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# **APPENDIX E**

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Community Liaison & Advisory Committee Meeting Minutes



**COMMUNITY LIAISON & ADVISORY COMMITTEE  
MEETING MINUTES**

**March 6, 2018**

**Lambton Facility Board Room**

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**Attendees:**

<i>Brian Murphy</i>	<i>Neighbour</i>
<i>Bill Allingham</i>	<i>Neighbour</i>
<i>Dave Robinson</i>	<i>Neighbour</i>
<i>Jim Elliott</i>	<i>Neighbour</i>
<i>Barry White</i>	<i>Neighbour</i>
<i>Paul Vandersteen</i>	<i>Neighbour</i>
<i>Erica Carabott</i>	<i>Clean Harbors, Facility Compliance Manager</i>
<i>Jim Brown</i>	<i>Clean Harbors, General Manager, Incinerator</i>
<i>Devon Jamieson</i>	<i>Clean Harbors, Facility Administrator (Secretary)</i>
<i>John McDonald</i>	<i>Clean Harbors, General Manager, Landfill (Chair of meeting)</i>
<i>Tracy Kingston</i>	<i>St. Clair Township Councillor</i>
<i>Peter Gilliland</i>	<i>St. Clair Township Deputy Mayor</i>

**Regrets:**

<i>Mike Parker</i>	<i>Clean Harbors, Director of Compliance (Chair)</i>
<i>Erica Carabott</i>	<i>Clean Harbors, Facility Compliance Manager (Chair of meeting)</i>
<i>Don Hayes</i>	<i>Ministry of the Environment, Provincial Officer</i>

**Guests:**

**1. Welcome**

- The meeting was called to order at 5:15 pm.

**2. Minutes from Last meeting**

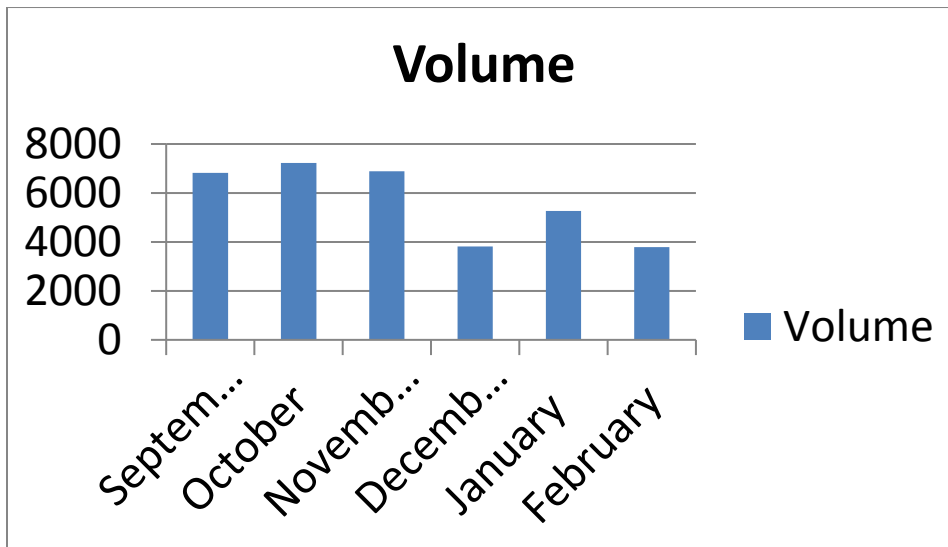
- Minutes from November 2017 meeting were approved by Brian Murphy and Barry White

**3. Facility Updates – (Presentations were made)**

**Landfill: John McDonald**

- Haz waste volumes remain low but steady.
- 1 large project in the works – plant demolition in Pennsylvania – receiving trial loads
- Steady volume from TSDf's in Chambly and MA
- 19-1-2 c Full and awaiting capping
- Construction of 19-1-3

- Segregated into 3 sections
- Haul road constructed in cell to allow better access to southern portion
- LDR weigh belt change
- Haul road improvements
- Interim Cap maintenance



#### Incineration: Jim Brown

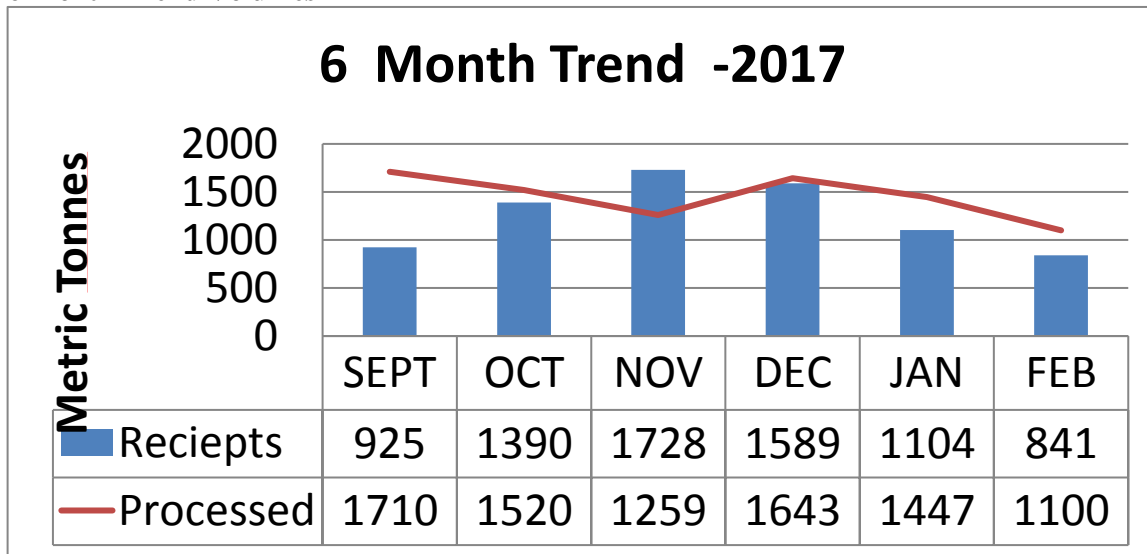
- Incinerator continues to run very efficiently and at good rates.
- Inbound rates were a little slower in January and February, but are picking up again in March.
- Have more high heat value material right now because the cement kilns are doing their shutdown to get ready for spring business
- We had four duct washes since Dec 26, 2017.
- These were all quick washes because of the very cold weather and the amount of water we had to use.
- We are having another quick shutdown on March 7/18 just to get us to the large shutdown at end of March.
- March 24 at 0001hrs we are shutting down for 14 days
- We are replacing the duct that runs from the exit of Spray Dryer to the inlet of the baghouse
- The Quench will also be removed and replaced with a new one.
- Refractory work will consist of re bricking the West wall and the fire box. This is the only place we still use fire brick.

