

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

2020-161

Wednesday, March 11, 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.	Adoption of Agenda	
3.	Disclosures of Pecuniary Interest	
4.	Approval of the Minutes of the Previous Meeting	3 - 6
5.	Reports	
5.1	PRC Activity Summary Spreadsheet	7 - 7
6.	Public Comment Period	
7.	Landfill Complaints	
8.	Leachate Outbreaks	
9.	Other New Business	
9.1	Public Education and Communication Strategy	
9.2	Peterborough Green Bin Program	
9.3	Soil removal and placement Lindsay Ops cell construction	
10.	Next Meeting	
11.	Adjournment	8 - 9

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

**2020-160
Wednesday, February 12, 2020
3:00 P.M.
Victoria 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

The Chair called the meeting to order at 3:00pm.

2. Adoption of Agenda

Moved By L. Scrivens

Seconded By Councillor Dunn

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 L. Scrivens

Seconded By Councillor Dunn

Carried

5. Reports

5.1 PRC Activity Summary Spreadsheet

6. Public Comment Period

Mr. Wilson shared concerns regarding a recent death of one of his cattle, monitoring wells and health concerns from the landfill, and the future environmental assessment process at the City. Mr. Wilson also informed the PRC that the staff at the Lindsay library could not locate the annual monitoring reports for the Lindsay Ops landfill. Mr. Wilson also inquired about a berm located in the clay borrow area following the recent cell construction project. The PRC asked staff to follow up on this and provide a response at the next meeting.

7. Landfill Complaints

No complaints.

8. Leachate Outbreaks

No leachate outbreaks.

9. Other New Business

9.1 Blue Box Transition to Producer Responsibility

Staff provided the draft AMO presentation on the blue box transition that will be presented at the March 10 Committee of the Whole meeting. PRC members were invited to attend the presentation.

Moved By C. Appleton

Seconded By K. Trodd

Resolved that the PRC receive the draft presentation by AMO.

Carried

9.2 Waste Strategy Implementation Plan for 2020

The PRC was provided a chart outlining the timeframe and implementation plan for each Waste Strategy Update initiative in 2020. The PRC will be consulted throughout the year as the initiatives are being implemented.

Moved By C. Appleton

Seconded By Councillor Dunn

Resolved that the PRC receive the Waste Strategy Implementation Plan for 2020.

Carried

9.3 Public Education and Communications Feedback

The PRC participated in a brainstorming activity to come up with ideas for the Public Education and Communication Strategy that will be presented to Council this year as a Waste Strategy Update initiative.

9.4 MECP Inspection November 2019

Staff provided the PRC with an inspection report from November 19th that was completed at the sawtooth area of the Lindsay Ops landfill. The MECP commented that litter collection should be conducted in the area, but there were no action items in the inspection report.

Moved By B. Hodgson

Seconded By L. Scrivens

Resolved that the PRC receive the MECP inspection report.

Carried

9.5 Peterborough Green Bin Program

The PRC asked staff to reach out to the City of Peterborough to find information on their recent funding approval for a composting facility to be used for a City wide green bin program.

10. Next Meeting

The next meeting will be Wednesday, March 11, at 3:00pm in the Weldon Room, City Hall.

11. Adjournment

The meeting was adjourned at 5:05pm.

Moved By L. Scrivens

Seconded By C. Appleton

Carried

**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	March 11 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	March 11 Meeting: PRC Work Plans went to COW March 10 with tire recycling report. P&E Strategy to COW April 7.
21-Jan-15	Provide update on quarterly PCB testing (SW3/ SW13)	CKL	Quarterly	March 11 Meeting: No samples completed yet for 2020.
17-Jun-15	MECP Comments	CKL	As Available	March 11 Meeting: No comments.
23-Nov-16	Biomonitoring	CKL	As Available	March 11 Meeting: Cambium completed monitoring the week of February 17-21.
21-Jan-19	Leachate Water Quality Results	CKL	As Available	March 11 Meeting: See attached spreadsheet.
17-May-17	Waste Management Advisory Committee Update	CKL	As Available	March 11 Meeting: No February meeting due to scheduling issues. Next meeting to occur March 16.
17-Jan-17	Updates on Blue Box markets and Legislation	CKL	As Available	March 11 Meeting: Date for transition to producer responsibility of the blue box has been set for 2023-2025. AMO to presented to council on March 10.
16-May-18	Construction and Demolition Update	CKL	As Available	March 11 Meeting: City is planning on running a mixed C&D program this year to begin in April pending agreement.
8-Jan-20	Update on Implementation of Waste Strategy Initiatives	CKL	As Available	March 11 Meeting: P&E Plan to council April 7. Have received draft textile report from Fleming College. Waste By-law has been amended.
20-Jun-18	Lindsay Ops EA Process Update	CKL	As Available	March 11 Meeting: No updates.

