

Winchendon Landfill Site Observation – April 15, 2021

TO: Brian Croteau, DPW Director
FROM: Aaron Sabbs, PE, Tighe & Bond
COPY: Alison Manugian, Conservation & Planning Agent
Alex Fagnand, PE, Tighe & Bond
DATE: May 26, 2021

On April 15, 2021, Aaron Sabbs from Tighe & Bond visited the Winchendon Landfill (hereby referred to as the "Site") to monitor the grading and shaping activities of the Landfill Closure Project. The Site, which is located at 580 River Street, is the former Mabardy Landfill. It is owned and operated by W.L. French Corporation (Operator) as the Winchendon Landfill. As part of the Landfill Closure Project, the Massachusetts Department of Environmental Protection (MassDEP) has permitted the acceptance of up to 415,000 cubic yards of COMM 97-001 material as defined by MassDEP Policy. In accordance with Condition 13 of the Landfill Closure Agreement between the Town and the Operator, the Site was reviewed for compliance with the following documents:

- Corrective Action Design, prepared by Langdon Environmental, LLC, dated June 2019 and revised October 2019.
- Initial Operations Plan, by Langdon Environmental, LLC, dated January 2021, revised to include temporary rip rap settling area.

Landfill Operations

General landfill operations appeared to comply with best practices and the Corrective Action Design. W.L. French was not accepting or moving material on the day of the site visit due to snow. Material placed since the previous site visit is within the limits designated for initial placement and was spread by a bulldozer in the general area of Section B-B of Sheet C-5 of the Corrective Action Design.

Stormwater and Erosion

Stormwater conveyances have been constructed per the Initial Operations Plan as revised to include a temporary rip rap settling area. This plan was submitted to MassDEP under a Major Permit Modification (BWP SQ 11). A swale, including check dams has been constructed from the temporary stormwater basin to the temporary settling area, however, the berms and overflow for the temporary stormwater basin had not yet been built. The swale from the northern section of the site to the temporary stormwater basin had also not yet been constructed.

Erosion control was present along the northern and western edges of the site. There were no noted deficiencies in the erosion control.

Material Accepted

Tighe & Bond reviewed the attached Net Daily Summary Report received for the month of April, which details the total tonnage and number of loads of material received by the facility.

A total of 22,376.79 tons of material was received in April. Accounting for previous tonnage reports received, this results in 694,432.00 tons remaining of the total 788,500 tons permitted. Based on a utilization factor of 1.9 tons per cubic yard of soil, the total volume received in April was 11,777.26 cubic yards, which results in 365,490.53 cubic yards remaining.

The DEP permit limits the number of loads received to 64 per day without special Town permission. There were no days in April in which the number of loads received was greater than 64.

Enclosed are photographs summarizing the items observed during the site visit.

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Photo 1 – Eastern slope and existing access road.



Photo 2 – Temporary Stormwater Basin. 4' high berm with rip rap overflow not yet constructed.



Photo 3 - Swale and check dams between temporary stormwater basin and temporary rip rap settling area.



Photo 4 - Temporary rip rap settling area.



Photo 5 - Representative view of erosion control on the western limits of the Site.



Photo 6 - Existing slope and erosion control at the southern limits of the Site.

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 04/01/2021 to 04/30/2021

04/01/2021

Job Name	Loads	Net	Net Tons
Cambridgeside Galleria minipile spoils (T21-0042-1	2	28,760	14.38
Dot Block (C21-001-1-B)	8	570,380	285.19
Waltham CB 167 Lexington St Waltham (T20-0155-	3	199,240	99.62
04/01/2021 Totals	13	798,380	399.19

04/02/2021

Job Name	Loads	Net	Net Tons
Cambridgeside Galleria minipile spoils (T21-0042-1	2	29,300	14.65
04/02/2021 Totals	2	29,300	14.65

04/05/2021

Job Name	Loads	Net	Net Tons
Callahan School Lynn MA (T21-0064-1-B)	2	151,360	75.68
Callahan School Lynn MA <RCS-1 soil (T21-0064-1	6	411,920	205.96
Cambridgeside Galleria minipile spoils (T21-0042-1	2	28,300	14.15
Dot Block (C21-001-1-B)	5	342,400	171.20
04/05/2021 Totals	15	933,980	466.99

04/06/2021

Job Name	Loads	Net	Net Tons
725-729 Morrissey Blvd, Dorchester (T21-0041-1-B)	21	1,574,980	787.49
Cambridgeside Galleria minipile spoils (T21-0042-1	2	29,240	14.62
Dot Block (C21-001-1-B)	1	63,860	31.93
04/06/2021 Totals	24	1,668,080	834.04

04/07/2021

Job Name	Loads	Net	Net Tons
Cambridgeside Galleria minipile spoils (T21-0042-1	2	28,160	14.08
04/07/2021 Totals	2	28,160	14.08

04/08/2021

Job Name	Loads	Net	Net Tons
5 Washington Street (T20-0270-1-B)	6	406,740	203.37
Cambridgeside Galleria minipile spoils (T21-0042-1	2	31,380	15.69
Lowell High School (C20-023-2-B)	12	829,080	414.54
04/08/2021 Totals	20	1,267,200	633.60