- There will be a couple of smaller area in the primary that will be chipped out and new refractory sprayed in.
- Since the quench is being replaced the old refractory will be chipped out and once it is re-installed, new refractory will be sprayed in there.
- The new duct from Spray Dryer to Baghouse is not lined.
- On March 24, 2018 we are being in a high voltage professionals to do our yearly inspection of all our substations and transformers, this takes about 8 hrs to complete.
- We are upgrading the drop out doors on the bottom of Spray dryer
- We are doing some prep work for the installation of new compressors during the summer shut down.

**Thermal Desorber: John McDonald**

- Volumes have been lower than production for the past 4 months
- 600 MT of Material on site
- Catalyst projects scheduled for April and May
- Annual waste Projects scheduled for mid-April.
- 12 bins in yard for processing of Desorber catalyst with 20 bins on schedule the end of March
- 200 bins of catalyst on schedule for the month of April.
- Construction - Grinding trunnions on Drum – Current Shutdown
- Construction - Feed Hopper replacement – Summer to Fall Shutdown.
- Construction - New open screw design.

**6 Month Trend Volumes**



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**Compliance: John McDonald**

- Final stages for completing the Annual Landfill Report
  - Due March 31, 2018
- Conducted mercury incinerator stack test on January 10, 2018.
  - Limit is 50 ug/RM<sup>3</sup>
  - Test result 2.26 ug/RM<sup>3</sup>
- The MOECC has approved changes to the annual biomonitoring program.
  - Eliminated from the program the Maple Leaf Study

**Transportation: John McDonald**

- No new updates.

**Facility Administration: Devon Jamieson**

- Household Hazardous waste days will be starting back up the last Saturday of March and will continue with the exception of July and August and end in October.
- Possible demolitions for 2018 – Barns/Silo
- Clean Harbors will be occupying our past rental houses now as crew houses.
- Site clean ups will be underway come April. Ground levelling for grass cutting at offsite properties

**Ministry Report: Don Hayes - Absent****Open Discussion / New Business:**

- Thallium waste approval submission, awaiting comment and review.
- Possible Drivers strike – April 7<sup>th</sup> – Will update should a strike arise.
- St Marys gravel – Still awaiting additional proposal. Site actions being taken to manage the pile.
- 5 Meeting requirement will be met for the year.

**Next meeting will be held on Tuesday May 8, 2018 at 5:00pm at Clean Harbors.**

**Please contact Devon Jamieson @ 519-864-3833 or e mail @ [jamieson.devon@cleanharbors.com](mailto:jamieson.devon@cleanharbors.com) with any questions, comments or concerns regarding the minutes prior to the next meeting.**



**COMMUNITY LIAISON & ADVISORY COMMITTEE  
MEETING MINUTES**

**May 8, 2018**

**Lambton Facility Board Room**

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**Attendees:**

*Brian Murphy  
Bill Allingham  
Dave Robinson  
Jim Elliott  
Barry White  
Paul Vandersteen*

*Neighbour  
Neighbour  
Neighbour  
Neighbour  
Neighbour  
Neighbour*

*Erica Carabott  
Jim Brown  
Devon Jamieson  
John McDonald*

*Clean Harbors, Facility Compliance Manager  
Clean Harbors, General Manager, Incinerator  
Clean Harbors, Facility Administrator (Secretary)  
Clean Harbors, General Manager, Landfill (Chair of meeting)*

*Tracy Kingston  
Peter Gilliland*

*St. Clair Township Councillor  
St. Clair Township Deputy Mayor*

**Regrets:**

*Mike Parker  
Erica Carabott  
Don Hayes*

*Clean Harbors, Director of Compliance (Chair)  
Clean Harbors, Facility Compliance Manager (Chair of meeting)  
Ministry of the Environment, Provincial Officer*

**Guests:**

**4. Welcome**

- The meeting was called to order at 5:15 pm.

**5. Minutes from Last meeting**

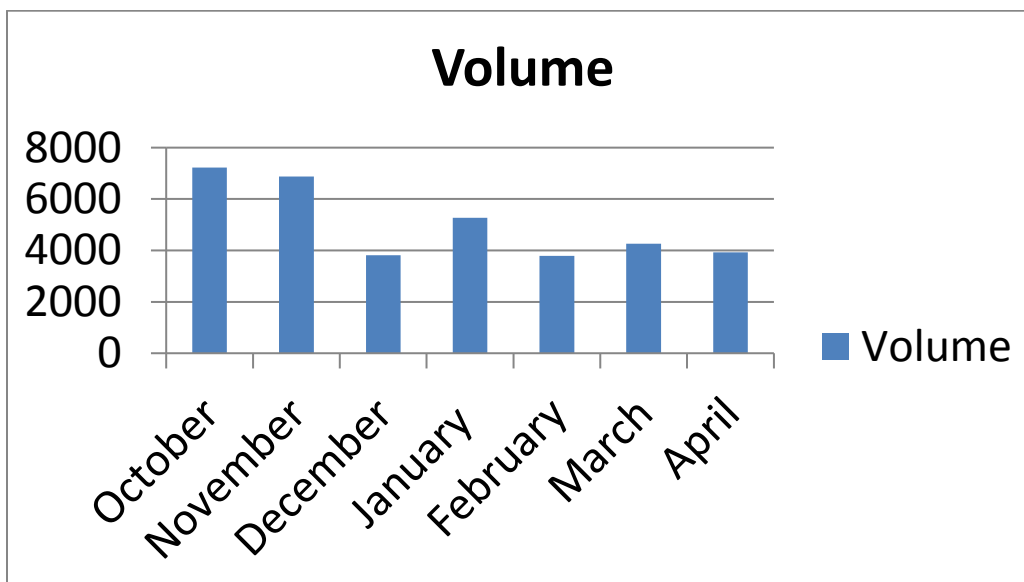
- Minutes from March meeting 2018 will be approved at next meeting.

**6. Facility Updates – (Presentations were made)**

**Landfill: John McDonald**

- ▶ Haz waste volumes remain low but steady.
- ▶ 3 large project in the works
  - Aluminum plant demolition in Kentucky
    - Continuation from 2017 project

- Soil Remediation from Toronto area
- Debris from metal reclamation facility in PA
- Lower volume from TSDf's in Chambly and MA
- ▶ 19-1-2 c interim cap in place
- ▶ 19-1-3 a and b open
  - Haul road improvements
  - Dump plate reinstalled to allow access for large soil project
- ▶ Repairs from erosion to interim cap completed
- ▶ 19-1-3 c construction to begin late June early July
- ▶ 19-2 construction anticipated to start in September/October



#### **Incineration: Jim Brown**

- Incinerator continues to run very efficiently at good rates
- Inbound has jumped right back up again.
- Seems to be a lot of companies doing turn around this spring rather than waiting to the fall.
- We ran through until March 24 then were off waste for 14 days.
- The Quench section was replaced, this is the area that process water is used to cool the temperature down from 1000 C to 500 C
- The quench zone has always emitted a lot of radiant heat which made it uncomfortable to work around, especially during the summer months. So we added insulation to the side, leaving an air

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space between the actual shell and the insulation where we now pull ambient air through to help remove the amount of radiant heat.

