

The Corporation of the City of Kawartha Lakes
Agenda
Lindsay-Ops Landfill Public Review Committee Meeting

2020-159

Wednesday, January 8, 2020

3:00 P.M.

Weldon Room

City Hall

26 Francis Street, Lindsay, Ontario K9V 5R8

Members:

Councillor Pat Dunn

Chris Appleton

Karen Buckley

Barry Hodgson

Lloyd Robertson

Larry Scrivens

Ken Trodd

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1.	Call to Order	
2.	Election of Officers	
3.	Adoption of Agenda	
4.	Disclosures of Pecuniary Interest	
5.	Approval of the Minutes of the Previous Meeting	3 - 7
6.	Reports	
6.1	PRC Activity Summary Spreadsheet	8 - 8
7.	Landfill Complaints	
8.	Leachate Outbreaks	
9.	Other New Business	
9.1	New Lindsay Ops Landfill ECA	
9.2	Options for tire collection	
10.	Public Comment Period	
11.	Next Meeting	
12.	Adjournment	9 - 9

**The Corporation of the City of Kawartha Lakes
Minutes
Lindsay-Ops Landfill Public Review Committee
Meeting**

**2019-158
Wednesday, November 13, 2019
3:00 P.M.
Weldon Room
City Hall
26 Francis Street, Lindsay, Ontario K9V 5R8**

**Members:
Chris Appleton
Barry Hodgson
Larry Scrivens
Ken Trodd**

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1. Call to Order

The meeting was called to order at 2:59 pm.

2. Adoption of Agenda

Moved By L. Scrivens

Seconded By K. Trodd

Carried

3. Disclosures of Pecuniary Interest

There were no declarations of pecuniary interest disclosed.

4. Approval of the Minutes of the Previous Meeting

Moved By C. Appleton

Seconded By B. Hodgson

Carried

5. Reports

5.1 PRC Activity Summary Spreadsheet

6. Landfill Complaints

No complaints.

7. Leachate Outbreaks

No leachate outbreaks.

8. Other New Business

8.1 2019 Work Summary and 2020 Work Plan

Staff and the PRC reflected back on the work that was accomplished in 2019 and spoke about upcoming work in 2020. In 2020 the PRC will work with staff on implementing the goals outlined in the 2019 Waste Strategy Update.

Moved By K. Trodd

Seconded By B. Hodgson

Resolved that the PRC supports the 2019 Work Summary and 2020 Work Plan.

Carried

9. Public Comment Period

No comments.

10. Next Meeting

The next meeting will be Wednesday, January 8 at 3:00pm. in the Weldon Room, City Hall.

11. Adjournment

Moved By K. Trodd

Seconded By B. Hodgson

Carried

2019 Work Summary

Goal	Completed in 2019
Integrated Waste Management Strategy	<p>PRC provided comment, feedback, and suggestions throughout 2019 on the Integrated Waste Management Strategy Update.</p> <ul style="list-style-type: none"> • March- PRC provided feedback on Strategy progress from 2015 to 2019 • April- PRC reviewed public survey questions, participated in brainstorming activities for future initiatives • May- PRC supported recommendations to council to make the mattress recycling program permanent and to continue the construction and demolition pilot throughout 2020 • July- PRC reviewed results of the public consultation process (survey results and comments from public meeting) • September- PRC reviewed and provided feedback on the first draft of Strategy Update • October- PRC supported the second draft of Strategy Update for council approval
2019 Biomonitoring Report	PRC had the opportunity to view the draft Biomonitoring report before it was finalized to provide comments and ask questions.
2018 Annual Monitoring Report	A copy of the 2018 Annual Monitoring Report was provided to the PRC. At the June meeting the PRC viewed a PowerPoint presentation on the reporting results in 2018.
Review of Ministry of the Environment, Conservation and Parks (MECP) Correspondence	<p>PRC reviewed all MECP correspondence regarding the annual monitoring report and any inspection reports.</p> <ul style="list-style-type: none"> • February- PRC provided inspection report by the MECP for the north expansion area of the Lindsay Ops Landfill • April- PRC provided MECP surface water comments on the 2017 Annual Monitoring Report • September- PRC provided MECP groundwater comments on the 2015, 2016, 2017, and 2018 Annual Monitoring Reports as well as an inspection report by the MECP for the storm water management system
Development of 2020 Work Plan	The PRC developed a 2020 work plan for council approval at the November meeting.

