

December 7, 2023

# Community Liaison Advisory Committee Meeting

## Clean Harbors Lambton Facility



# Agenda

## Introduction

## Updates

- Landfill
- Thermal Desorber Unit
- Incinerator
- Compliance



# Landfill

Tom Weir



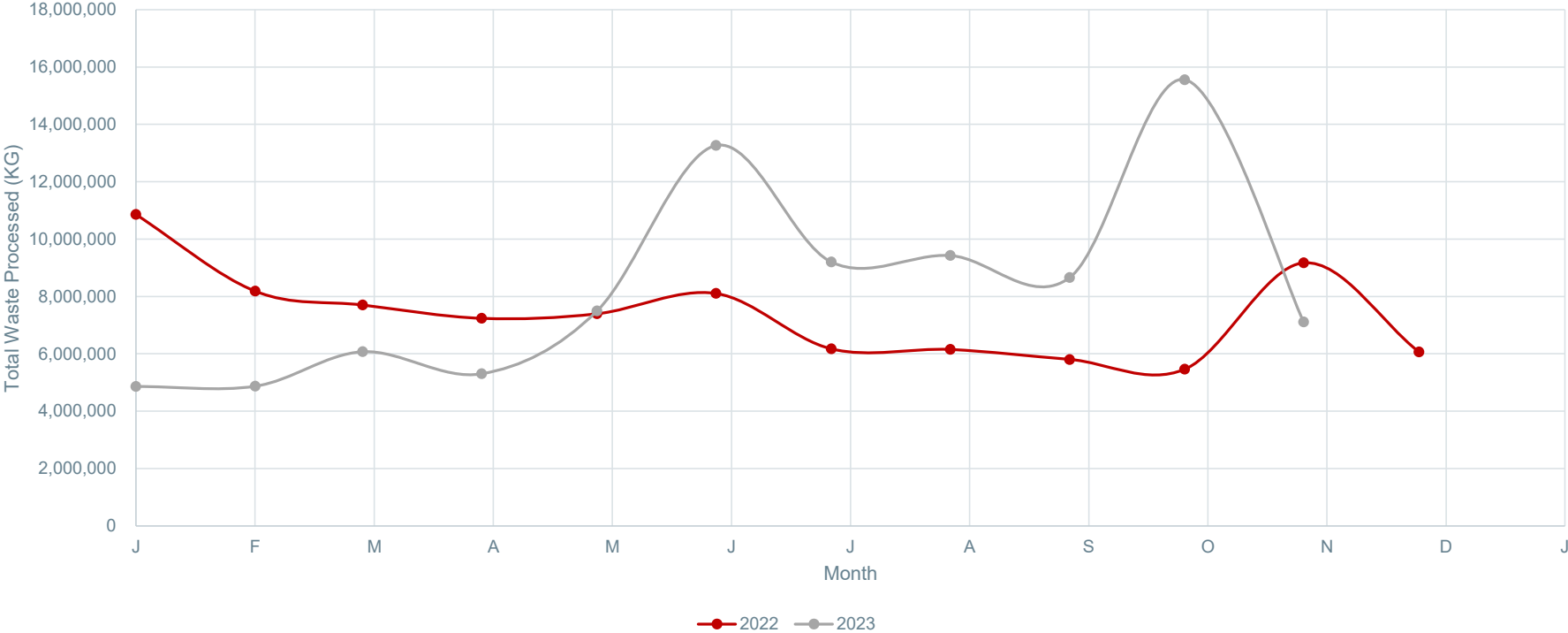
# Landfill

- Continuing to landfill the east side of 20-1
- Interim capping complete on west side of 20-1
- New container storage area built and in use
- Expecting a slow December, but strong year overall for inbound volume