- We also replaced the 5 foot duct between the Spray Dryer and the baghouse. This was a large lift for us as the pipe was 42 feet long and we lifted it out in one piece, then placed the new duct in, in one piece.
- We also did an inspection of the primary chamber refractory once we got it all cleaned out.
- This inspection indicated that we were very close to the minimal amount left in about 25% of the primary.
- We start with 2" of insulation, then put 7" of Shurgun over top of the insulation.
- We measure each time we clean out the chamber and the rule of thumb is if you have less than 5" then you replace it ( 2" insulation and 3" of refractory)
- We were hoping that we could go in and do a couple of patches and that would get us through to the end of July but with more than 25% below the 5" of thickness we decided to do the entire chamber.
- This added five days of work we were not expecting and it made the incineration building a very busy place trying to get as much work done simultaneously as we could.
- The weather did co-operate with us for doing the heavy lift and we only had the one Saturday where it was too windy to lift with the crane.
- With the primary completed this shutdown we will be able to reduce the amount of down time for our July shut down. We are scheduling 8 days for it.
- During this shut down we were able to get our high voltage inspected and certified for another year
- We had to do a small repair in the Garage MCC and we have one of the transformers on the incineration side that needs the oil changed out as it is showing contaminates.
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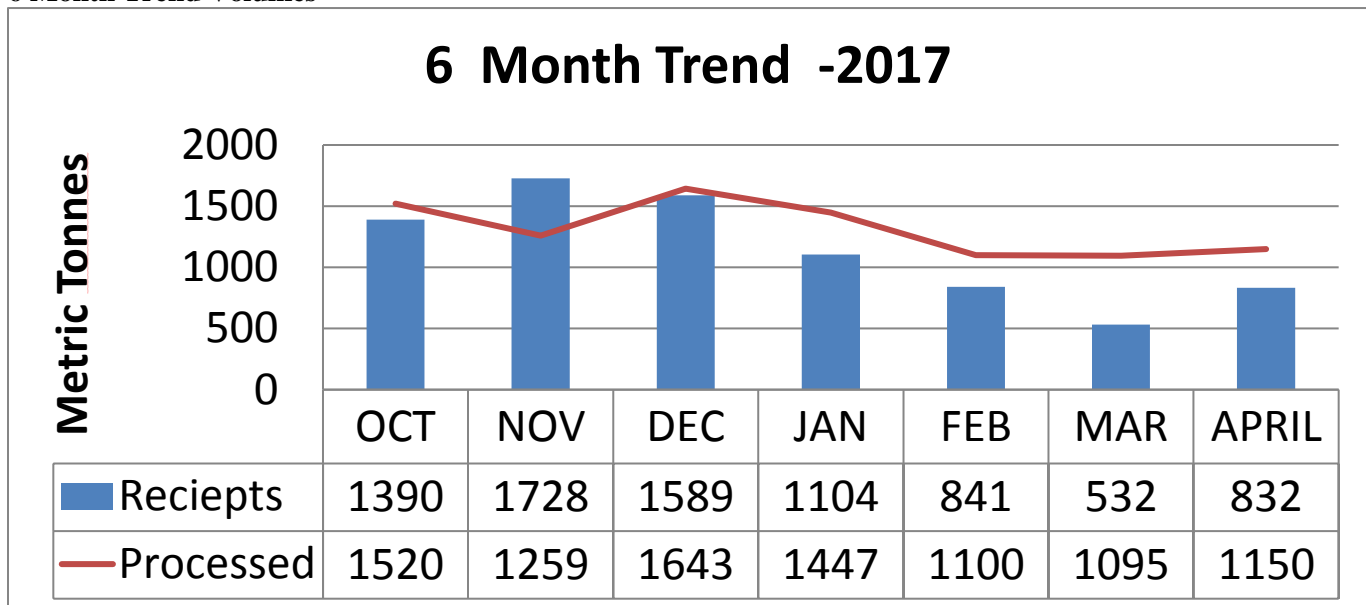
#### **Thermal Desorber: John McDonald**

- Inbound Volumes have been lower than production for the past 4 months
- 150 MT of Material on site
- Catalyst projects scheduled for May and June
- Annual waste Projects scheduled for end of May into June
- Unit was idle for 9 day in April without feed
- Currently no Catalyst bins on site
- Processed 160 bins in April
- Unit capable of processing 12 bins per day when running dual feed system.
- 400 bins on schedule to arrive in June
- Completed the Grinding of the wheels and trunnions on the drums



- Modified flame arrestor at incinerator to a single design
- Added air inductor in vent line to improve air flow to incinerator
- Feed Hopper replacement scheduled for September
- Bid package awarded
- New open screw design

**6 Month Trend Volumes**



**Compliance: Erica Carabott**

- ▶ 2017 Annual Landfill Report has been submitted to MOECC.
  - Contains reports of the groundwater monitoring, surface water monitoring, biomonitoring and air monitoring programs conducted in 2017.
  - Contains information to satisfy the ECA permit condition.
  - A copy can be viewed on the Clean Harbors website.
- ▶ Monitoring programs are underway or getting ready to start.
  - Surface water monitoring program has been ongoing for the last few months.
  - Air monitoring sampling to start in May.
  - Groundwater monitoring program spring event scheduled in June.
- ▶ Mercury incinerator stack test scheduled for week of May 14.
- ▶ GHD conducted Q1 site inspection in March.
- ▶ Q2 site inspection to be conducted in June.

**Transportation: John McDonald**

- No new updates.

**Facility Administration: Devon Jamieson**

- No new updates.

**Ministry Report: Don Hayes - Absent**

**Open Discussion / New Business:**

- Dates for next meeting (August)
- Facility Open House. (September)

**Next meeting will be held on Tuesday August 21, 2018 at 5:00pm at Clean Harbors.**

**Please contact Devon Jamieson @ 519-864-3833 or e mail @ [jamieson.devon@cleanharbors.com](mailto:jamieson.devon@cleanharbors.com) with any questions, comments or concerns regarding the minutes prior to the next meeting.**



**COMMUNITY LIAISON & ADVISORY COMMITTEE  
MEETING MINUTES**

**August 21, 2018**

**Lambton Facility Board Room**

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**Attendees:**

<i>Brian Murphy</i>	<i>Neighbour</i>
<i>Bill Allingham</i>	<i>Neighbour</i>
<i>Dave Robinson</i>	<i>Neighbour</i>
<i>Jim Elliott</i>	<i>Neighbour</i>
<i>Barry White</i>	<i>Neighbour</i>

<i>Erica Carabott</i>	<i>Clean Harbors, Facility Compliance Manager(Chair of meeting)</i>
<i>Jim Brown</i>	<i>Clean Harbors, General Manager, Incinerator</i>
<i>Devon Jamieson</i>	<i>Clean Harbors, Facility Administrator (Secretary)</i>
<i>John McDonald</i>	<i>Clean Harbors, General Manager, Landfill</i>

**Regrets:**

<i>Mike Parker</i>	<i>Clean Harbors, Director of Compliance</i>
<i>Don Hayes</i>	<i>Ministry of the Environment, Provincial Officer</i>
<i>Paul Vandersteen</i>	<i>Neighbour</i>
<i>Tracy Kingston</i>	<i>St. Clair Township Councillor</i>
<i>Peter Gilliland</i>	<i>St. Clair Township Deputy Mayor</i>

**Guests:**

**7. Welcome**

- The meeting was called to order at 5:15 pm.

