



**King County**

Department of  
Natural Resources and Parks  
**Solid Waste Division**

Waste  
Prevention

Resource  
Recovery

Waste  
Disposal

# Cedar Hills Regional Landfill

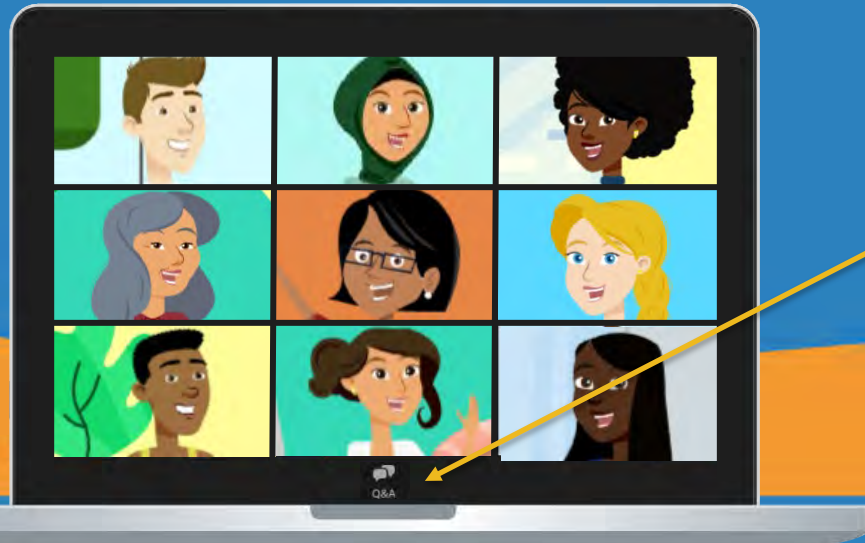
## Virtual Community Meeting

April 27, 2022

# 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

# 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

# Meeting Agenda

**01** Welcome and introductions  
Kathy Hashagen

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**02** Meeting goals and landfill overview  
Pat McLaughlin

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**03** Bio Energy update  
Kevin Singer

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**04** Construction & Environmental Monitoring  
Laura Belt

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**05** Landfill Operations  
Joseph Newton

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**06** Q & A







## 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 Renewable Natural Gas Plant – Community Update, April 2022



## 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
- No recordable injuries since last update.
- No environmental exceedances in past 12 months.
- Successfully completed annual emissions testing on GenHouse and Thermal Oxidizer in Nov. 2021
- 94% Uptime in 2021
- Average daily production of 3,578 MMBtu/day
- 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

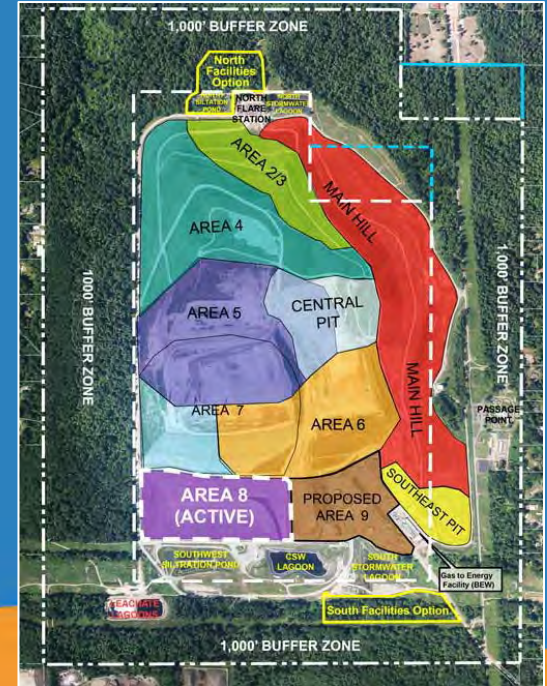
- No significant modifications or changes planned that would adversely affect noise, odor or the community
- Continue routine maintenance work, inspections, and media replacements to ensure reliable operation

# Final Environmental Impact Study (FEIS)

Issued March 22, no appeals or challenges

Changes made based on feedback from initial EIS:

- Conducted additional air quality studies in response to public input
- Conducted additional noise studies in response to public input
- Clarified language within the document

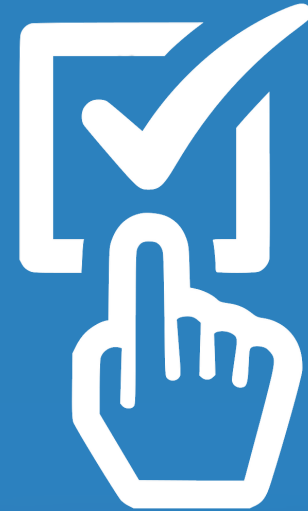


Full FEIS document available at [kingcounty.gov/cedar-hills](https://kingcounty.gov/cedar-hills)

# Site Development: Next Steps

Division Director will make decision on preferred alternative during second quarter of 2022

Permitting process will provide additional opportunities for public engagement



# Work Underway Now

## Closure of Area 7

Installed nine vertical wells last summer

Completed final cover for side slopes and partial top, completing top this summer

## Reforesting the buffer on west side

Developing contract

Planning to present proposal this summer





# Ongoing Groundwater Monitoring

48 groundwater monitoring wells throughout the site

Water level and quality tested quarterly - continues to meet or exceed federal drinking water standards

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



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# Leachate Lagoon Improvement Project

## Design work underway for improvements

*Construction to begin in 2023*

- Double liner
- New aeration equipment
- Cover

## Air Quality

Air quality and potential odor from ponds evaluated in FEIS

Pond emissions tested and modeled for dispersion

Model calibration with measurements in surrounding communities

Similar exercise for potential air toxics and odor sources



## Findings showed no concerns

However, SWD continuing to look for methods to reduce potential odor in response to resident concerns

# Landfill Gas System Improvements

- + Continual evaluation of landfill gas flow and quality
- + Installation of vertical wells - 20 more this fall
- + Pilot testing new valves
- + Emissions monitoring and estimation
- + Alternative Emissions modeling - SWICS



# Landfill Operations Update

## Byers Intelligent Odor Control System

System now operational at Cedar Hills

Uses plant-based vapor that vents into the air to bond with odors. Instantly neutralizes odors rather than masking.

Able to move the system strategically to address active areas



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# Landfill Operations Update

## EnviroSuite

Currently in data collection stages

Air Quality

Odor

Noise

Vibration

Real-time smart alerting

Automated compliance

KC Engineering and Ops Staff scheduling training



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# Moving toward Carbon Neutral



## New electric vehicle charging stations

- Eight charging stations
- Supports continued addition of EV vehicle to fleet

## Zero emissions tractor trailer

- Kenworth T680E tractor trailer
- First class 8 zero emissions vehicle in waste management in US
- Arriving this summer

# Other Operations Updates



## Annual vegetation control

In the process of hiring seasonal help to assist with increased spring/summer needs

## Landfill tours

Tours of the Cedar Hills Landfill have resumed and can be booked through the King County website



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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