# Landfill – Volumes

Monthly Total of Waste Landfilled





# Thermal Desorber Unit (TDU)

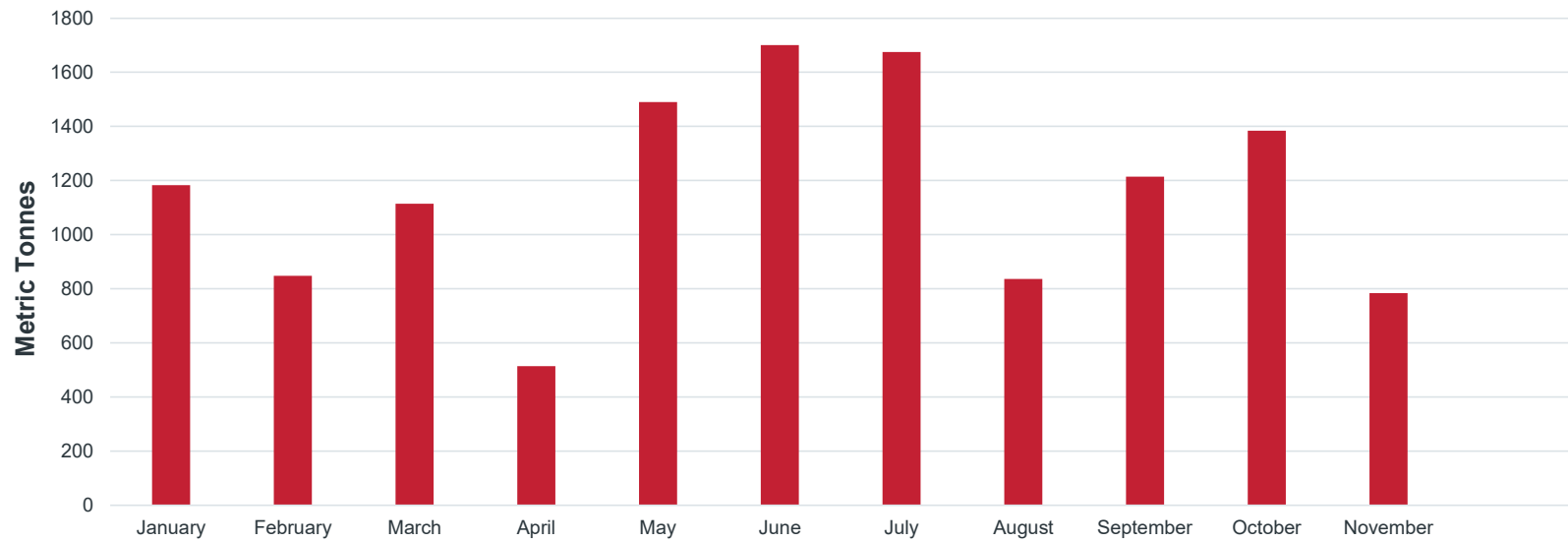
Rod Walsh

# TDU – Waste Volumes

1. Demand remains strong for Thermal Desorption treatment.
2. Continuing to make system improvements to drive throughput while reducing costs.
3. Expect inbound rates to slow through the winter. Use that time to catch up on backlog.
4. Working with Incin group to increase synergies between units.