**8. Minutes from Last meeting**

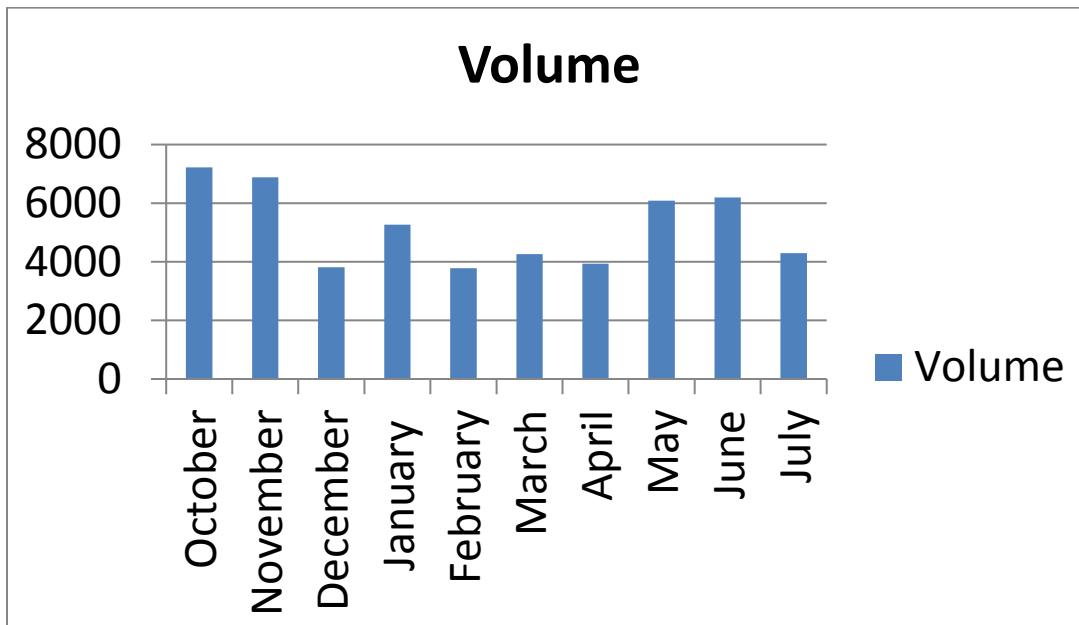
- Minutes from March and May 2018 meeting were approved by Brian Murphy and all were in favour.

**9. Facility Updates – (Presentations were made)**

**Landfill: John McDonald**

- Haz waste volumes continue to be low.
- Developing a recipe for a large capacity waste stream from a metal recycler in PA
- Had 1 moderate soil project from Toronto
- 19-1-3a interim cap in place
- 19-1-3a portion of b and all of c open
- Haul road rerouted for final cell of 19-1

- Dump plate removed – will be installed if the need arises
- Repairs from erosion to interim cap completed
- Equipment upgrades expected in the next 2 months
  - Rebuilding 2006 Cat 325 excavator
  - Transferring in 2014 Cat 336 and D6 Dozer
  - Transferring out Volvo 260C
  - Selling 2007 Cat 330 excavator
- 19-2 construction anticipated to start in September/October
  - Currently in design stage



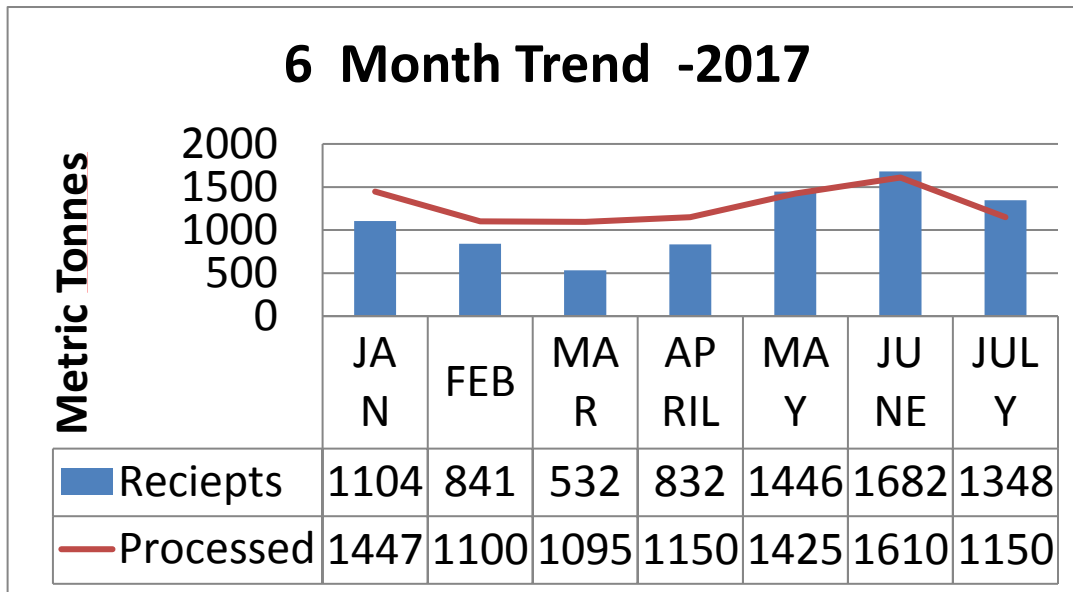
#### **Incineration: Jim Brown**

- Incinerator continues to run very efficiently at good rates
- Inbound has been very steady all summer.
- We have seen more than normal amount of Power outages this summer
- Hydro has been made aware of each outage
- Hydro stated they are up grading older equipment
- We ran through until July 20 then were off waste for 7 days.
- The refractory in the incinerator appears to be standing up better that usual.
- We tried a different brick in the actual fire box which seemed to take the higher temperature and turbulence better
- There was a section at the top of incinerator that was getting thin so we did remove it and resprayed in new refractory

- The hydraulic doors on the bottom of the spray dryer were replaced and reinforced more to maintain a better seal
- The inlet duct to the Induced Draft (ID) fan was also replaced. This section has been in place since 1997
- We are now preparing for the fall stack testing scheduled in September
- Our next shutdown will be tentatively booked for the first week in November.
- We would like to run as far into November as we can so the shutdown after that will not occur in January or February of 2019.

**Thermal Desorber: John McDonald**

- Inbound Volumes have been steady but below expectation
- 1500 MT of Material on site
- Catalyst projects strong through June and July. 30 day turnaround on Bins
- 3 Waste Projects currently underway
- Unit has been running well.



