

Highland Creek Treatment Plant (HCTP) Neighbourhood Liaison Committee (NLC)

Meeting Minutes Summary

Meeting # 33
Wednesday, May 8, 2019, 7:15 pm - 9:15 pm
Port Union Community Recreation Centre
5450 Lawrence Avenue East

Agenda and Discussion

The discussion captured at the meeting is summarized below. Answers were provided by City staff/representatives in attendance.

1. Welcome and Introductions (7:03 pm)

- Frank Moir (Co-Chair and Resident) called meeting into order

2. Review of Agenda, Minutes Summary & Action Items (7:20 pm)

- The meeting agenda was reviewed and approved by the group.
 - Barbara McElgunn reminded the others that under “Plant Updates” particulates should be added
- Minutes Summary from November 14, 2018 meeting were reviewed and approved.
- Action items from the November 14, 2018 meeting were reviewed and approved:

	<i>Action Item</i>	<i>Responsibility</i>	<i>Status and/or follow-up</i>
1.	Look into potential tour of Highland Creek and Durham Region plant for the committee.	Martin Shigeishi	<p>Completed but ongoing. Martin Shigeishi noted that it is feasible to visit the Duffins Creek Water Pollution Control Plant in Durham Region in late May to early June, on Tuesday, Wednesday, or Thursday for a 2 hour tour of their FBI facility. The group indicated that a Thursday in June during the late morning is preferable.</p> <p>In regards to a tour of the Highland Creek Treatment Plant, Martin Shigeishi indicated that around late June can also be considered once the new Admin building is finished. Martin</p>

			Shigeishi indicated that it can be deferred until later on, and will be left as an open item.
--	--	--	---

3. Plant Updates

Plant Performance & Operations

Martin Shigeishi provided a brief summary of the Plant Performance and Operations:

- **Odour Complaints:**
 - In 2018, there was one odour complaint; no complaints received so far in 2019.

- **Sewage Bypass Events:**
 - In 2018 there were no bypass events; no bypasses so far in 2019.

- **Power Interruptions & Impact on Operations:**
 - Power interruptions that impact the incineration process can cause unscrubbed flue gas to be released through the stub stacks rather than up the main stack.
 - In 2018 there was a total of 18 of these events; 12 were due to power interruptions and 6 were related to other reasons.
 - In 2019, there have been 4 events so far. Each have lasted 3 minutes, 1 minute, 2 minutes and 1 minute.
 - Q #1: Is it because the auxiliary power kicks in?
 - No, the power interruptions are typically of short duration. When power is restored, the stub stack cap closes.
 - Q #2: Is there any time in recent memory that there has been a long shutdown?
 - Martin Shigeishi indicates that there is nothing recent of a notable duration. They have all been within the order of minutes.
 - Q #3: If it was longer you would you just shut down?
 - Martin Shigeishi indicates that the biosolids feed to the incinerator stops automatically, but there are still biosolids burning in the furnace. In these events, we restart when the power is restored and then return to normal operations. Martin Shigeishi indicates that they follow up with Toronto Hydro when interruptions that impact their processes occur to investigate from their side for any causes.

- **Ash Lagoon Cleaning:**
 - Reported that in 2018, cleaning was completed in the July/August timeframe where both lagoons were cleaned with a total of about 2900 wet tonnes removed.
 - For 2019, it is the same work plan, and work will begin within the July/August timeframe. The specific schedule will not be coordinated until next month (June) when the heavy equipment will be on site.
 - Martin Shigeishi indicates that trucks will be washed down before they

leave the site, and drivers will be reminded to respect the speed limits, and other concerns that were previously noted.

- Q #1: What route do they go on?
 - Martin Shigeishi indicates that typically drivers are asked to alternate between the 2 routes identified in the Biosolids EA straight-up Beechgrove Drive and Coronation Drive, Manse to Morningside Avenue.

- **Biosolids Haulage**

- None.

- **Stack Emissions Testing**

- The 2018 results were reported at the last meeting. 2019 testing will occur in Q3 of 2019. There are no differences in the testing program, and preliminary results will be presented on at the next meeting.

Q #1: On the stack testing, you were mentioning that the particulates weren't included last time, will you include them this time?

