community feedback period

Process will include some deciduous clearing, removing undergrowth, replanting new trees



Ongoing Groundwater Monitoring

48 groundwater monitoring wells throughout the site

Water level and quality continuously checked by staff

Continuing work with Dept. of Ecology to implement recommendations on perched zone (area impacted by past landfilling)



Landfill Operations Update

Update on technologies under evaluation: Daily Cover

Enviro Cover

Non-reusable geosynthetic film

Made from polyethylene ADC (plastic wrap)

Benefits

Controls gas and water

Saves air space

Can operate on it the next morning



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Enviro Cover Evaluation

Meets EPA standards for controlling:

Vectors (rodents, flies)

Fire

Odor

Blowing litter

Scavenging



Outside Consultations



Davis LF (Utah)

Was a benefit.

Were importing soils for cover previously.



Miramar LF (California)

Spoke to lead engineer.

No real benefit, no measurable difference.

Seeing product has been a challenge
COVID 19 travel ban for King County

Odor Control Systems

Byers Scientific: Odor Control Neutralizer

Request for approval submitted to Puget Sound Clean Air Agency Sept. 24

Operating plan also submitted

■ Daily soil cover ■ Intermediate cover area



Byers Scientific: Odor Control Neutralizer

Odors ride the air as gases

System uses plant-based vapor that is vented into the air to bond with odors

Chemical reaction instantly neutralizes odors rather than masking them



Other Operations Updates



Annual vegetation control
Work currently underway



Landfill tours
In-person customer services remain
suspended because of COVID



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Panelists will do their best to address all questions submitted during the meeting.

If time does not allow us to answer all questions, answers will be prepared and posted on the King County website and a link will be sent to participants.



Thank you for joining us!

Landfill Concerns 24/7 Call Line

206-477-4466

Emergency

911



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