2020 Lindsay Ops PRC Work Plan Tool

Committee Name:	Lindsay Ops Landfill Public Review Committee
Work plan for Year:	2020
Approved by Council:	

Goal	Measurement Stages	Timeline	Measurement for Success
Integrated Waste Management Strategy	1. Provide recommendations on the implementation of various waste management initiatives outlined in the Strategy Update for 2020	1. Ongoing	1. 2020 Strategy Initiatives achieved
2020 Biomonitoring Report	1. Review biomonitoring results and report	1. April to June	1. Provide feedback during draft phase of report
2019 Annual Monitoring Report	2. Review 2019 Annual Monitoring Report and committee questions	1. May to June	1. Dialogue with committee to ensure ECA conditions are met
Review of Ministry of the Environment Conservation and Parks (MECP) Correspondence	1. Review all MECP correspondence regarding the annual monitoring report. 2. Review of any MECP inspection reports	1. As received 2. As received	1. Any Ministry correspondence is addressed in a timely manner by committee and staff for response to MECP. 2. For committee information
Development of 2021 Work Plan	1. Review and acceptance of 2021 Work Plan 2. Staff Report to Council for approval	1. November 2. December	1. Approval of 2021 work plan by Lindsay Ops PRC Committee and Council

**Lindsay Ops Landfill Public Review Committee
Action List**

Meeting Date of Activity	Action	Responsibility	Action Item Date:	Status
15-May-13	PRC requested operational updates on the Landfill Gas Electricity Generation.	CKL	Monthly	Jan 8 Meeting: Cover has been placed in well area. Feasibility Study extended to March 2020. Have seen increases in KWH produced since June.
15-Jan-14	That the PRC is copied on Staff Reports to Council regarding the Lindsay Ops Landfill	CKL	As Available	Jan 8 Meeting: No reports going in January.
21-Jan-15	Provide update on quarterly PCB testing (SW3/ SW13)	CKL	Quarterly	Jan 8 Meeting: No samples completed yet for 2020.
17-Jun-15	MECP Comments	CKL	As Available	Jan 8 Meeting: Meeting being scheduled to discuss groundwater and surface water monitoring at the site.
23-Nov-16	Biomonitoring	CKL	As Available	Jan 8 Meeting: No updates.
21-Jan-19	Leachate Water Quality Results	CKL	As Available	Jan 8 Meeting: See attached spreadsheet.
17-May-17	Waste Management Advisory Committee Update	CKL	As Available	Jan 8 Meeting: No meetings yet in 2020.
17-Jan-17	Updates on Blue Box markets and Legislation	CKL	As Available	Jan 8 Meeting: Markets low and expected to drop even lower. Date for transition to producer responsibility of the blue box has been set for 2023-2025.
16-May-18	Construction and Demolition and Mattress Recycling Update	CKL	As Available	Jan 8 Meeting: Budget approved for 2020.
8-Jan-20	Update on Implementation of Waste Strategy Initiatives	CKL	As Available	Jan 8 Meeting: Bylaw update to Feb COW meeting, staff to meet with Fleming College in January to start textile pilot project, work underway on other initiatives
20-Jun-18	Lindsay Ops EA Process Update	CKL	As Available	Jan 8 Meeting: No updates.