- Currently 40 Catalyst bins on site
- Processed 485 bins in June and July
- Unit capable of processing 12 bins per day when running dual feed system.
- 120 bins scheduled for August/ Sept
- Replace combustion air fan
- Modified flights in drum to reduce carryover
- Improved water flow to post boxes to reduce dust
- Feed Hopper replacement scheduled for September

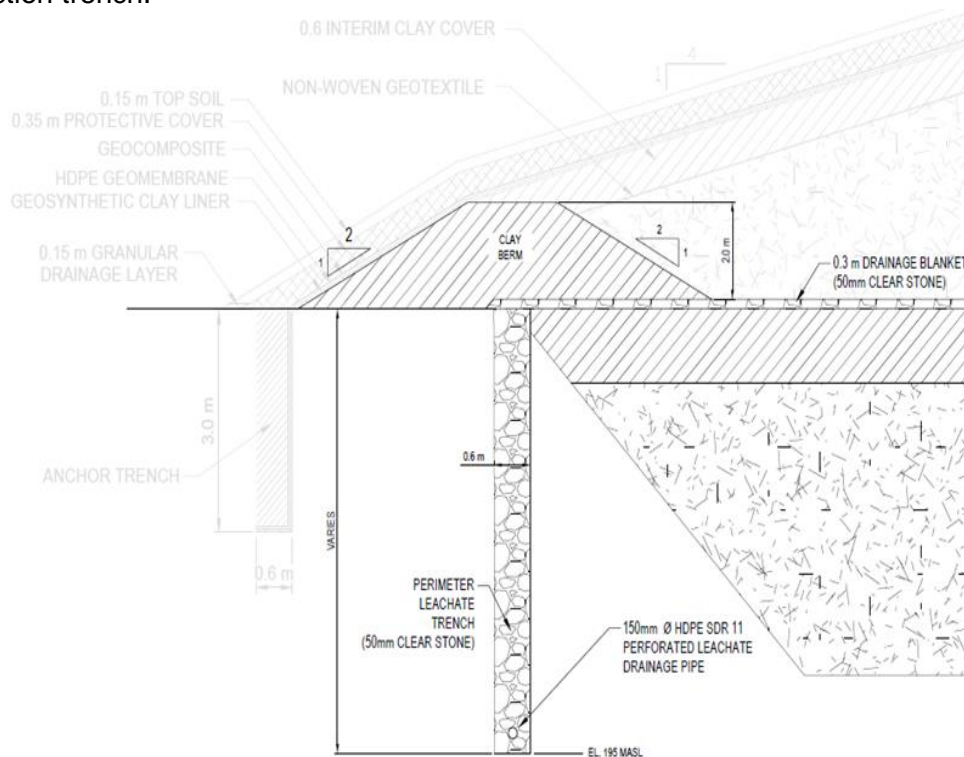
### Compliance: Erica Carabott

- ▶ Update on the Application for Variance to Landfill ECA Approval A031806.
  - Design Improvements.
  - Ability to accept & dispose of waste compressed gases & flammable solids.
  - Pharmaceutical waste disposal.
  - Hydro-vac management & disposal.
  - Storm water management design improvements.
  - Acceptance of NORM waste.

Submitted to MOE in March 2018.

### Design Improvement – Hydraulic Control Layer (drainage layer)

- ▶ Hydraulic control layer (the drainage/ stone layer) is the base layer in the new landfill that facilitates the movement of leachate to the leachate collection trench.
- ▶ **Currently:**
  - 0.3m (~1 ft) of 50mm (~ 2inch) clear stone.
  - Underlay & overlay for stone: geotextile.
- ▶ **Proposed:**
  - Decrease the thickness of the clear stone from 0.3m to 0.15m.
- ▶ **Rationale:**
  - Thickness of the stone layer does not impact the amount of leachate transferred to the leachate collection trench.



### Design Improvement – Hydraulic Connection Trench

- ▶ **Currently:**
  - Hydraulic connection trench & boreholes connect the old landfill with the new landfill.

- Hydraulic connections are made with boreholes (spaced evenly) between the old landfill and new landfill.

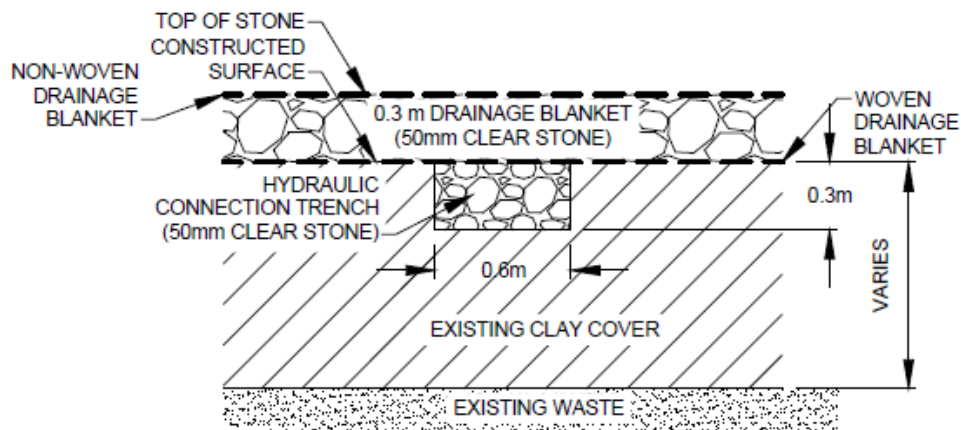
▶ **Proposed:**

- Removal of the hydraulic connection trenches and the boreholes.

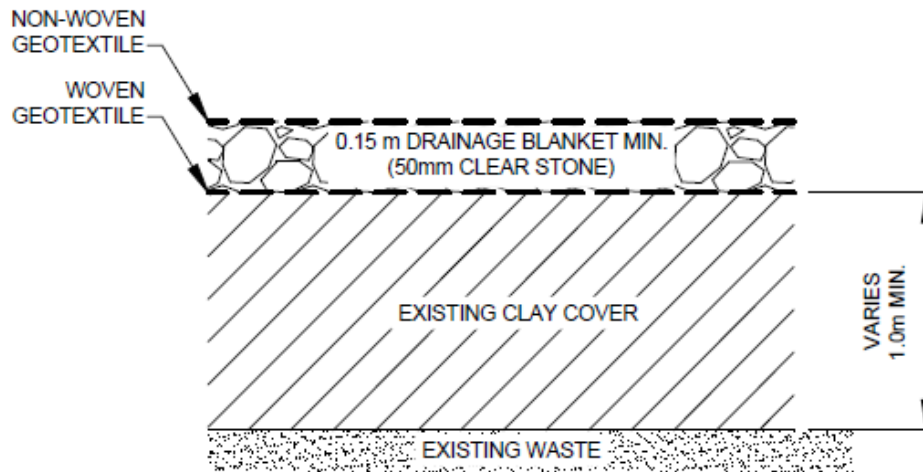
▶ **Rationale:**

- Trying to avoid intermingling the new (“cleaner”) leachate with the old leachate.
- The leachate perimeter trench extends into the old landfill. Leachate from the old landfill can move to the perimeter trench.