Lindsay Ops Leachate
2019

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	182	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	<0.0005	< 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	< 0.0005	0.0015	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%	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

Lindsay Ops Leachate
2020

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	609	616												
Alkalinity (CaCO3)	N/A	N/A	579	560												
Biochemical Oxygen Demand (BOD)	300	N/A	5	5												
TDS	N/A	N/A	896	927												
Dissolved Organic Carbon	N/A	N/A	11.1	12.9												
COD	N/A	N/A	44	51												
Chloride	N/A	N/A	135	162												
Ammonia (N) - Total	N/A	1.11	13.6	12.8												
Fluoride	10	N/A	< 0.1	0.4												
Phenolic, 4AAP	1	0.001	< 0.002													
Sulphate	N/A	N/A	46	44												
Nitrite	N/A	N/A	< 0.05	< 0.05												
Nitrate	N/A	N/A	0.11	0.18												
Kjeldahl Nitrogen - Total	50	N/A	15.8	15.8												
Aluminum - Total	50	0.075*	0.18	0.06												
Antimony - Total	5	0.02	< 0.0005	< 0.0005												
Arsenic - Total	1	0.1	0.0022	0.0016												
Barium	N/A	N/A	0.299	0.27												
Beryllium	N/A	1.1**	< 0.002	< 0.002												
Boron	N/A	0.2	0.336	0.327												
Cadmium - Total	0.7	0.0002	< 0.000070	< 0.000070												
Calcium	N/A	N/A	192	196												
Chromium - Total	2.8	0.0099	0.023	0.048												
Cobalt - Total	5	0.0009	0.0008	0.0009												
Copper - Total	2	0.005	0.0021	0.0006												
Iron	N/A	0.3	33.6	26												
Lead - Total	1	0.005	0.0005	0.0004												
Magnesium	N/A	N/A	31.4	30.7												
Manganese - Total	5	N/A	0.487	0.44												
Mercury - Total	0.01	0.0002	< 0.00002	< 0.00002												
Molybdenum - Total	5	0.04	< 0.0005	< 0.0005												
Nickel - Total	2	0.025	< 0.01	0.01												
Potassium	N/A	N/A	14.6	15.2												
Phosphorus	N/A	N/A	< 0.1	< 0.1												
Phosphorus - Total	10	0.01	0.03	0.03												
Selenium - Total	1	0.1	< 0.005	< 0.005												
Silver - Total	0.4	0.0001	< 0.0001	< 0.0001												
Sodium	N/A	N/A	95.8	100												
Strontium	N/A	10 bq/L	0.664	0.641												
Thallium	N/A	0.0003	< 0.0003	< 0.0003												
Vanadium	N/A	0.006	0.0015	0.0007												
Zinc - Total	2	0.03	0.006	0.006												
Benzene	0.01	0.1	0.0014	0.001												
Toluene	0.02	0.0008	< 0.0005	< 0.0005												
Ethylbenzene	0.06	0.008	0.0003	0.0006												
Xylene, m, p -	N/A	N/A	0.0019	< 0.0001												
Xylene, o -	N/A	0.04	< 0.0005	< 0.0005												
Xylene, m, p, o -	N/A	N/A	0.002	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	7.27	7.6												
Conductivity (at 25 °C)	N/A	N/A	1590	1590												
Conductivity (calculated)	N/A	N/A	1448	1557												
Anion Sum	N/A	N/A	16.3	16.7												
Cation Sum	N/A	N/A	18.5	19.4												
% Difference	N/A	N/A	6.32%	7.33%												
Ion Ratio (AS/CS)	N/A	N/A	0.881	0.863												
Sodium Adsorption Ratio	N/A	N/A	1.69	1.75												
TDS (calc.) / EC (actual)	N/A	N/A	0.564	0.582												
Langelier Index (at 25°C)	N/A	N/A	0.823	1.14												