- Anthony Pigaidoulis indicated that they were included, and that the question was about PM10 and PM 2.5. The regulated limit is for Total Particulate Matter, which is the sum of PM10 and PM 2.5. These parameters were in the report.

Q #2: When they are aggregated, you don't really know the limit.

- Anthony Pigaidoulis indicated that the limit for the modelling is total particulates, and there is a division between the two.

Q #3: Are they measured separately?

- Anthony Pigaidoulis indicated that they are.

Resident Barbara McElgunn expressed a concern in relation to the final report of the Human Health Risk Assessment report from the EA in 2015 and the background concentrations of PM10, PM 2.5 and Chromium 6 that had exceeded the limit. Barbara McElgunn stated that from the residents' standpoint, there needs to be a study to find where these are coming from. She indicated that in the report it states that many of the standards are outdated, and that across all jurisdictions, they should be updated. Anthony Pigaidoulis indicated that what is emitted from the plant point source is within the standards of allowable limits, with the model limit being based on emission rates. Frank Moir indicated that he would like someone to take a look at the report. Mae Lee asked Barbara McElgunn to send her the questions so that she can get the appropriate staff to answer.

4. Capital Projects

Martin Shigeishi provided a brief update on the major capital projects at the plant:

Administration Building and Process Control Building

- Phase one included the new offices and was completed and moved into early last year.

- The rest of the building which includes the meeting rooms, locker rooms, archive room, training room, and control room are supposed to be done soon and are hoping to be moved in at the end of the month or within the June timeframe.
- The project also includes an additional parking lot on the corner of Beechgrove Drive, at the final turn before the plant. This parking will be constructed primarily for the contractors. It is supposed to be started soon and hopefully finished by Q3 of this year.

Cleaning and Rehab of Digesters and Waste Gas Burner Upgrades

- Currently, insulation work is ongoing for the roofs of the digester tanks.
- There are new waste gas burners which had some welds that didn't pass the inspection and testing process. Those have to be addressed before start up can be considered.
- Repairs are underway and they are close to being completed. Some of the site acceptance testing has started or is expected to start, and the plant is looking to commission the first digester this summer.
- The completion for the entire project is at the end of December 2019.

Firm Capacity Upgrades & Liquid Train Rehabilitation

- Includes 3 main components:
- The **Process Roadmap** which is the planning component is to consider what the future needs of the plant are. It is behind schedule, but wrapping up soon. Technical memos are being finalized. The Process Roadmap will feed into the capital program so that projects can be included for the future.
- Next component is the **Contract 1** project which is to do some refurbishment and upgrades on the existing plant so that it is in good shape for when the new phase gets constructed. It went out to tender at the end of December and the closing date is May 14, 2019. Once it closes, there is the contract awarding process, so a contractor will be on site in Q3 of this year.
- The third component is the **Contract 2** project which is the new phase of the plant. Pre-design work has started, and the detailed design will start next year. It will be a few years beyond that when the construction will take place. There will be some overlap of Contract 1 and the start of Contract 2 which will likely start in 2023.
- Q #1: Is that a quarter of the capacity of the plant?
 - Martin Shigeishi indicates that it is a bit more. The overall rated capacity of the plant will remain the same as it is today, but the new module would have a higher percentage of the overall capacity and other areas will be re-rated to a lower capacity. When the new phase goes into service, it will allow us to do more refurbishment on the existing areas to improve firm capacity.
- Q #2: If you end up with 125% capacity in theory, would you keep it all active?
 - Martin Shigeishi indicated no and that part of the project is to do a conceptual study of the oldest part of the plant and what the future fate of it is.

- Q #3: What is the normal flow rate on an average basis compared to 100%?
 - There average flow was 171 MLD last year and the rated capacity is 219.
- Q #4: What is the capacity of the new Fluidized Bed Incinerators?
 - Each unit is 60 dry tonnes per day.
- Martin Shigeishi mentioned that it has been emphasized to the consultant that any haulage plans need to be mindful of truck traffic and how it integrates with the community. There will be a period of time where truck traffic is high. This will most likely be in 2023 and is not something that is avoidable.