**Existing:**



**Proposed:**



**Design Improvement – Interim Cover**

▶ **Currently:**

- Interim cover of 0.6m (~2 ft) clay layer with geotextile underlying the clay.
- It forms part of the final cover of the landfill.

▶ **Proposed:**

- Remove the geotextile liner.

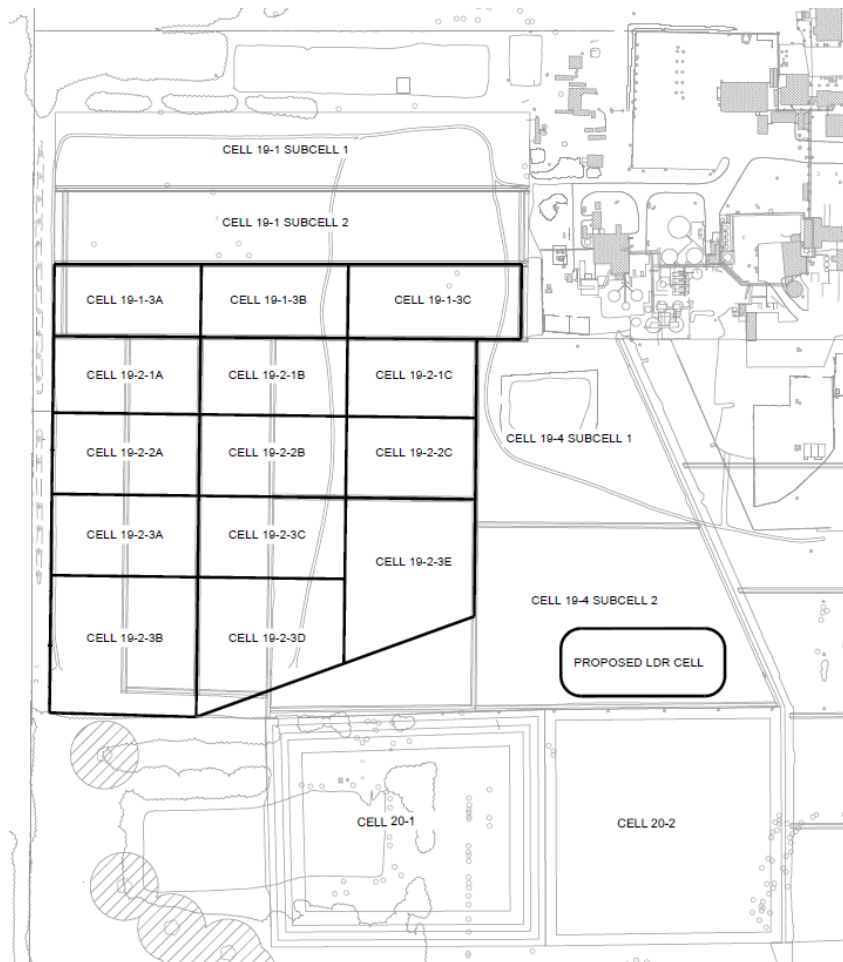
- Replace the QA/QC testing requirements with post-installation testing.
- D&O Report provides the QA/QC testing for the construction of the interim cover.

▶ **Rationale:**

- The current cover testing is based on the old landfill (in-ground landfill). The cover was thick and had to be of a certain specification since it was flat and water could more easily infiltrate the cap.
- The proposed cover is based on the covers typically used at vertical landfills (e.g. Clean Harbors Ryley Landfill; municipal landfills) – the slope helps surface water to naturally drain away and not infiltrate into the cell.
- Testing would be done by taking core clay samples and testing that the compaction has been achieved. If not achieved, the top 0.45 m of clay would be removed, replaced, and re-tested.

### Design Improvement – Cell Development & Sequencing

▶ **Proposed:**



▶ **Rationale:**

- Flexibility to develop cells to manage surface water in the cells.
- To minimize leachate generation.



- Ability to transport waste to the cells via access roads.
- Flexibility to open cell size depending on anticipated receipt volumes.

### Accept Waste Compressed - Gases

#### ▶ Currently:

- Cannot accept waste compressed gases (Waste Class Code 331).

#### ▶ Proposed:

- Amend permit to allow receipt & transfer of 331.
- This would allow us to act as a transfer station for cylinders, and service customers in the area.
- The cylinders would not be processed at the site, only stored.

### Accept Waste Compressed – Solids

#### ▶ Currently:

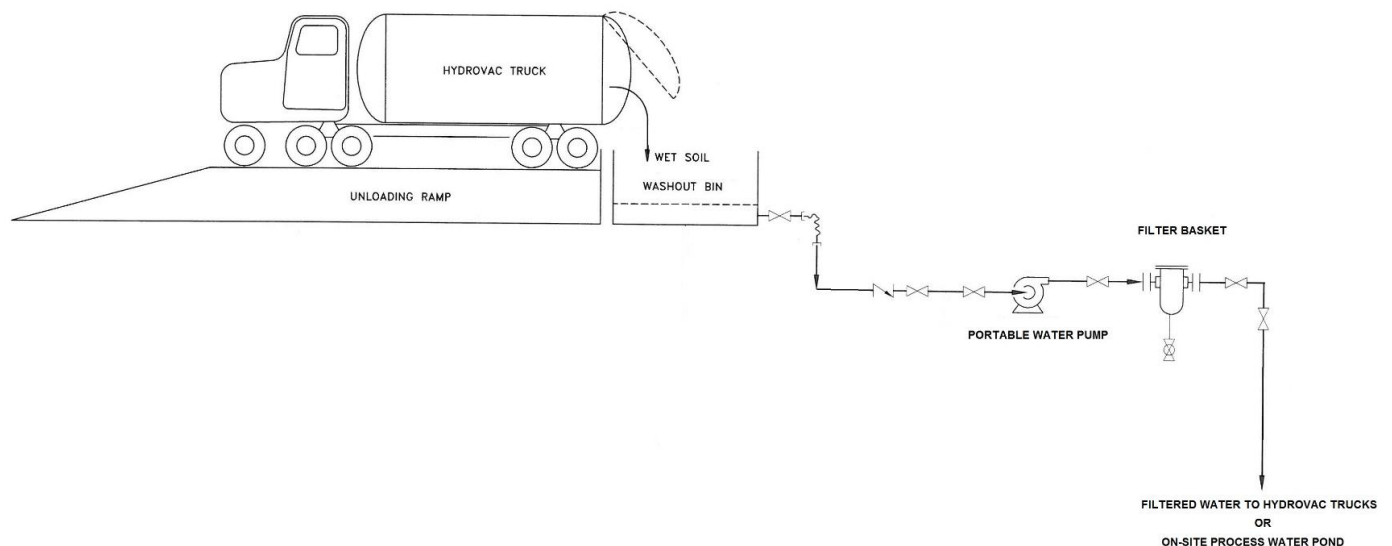
- Landfill cannot accept flammable waste without MOE District Manager approval.

#### ▶ Proposed:

- Approve a process for de-listing of flammable solids prior to landfilling.
- De-list by consolidating/ blending flammable waste with non-flammable post-treated waste or non-hazardous waste to remove the flammable characteristic. Take representative sample and test for flammability, and if not flammable, landfill.