Lindsay Ops Leachate			Exceeds Bylaw Value Exceeds PWQO Value													
Parameters	CKL Sewer Bylaw Limits (mg/L)	Provincial Water Quality Objectives (mg/L)	Jan. Results (mg/L)	Feb. Results (mg/L)	Mar. Results (mg/L)	April. Results (mg/L)	April. Results (mg/L) new cell	May Results (mg/L)	June Results (mg/L)	July Results (mg/L)	August Results (mg/L)	September Results (mg/L)	October. Results (mg/L) new cell	Oct Results (mg/L)	Nov Results (mg/L)	Dec Results (mg/L)
Hardness (CaCO3)	N/A	N/A	593	596	544	653	925	557	475	628	649	664	1090	666	610	580
Alkalinity (CaCO3)	N/A	N/A	609	599	601	482	1270	528	531	693	773	759	2380	731	610	543
Biochemical Oxygen Demand (BOD)	300	N/A	<3	19	8	7	262	4	3	5	4	n/a	62	< 3	5	5
TDS	N/A	N/A	991	1005	972	928	1550	796	743	1045	1144	1258	4318	1226	1017	868
Dissolved Organic Carbon	N/A	N/A	13.1	13.4	13.5	12.9	207	14.8	12.1	16.1	18.5	1.3	130	11.4	10	8.2
COD	N/A	N/A	73	62	63	56	644	40	38	76	78	112	692	87	59	50
Chloride	N/A	N/A	176	199	198	127	27.5	107	106	138	202	307	887	278	201	146
Ammonia (N) - Total	N/A	1.11	17.6	17.6	16.9	14.1	10	9.71	10.5	20.9	26.6	28.4	350	27.9	17.4	11.8
Fluoride	10	N/A	0.2	0.1	< 0.1	< 0.1	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 3	< 0.1	< 0.1	< 0.1
Phenolic, 4AAP	1	0.001	0.012	<0.002	< 0.002	< 0.002	0.14	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Sulphate	N/A	N/A	45	42	48	139	10	38	34	33	22	15	121	17	49	50
Nitrite	N/A	N/A	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1	< 0.05	< 0.05	< 0.05
Nitrate	N/A	N/A	0.08	0.15	0.18	0.16	< 0.05	0.42	0.32	< 0.05	< 0.05	< 0.05	< 1	< 0.05	0.21	0.49
Kjeldahl Nitrogen - Total	50	N/A	19.7	20.5	20.8	17.6	104	10.9	10.5	25.2	30.7	35.8	364	35.3	18	14.9
Aluminum - Total	50	0.075*	0.27	0.12	0.12	0.68	0.13	0.1	0.08	0.15	0.1	0.07	0.62	0.1	0.11	0.11
Antimony - Total	5	0.02	<0.0005	<0.0001	< 0.0005	0.0006	0.0022	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.002	< 0.0005	< 0.0005	< 0.0005
Arsenic - Total	1	0.1	0.0024	0.0013	0.0008	0.0013	0.0107	0.0013	0.0009	0.0026	0.0012	0.0014	0.0189	0.0013	0.0015	0.0012
Barium	N/A	N/A	0.331	0.297	0.253	0.245	0.362	0.211	0.159	0.394	0.382	0.471	0.82	0.462	0.313	0.226
Beryllium	N/A	1.1**	<0.002	<0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron	N/A	0.2	0.382	0.426	0.37	0.299	2.95	0.281	0.278	0.509	0.54	0.632	9.68	0.605	0.411	0.3
Cadmium - Total	0.7	0.0002	<0.00007	<0.00015	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070
Calcium	N/A	N/A	179	175	160	211	273	184	154	184	186	180	267	186	184	185
Chromium - Total	2.8	0.0099	0.017	0.011	0.012	0.161	0.013	0.004	0.001	0.013	< 0.001	0.004	0.037	0.003	0.01	0.004
Cobalt - Total	5	0.0009	0.0013	0.007	0.0013	0.0025	0.0052	0.0009	0.0011	0.0015	0.001	0.0011	0.0159	0.0013	0.001	0.0008
Copper - Total	2	0.005	0.0042	0.0011	0.0011	0.0062	0.011	0.001	0.0015	0.0021	< 0.0005	< 0.0005	0.008	< 0.0005	0.0006	0.0011
Iron	N/A	0.3	27.7	11	5.64	21	7.96	20.9	10.8	45.5	14.4	15.1	59.6	11.8	13.9	13
Lead - Total	1	0.005	0.0025	0.00012	0.0002	0.0016	0.0016	0.0004	0.0001	0.0005	< 0.0001	< 0.0001	0.0013	0.0002	0.0005	0.0002
Magnesium	N/A	N/A	35.3	38.6	35.1	30.6	59.1	23.6	21.9	40.9	44.8	52	104	51.3	36.6	28.5
Manganese - Total	5	N/A	0.45	0.363	0.355	0.618	0.63	0.439	0.35	0.447	0.379	0.299	0.837	0.272	0.404	0.416
Mercury - Total	0.01	0.0002	<0.00002	<0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum - Total	5	0.04	<0.0005	0.0002	< 0.0005	0.0022	0.0009	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0021	< 0.0005	0.0007	< 0.0005
Nickel - Total	2	0.025	0.01	0.01	0.01	0.07	0.03	< 0.01	< 0.01	0.01	< 0.01	0.01	0.09	0.01	0.01	< 0.01
Potassium	N/A	N/A	18.1	21.3	19.1	14.5	139	11.7	10.8	24	27.4	28.9	260	31.5	19	12.8
Phosphorus	N/A	N/A	<0.1	<0.1	< 0.1	0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.3	< 0.1	< 0.1	< 0.1
Phosphorus - Total	10	0.01	0.05	0.03	0.03	0.1	0.29	0.05	0.02	0.05	0.03	0.03	3.21	0.06	0.02	0.04
Selenium - Total	1	0.1	<0.005	<0.0001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.012	< 0.005	< 0.005	< 0.005
Silver - Total	0.4	0.0001	<0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	N/A	N/A	121	136	123	97.6	257	81.6	73	136	149	168	740	179	124	91.6
Strontium	N/A	10 bq/L	0.64 mg/L	0.715 mg/L	0.622	0.678	1.35	0.572	0.515	0.774	0.732	0.794	2.73	82.80%	0.679	0.6
Thallium	N/A	0.0003	<0.0003	<0.00005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Vanadium	N/A	0.006	0.0018	0.0009	0.0008	0.0025	0.0074	0.0009	0.0005	0.0018	0.0007	0.001	0.0239	0.001	0.001	0.0007
Zinc - Total	2	0.03	0.023	0.009	0.03	0.035	0.034	0.009	< 0.005	0.006	< 0.005	0.005	0.185	< 0.005	0.018	< 0.005
Benzene	0.01	0.1	0.0023	0.0007	0.0006	< 0.5	0.0007	< 0.0005	<0.0016	0.0006	< 0.0005	0.0018	0.0017	0.0015	0.0019	0.0019
Toluene	0.02	0.0008	<0.0005	<0.0005	<0.0005	< 0.0005	0.0126	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	0.06	0.008	0.0027	<0.0005	<0.0005	< 0.0005	0.0006	< 0.0005	<0.0011	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0008
Xylene, m, p -	N/A	N/A	0.0042	<0.001	<0.001	< 0.001	0.0012	<0.001	<0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylene, o -	N/A	0.04	0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Xylene, m, p, o -	N/A	N/A	0.0042	<0.0011	<0.0011	<0.0011	0.0018	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011