New Fluidized Bed Incinerator Project

- The Request For Proposal was released back in November 2018 and closed on March 1st 2019.
- There were 2 proponents that responded. These were evaluated and the Staff Report is going forward on May 23 for the pre-purchase award of the fluidized bed units themselves and the ancillary equipment.
- In the meantime, Jacobs is continuing with their design work and are 50% done on the pre-design report.
- Q #1: Were the 2 bids satisfactory?
 - Martin Shigeishi indicated that he cannot comment about the proposals.
- Q #2: It would go to committee then council for approval?
 - Martin Shigeishi said Yes. (Under normal procedure, action items from Standing Committee moves to City Council. **Post Meeting Note:** from Chair Moir – that this Biosolids MP Implementation item of \$40 mil + was granted authority at the May 23, 2019 Infrastructure & Environment Committee meeting under Purchasing Bylaw Section 195-8.4A for the Chief Engineer to directly negotiate and execute the purchasing agreement.)
- Q #3: The timing was indicating that it would be a year or so for the design to tender for the actual construction. So, is that in the ball park?
 - Martin Shigeishi indicated that they are still on pace for that, and it is then about a five year construction job. No changes to scheduling so far.

Headworks & Odour Control (Presentation by AECOM)

- The current status is that the project is commissioned, and substantial completion will be issued within the next couple of weeks.
- The influent chamber where the lane restriction currently is, is still incomplete and has been de-scoped from this project. The intent is that it is going to be done under a separate construction tender and will take a year to complete.
- Q: The main sewer needs to be diverted to the new work?
 - Martin Shigeishi said yes. The intent is that the Beechgrove and Morningside sewers will both come through the new influent chamber.

- Ardi Honarmand from AECOM presented an overview and update on the current status of the project.

5. Other Business

- Martin Shigeishi mentioned that the Annual Report submitted to the Ministry of Environment was completed in late March and will be posted on the City of Toronto’s website within a month or so.

6. Adjournment:

Action Items from this meeting:

	<i>Action Item</i>	<i>Responsibility</i>	<i>Status and/or follow-up</i>
1.	Duffins Creek Plant Tour	Martin	
2.	Response to questions re the PM 10 and 2.5 Limits being exceeded in the Human Health Risk Assessment Report	Barbara LaChapelle and Mae	
3.	Tour of Highland Creek Treatment Plant	Martin	
4.	Post the 2018 Annual Report on the Plant webpage	Mae	

Meeting adjourned

Post meeting note: Wednesday, November 20, 2019 was selected by Chair and Plant Manager for the next meeting. The meeting will be held at the Highland Creek Treatment Plant Boardroom and start at 7:00 pm.

Attendees

Residents:

Frank Moir (NLC Co-Chair)

Don York

Barbara McElgunn

Jim Wakefield

Staff:

Martin Shigeishi – Plant Manager, HCTP

Anthony Pigaidoulis – Senior Engineer, HCTP

Mae Lee – Public Consultation Unit

Ardi Honarmand (AECOM)

Other:

Brett McCandless (Councillor McKelvie’s Office)

Larry Whatmore (West Rouge Community Association)

Table of Commonly Used Acronyms

Acronym	Full Name/Definition
FBI	Fluidized Bed Incinerator
HCTP	Highland Creek Treatment Plant
MECP	Ministry of Environment, Conservation and Parks
MLD	Megalitres per day; 1 megalitre is equivalent to 1 million litres
NLC	Neighbourhood Liaison Committee
µg	Microgram (one millionth of a gram); 0.000001 grams
µm	Micrometre (one millionth of a metre); 0.000001 metres
pg	Picogram (one trillionth of gram); 0.0000000000000001 grams
PM 2.5	Particulate Matter 2.5 (airborne particulate matter with a mass median diameter less than 2.5 µm)
PM 10	Particulate Matter 10 (airborne particulate matter with a mass median diameter less than 10 µm)
ppm	Parts per million (the mass of a chemical or contaminate per unit volume) For context, 1 ppm is equivalent to 32 seconds out of 1 year, or 1 millimetre out of 1 kilometre.
RFP	Request For Proposal (a document that solicits proposals through a bidding process for the procurement of a good or service)