### Hydro-Vac Waste

- Hydro-vac excavation is a common process used in construction to remove excess soils where traditional excavation would be challenging (e.g. around utility poles).
- During hydro-vac process water is added to the soil to create a slurry that is easily extractable using a vacuum truck.



### Pharmaceutical Waste Disposal

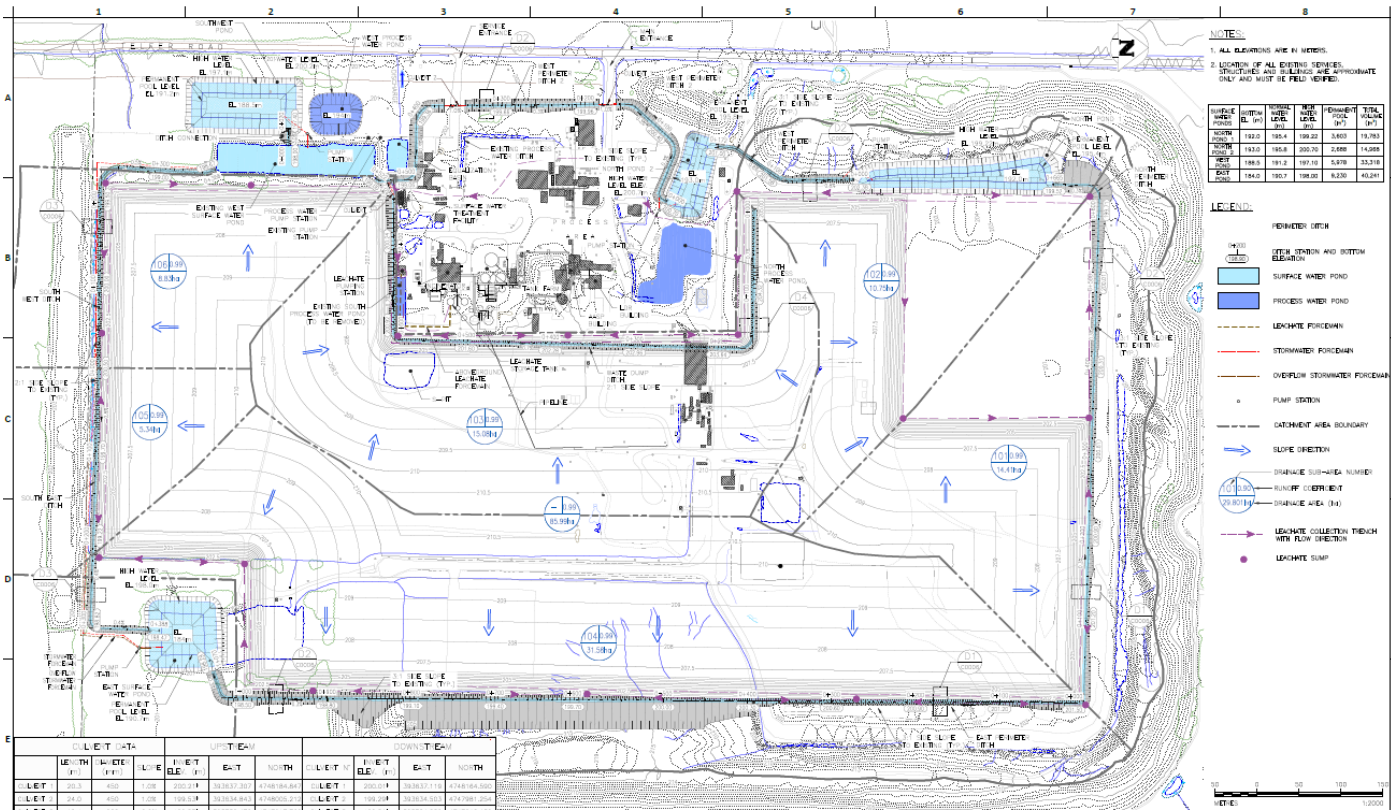
► **Currently:**

- Approved to receive pharmaceutical waste – included regular pharmaceuticals, and controlled pharmaceuticals that have been inactivated.
- Health Canada regulates the disposal of controlled pharmaceuticals.