Parameters	Limits	Provincial Water Quality Objectives	Jan. Results	Feb. Results	Mar. Results	April. Results	Apr. Results New Cell	May. Results	June. Results	July. Results	Aug. Results	Sept. Results	Oct. Results New Cell	Oct Results	Nov Results	Dec Results
pH (at 25 °C)	6.0 - 9.5	6.5 - 8.5	7.34	7.68	7.6	7.34	7.74	7.13	7.35	6.95	7.4	7.28	7.87	7.66	7.6	7.37
Conductivity (at 25 °C)	N/A	N/A	1750 µm ho/cm	1780 µm ho/cm	1790 µmho/cm	1590 µmho/cm	3490 µmho/cm	1370 µmho/cm	1350 µmho/cm	1860 µmho/cm	2000 µmho/cm	2160 µmho/cm	7050 µmho/cm	2110 µmho/cm	1750 µmho/cm	1540 µmho/cm
Conductivity (calculated)	N/A	N/A	1650 µm ho/cm	1720 µm ho/cm	1664 µmho/cm	1563 µmho/cm	2403 µmho/cm	1344 µmho/cm	1267 µmho/cm	1692 µmho/cm	1928 µmho/cm	2141 µmho/cm	6453 µmho/cm	2103 µmho/cm	1725 µmho/cm	1479 µmho/cm
Anion Sum	N/A	N/A	18.1 meq/L	18.5 meq/L	18.6 meq/L	16.1 meq/L	26.4 meq/L	14.4 meq/L	14.3 meq/L	18.4 meq/L	21.6 meq/L	24.1 meq/L	75.1 meq/L	22.8 meq/L	18.9 meq/L	16 meq/L
Cation Sum	N/A	N/A	20.3 meq/L	20.2 meq/L	18.2 meq/L	18.7 meq/L	34.4 meq/L	16.8 meq/L	14.3 meq/L	23 meq/L	22.8 meq/L	24.1 meq/L	88.5 meq/L	24.5 meq/L	20.1 meq/L	17.4 meq/L
% Difference	N/A	N/A	5.77%	4.51%	1.09%	7.29%	13.10%	7.78%	0.18%	11.00%	2.68%	0.02%	8.17%	3.55%	2.94%	415.00%
Ion Ratio (AS/CS)	N/A	N/A	0.891	0.914	1.02	0.864	0.769	0.856	1	0.801	0.948	1	0.849	0.931	0.943	0.92
Sodium Adsorption Ratio	N/A	N/A	2.16	2.42	2.29	1.66	3.68	1.5	1.46	2.36	2.54	2.84	9.73	3.02	2.18	1.66
TDS (calc.) / EC (actual)	N/A	N/A	0.567	0.565	0.542	0.585	0.444	0.58	0.551	0.561	0.572	0.582	0.612	0.581	0.582	0.562
Langelier Index (at 25°C)	N/A	N/A	0.875	1.19	1.08	0.845	1.77	0.635	0.78	0.543	1.05	0.903	2.12	1.27	1.14	0.88