# TDU – Volumes

2023 TDU Waste Processed Amounts



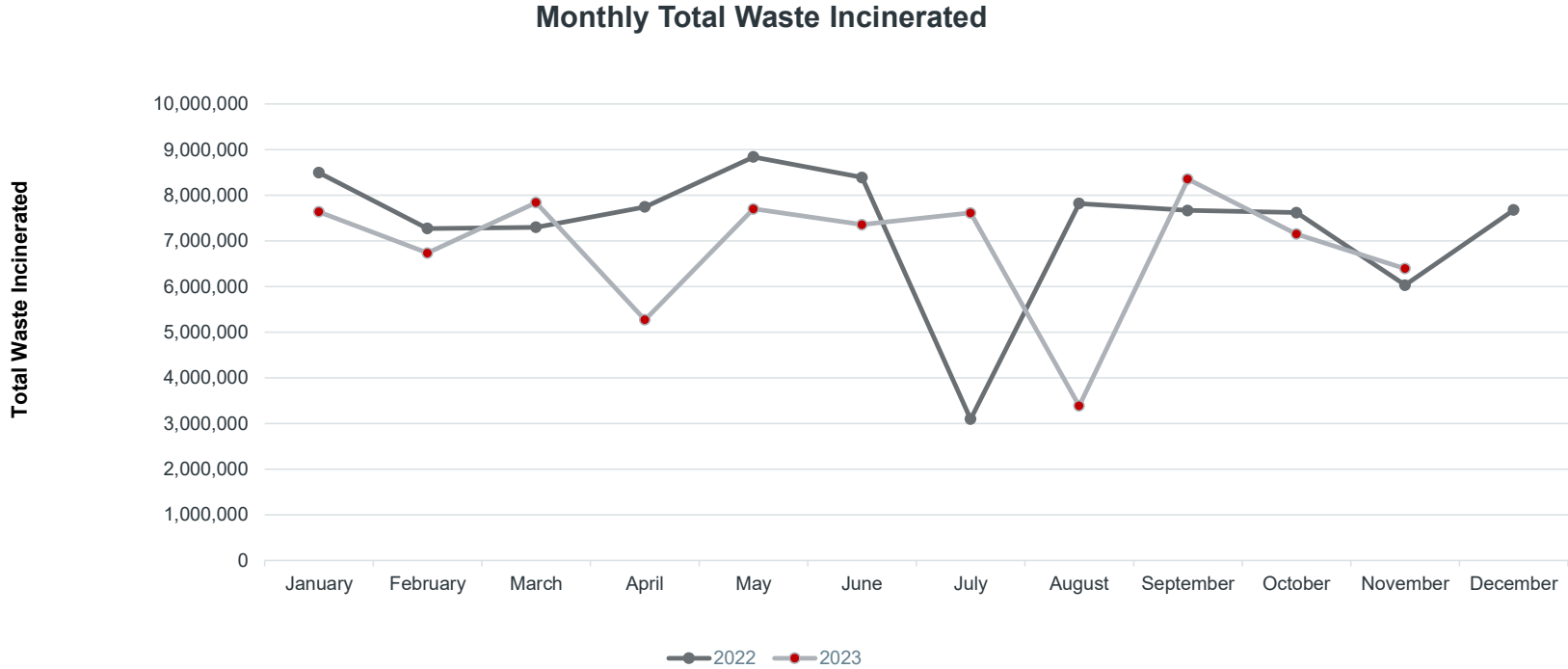


# Incinerator

Dave Baulcomb



# Incineration Performance



- Production remains steady
- Dips due to maintenance months

# Incineration Maintenance

- Stack Flu Gas Analyzer installed RATA test has been completed. We are now controlling the plant with the MCA 10.
- Installed different type of Bag House filter cleaning media on August outage seem to provide better efficiency
- Replacement of the Upper/Lower Quench duct sections on August outage was completed
- Repairs to Stack (welding inside at the 60' elevation) August outage was completed
- Facility Power outage scheduled for on our high voltage equipment was completed
- Replacement of one of the Main Transformers (27.kv-4.16kv) August outage was completed
- Commissioning of the DAF (dissolved air filtration) unit to allow for more destruction of onsite leachate water
- November shutdown was basically a clean out with minor refractory repairs and equipment PM's
- Shutdown schedule completed for 2023 planning has begun for 2024 turnarounds



# Compliance

Mackenzie Costello



# Compliance - Environmental Compliance Approval (ECA) Updates

- The ECA for the incinerator and the leachate pretreatment system was issued under ECA 8295-CGGLZ3 on September 1, 2023
  - Revoking 6547-5G5MSP previously issued for waste/air for the incinerator and 8-1030-94-006 previously issued for incinerator air
  - The leachate pre-treatment system is currently in the process of being commissioned and we are hopeful to get it fully operational by the end December and start reducing the volume of leachate stored on-site
- The consolidated ECA of the Landfill, TDU, Incinerator and Household Hazardous Waste (HHW) was issued under ECA A031813 on November 7, 2023
  - Revoking A031831 previously issued for the HHW and A031806 for the landfill
  - Previously each ECA had many notices making them convoluted and hard to follow. The consolidation makes the requirements more clear and comprehensible for the site and the MECP.

# Compliance – Monitoring Programs

## Stack Testing – 2023

- Required to complete three mercury tests per year
- Stand-alone mercury tests were completed on March 7<sup>th</sup> and June 27<sup>th</sup>-28<sup>th</sup>. For each test the results indicated the site was in compliance an average result of 1.00 and 6.19 ug/Rm<sup>3</sup> respectively.
- The third test was completed during the week of November 13<sup>th</sup> with the annual stack test and we are still waiting on results.

## Stack Testing - 2024

- Historically the annual stack test is scheduled for the end of the year. However, the facility is required to perform a stack test while the leachate pre-treatment system is in operation and by March 1, 2024 and so the annual stack test will be completed in earlier in 2024.
- Our consultant also has concerns with the safety of performing the test during the winter months.
- Clean Harbors has communicated to the MECP that they may not be able to perform the test by March 1, 2024 pending the weather conditions and has requested this date be extended to April 30, 2024. MECP has approved the extension.

## Ambient Air Monitoring

- Worked with the MECP to re-locate the south ambient air monitoring station from the Serv-a-yard property to the west perimeter berm.
- An update air monitoring program was submitted to the MECP for approval which includes year-round monitoring. The facility will implement the new monitoring program once it has been approved.
- Transitioning to year-round monitoring can add additional health & safety concerns in the winter months.
- Clean harbors installed elevated platforms and permanent underground electrical for each monitoring station to help alleviate concerns.



New Ambient Air Platforms

# Compliance – Monitoring Programs

## Groundwater Monitoring

- Groundwater sampling is completed twice per year. First sampling event was completed during the week of May 29<sup>th</sup> and the second was completed the week of November 6<sup>th</sup>.
- We invested in our groundwater monitoring network this year and had drillers come to site in May, July and December to complete approximately 18 well repairs, 3 well decommissioning's and 1 full monitoring well re-installation. The status of each well will be updated within the 2023 Groundwater Monitoring Report.

## Surface Water

- Large rain events during the incinerator shutdown in April and August resulted in flooding of the site.
- For both events, Clean Harbors requested to the MECP to discharge the sampled areas of the site that are not typically included within the Industrial Sewage permit.
- Sampled water was transferred into the on-site surface water pond, treated it through the on-site Surface Water Treatment Plant and then discharged off-site into the municipal drainage ditch on the east side of Telfer Road.
- Additional sampling was completed 3x per week to ensure all water quality being discharged was within the permitted limits. All sample results will be included within the 2023 Surface Water Monitoring Report.
- The first emergency discharge event was from April 20<sup>th</sup> - May 12<sup>th</sup> and the second event was from August 25<sup>th</sup> – September 27<sup>th</sup>
- In 2024, Clean Harbors will be constructing an additional process water storage pond to utilize for water storage during incinerator shutdowns and/or large rain events.



# WISHING YOU A SAFE HOLIDAY SEASON

Keep an eye out for an email in January to schedule the CLAC meetings for 2024



# 40 YEARS



PEOPLE AND TECHNOLOGY CREATING A SAFER, CLEANER ENVIRONMENT