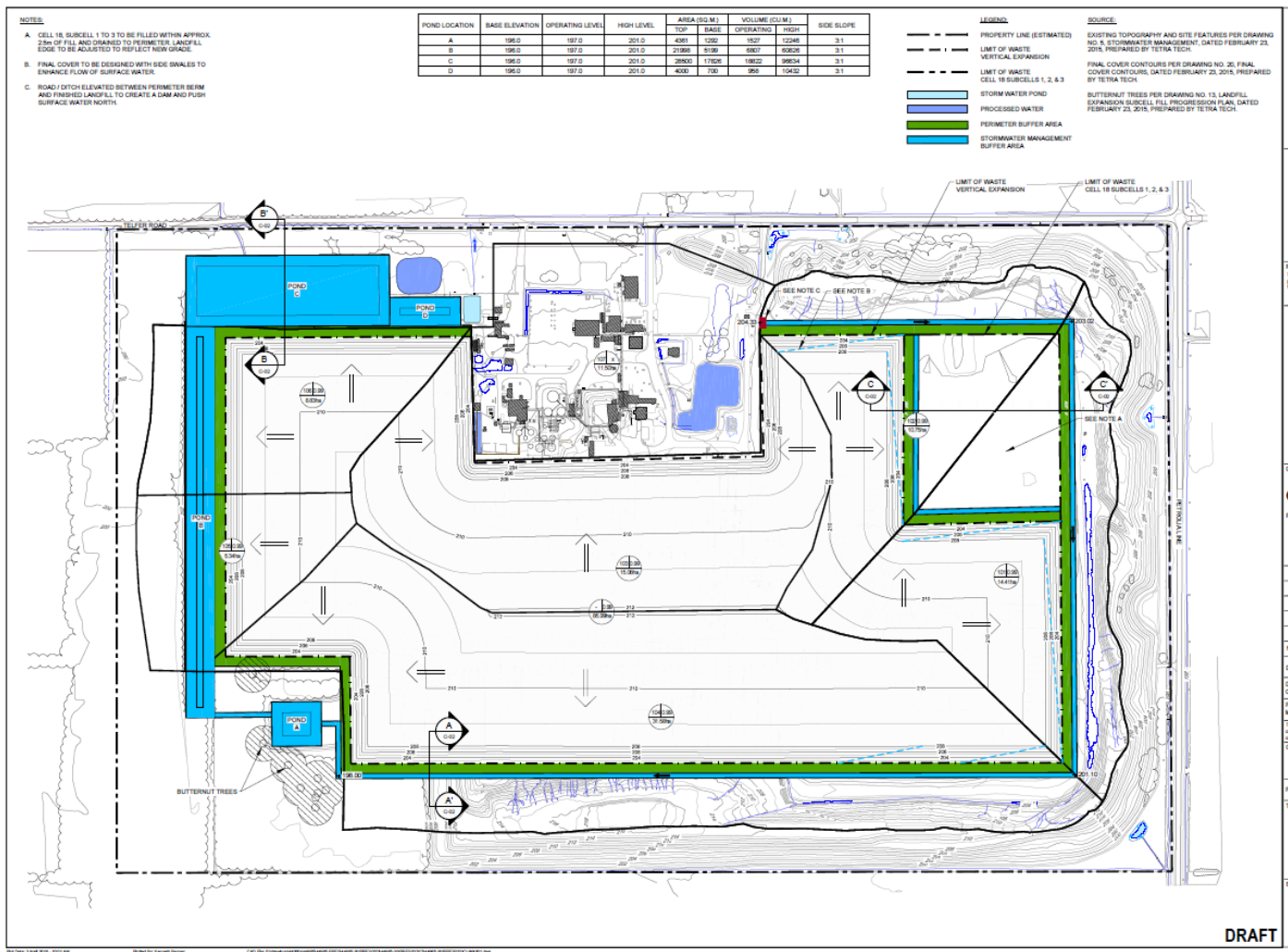
► **Proposed:**

- Accept controlled substances and inactivated them on-site in accordance with Health Canada requirements in a secure building.

### Storm Water Management - Current



## Storm Water Management - Proposed

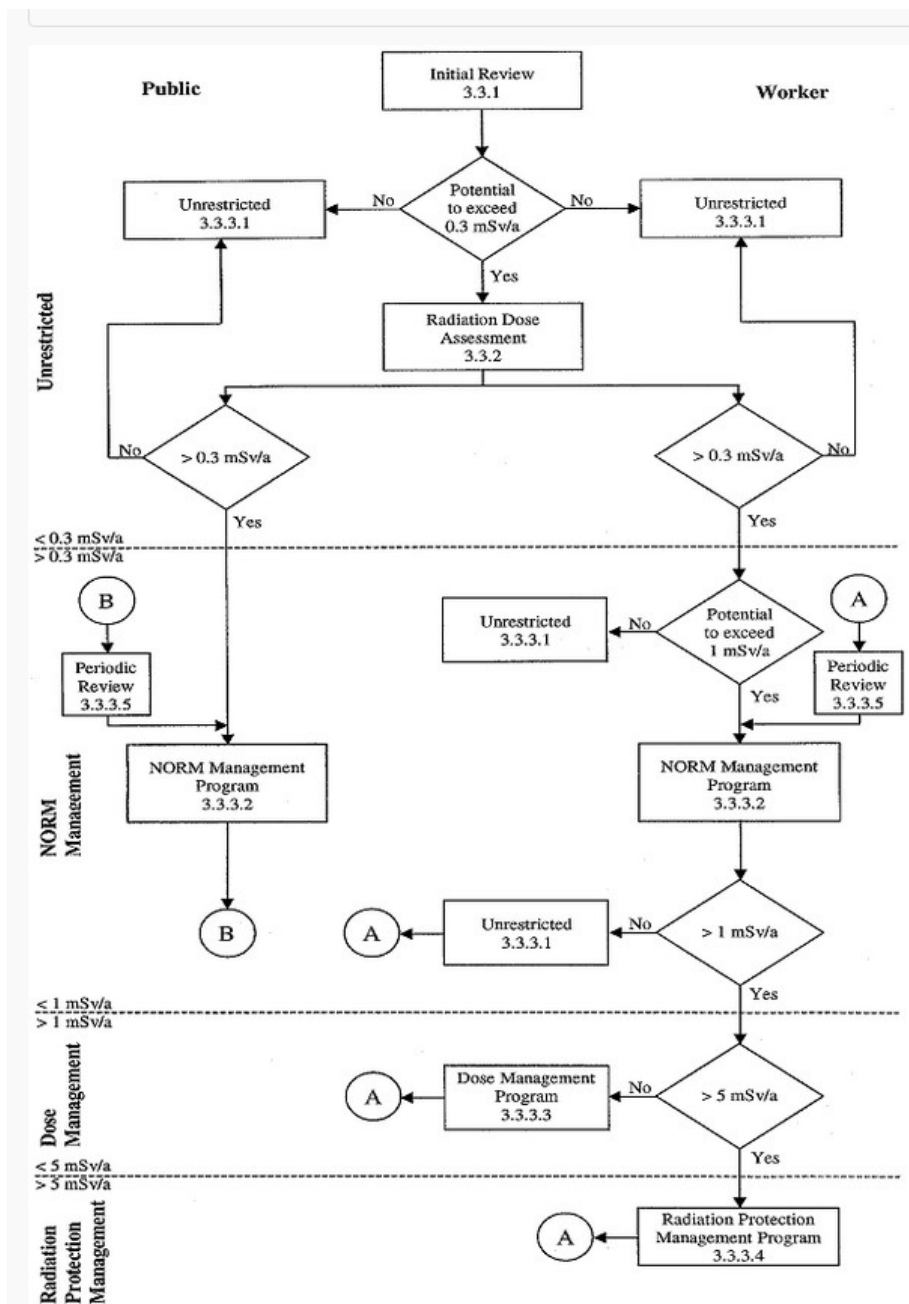


### NORM Waste

- The current system relies on pumps to move surface water around the site.
- The proposed system would move water around the site more freely.
- Update acceptance criteria to include NORM waste.
- NORM (Naturally Occurring Radioactive Material) consist of materials, usually industrial wastes or by-products with radioactive elements found in the environment at background radiation level.
- Natural radioactive elements are present in very low concentrations in Earth's crust, and are brought to the surface through human activities such as oil & gas exploration or mining, and through natural processes like through dissolution in ground water.
- **Common examples of NORM waste:**
  - Phosphate industry wastes including phosphogypsum and slag.
  - Phosphate fertilizers that are commonly used.
  - Coal industry wastes including flyash, bottom ash and slag.

- Oil and gas industry waste including sludges.
- Water treatment plant wastes including sludges and resin filtration systems.
- Metal mining and processing industry wastes.
- Large volume industries including copper and iron.
- **The NORM material Clean Harbors is looking at accepting would be at a level that is defined as unrestricted NORM.**
  - No testing required on employees due to very low levels.

**Norm Classification Flowchart (Gov. of Canada):**



**Facility Administration: Devon Jamieson**

- ▶ Open House – Wednesday September 26, 2018.

**Ministry Report: Don Hayes - Absent****Open Discussion / New Business:**

- A letter will follow these minutes in regards to the notification of application for variance. Additional comments can be directed to Erica Carabott with Clean Harbors or Jim Yardley with GHD.
- Using our Open House and a meeting in November to meet the meeting requirements for the year.

**Next meeting will be held on Tuesday November 13, 2018 at 5:00pm at Clean Harbors.**

**Please contact Devon Jamieson @ 519-864-3833 or e mail @ [jamieson.devon@cleanharbors.com](mailto:jamieson.devon@cleanharbors.com) with any questions, comments or concerns regarding the minutes prior to the next meeting.**