04/09/2021

Job Name	Loads	Net	Net Tons
Cambridgeside Galleria minipile spoils (T21-0042-1	2	30,000	15.00
Dot Block (C21-001-1-B)	10	673,540	336.77
Lowell High School (C20-023-3-B)	15	1,029,380	514.69

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 04/01/2021 to 04/30/2021

04/09/2021 Totals	27	1,732,920	866.46
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04/12/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Cambridgeside Galleria minipile spoils (T21-0042-1	2	32,640	16.32
Dot Block (C21-001-1-B)	10	637,060	318.53
Longwood Towers II (C19-016-1-M)	4	209,600	104.80
Lowell High School (C20-023-3-B)	9	613,180	306.59
Michael E Haynes Apartments (T20-0268-1-M)	1	55,880	27.94
Union 346 (T21-0025-2-B)	4	297,460	148.73
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04/12/2021 Totals	30	1,845,820	922.91

04/13/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
5 Washington Street (T20-0270-2-M)	2	129,780	64.89
Cambridgeside Galleria minipile spoils (T21-0042-1	2	28,720	14.36
Longwood Towers II (C19-016-1-M)	2	95,520	47.76
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04/13/2021 Totals	6	254,020	127.01

04/14/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Cambridgeside Galleria minipile spoils (T21-0042-1	2	29,860	14.93
Chelmsford SS and CBC (T21-0052-1-M)	27	1,850,220	925.11
East River St. Orange MA (T21-0060-1-B)	16	1,179,900	589.95
Longwood Towers II (C19-016-1-M)	2	105,220	52.61
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04/14/2021 Totals	47	3,165,200	1,582.60

04/15/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Alta River's Edge (T21-0028)	29	2,026,200	1,013.10
Cambridgeside Galleria minipile spoils (T21-0042-1	2	32,860	16.43
East River St. Orange MA (T21-0060-1-B)	18	1,299,380	649.69
Facteau-Leary School (T21-0081-1-M)	1	18,580	9.29
Melrose Catch Basin Cleanings (T21-0070-1-M)	2	133,860	66.93
VA Medical Center Garage (T20-0039-1-M)	4	282,460	141.23
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04/15/2021 Totals	56	3,793,340	1,896.67

04/19/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
East River St. Orange MA (T21-0060-1-B)	35	2,315,760	1,157.88
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04/19/2021 Totals	35	2,315,760	1,157.88

04/20/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Alta River's Edge (T21-0028-1-B)	28	1,987,570	993.79

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 04/01/2021 to 04/30/2021

Cambridgeside Galleria minipile spoils (T21-0042-1)	2	27,280	13.64
East River St. Orange MA (T21-0060-1-B)	16	1,178,860	589.43
Lowell High School (C20-023-3-B)	12	818,420	409.21
Melrose Catch Basin Cleanings (T21-0070-1-M)	1	63,940	31.97
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04/20/2021 Totals	59	4,076,070	2,038.04

04/21/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Alta River's Edge (T21-0028-1-B)	15	996,710	498.36
Cambridgeside Galleria minipile spoils (T21-0042-1)	2	28,160	14.08
East River St. Orange MA (T21-0060-1-B)	5	372,140	186.07
Waltham CB 167 Lexington St Waltham (T20-0155-	2	118,260	59.13
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04/21/2021 Totals	24	1,515,270	757.64

04/22/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Cambridgeside Galleria minipile spoils (T21-0042-1)	2	24,600	12.30
Dot Block (C21-001-1-B)	12	797,500	398.75
Worcester SS&CB Disposal (T21-0090-1-M)	24	1,663,200	831.60
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04/22/2021 Totals	38	2,485,300	1,242.65

04/23/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Cambridgeside Galleria minipile spoils (T21-0042-1)	2	28,200	14.10
Dot Block (C21-001-1-B)	17	1,180,780	590.39
Melrose Catch Basin Cleanings (T21-0070-1-M)	1	48,680	24.34
Worcester SS&CB Disposal (T21-0090-1-M)	19	1,341,320	670.66
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04/23/2021 Totals	39	2,598,980	1,299.49

04/26/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
15 Bennett St, Somerville, MA (T21-0018-1-B)	30	2,087,280	1,043.64
43 Foundry Ave (T20-0319-1-M)	5	356,880	178.44
5 Washington Street (T20-0270-1-B)	12	916,220	458.11
Cambridgeside Galleria minipile spoils (T21-0042-1)	2	23,040	11.52
Worcester SS&CB Disposal (T21-0090-1-M)	15	1,065,600	532.80
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04/26/2021 Totals	64	4,449,020	2,224.51

04/27/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
43 Foundry Ave (T20-0319-1-M)	4	273,360	136.68
725-729 Morrissey Blvd, Dorchester (T21-0041-1-B)	20	1,530,180	765.09
Worcester SS&CB Disposal (T21-0090-1-M)	23	1,574,440	787.22
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04/27/2021 Totals	47	3,377,980	1,688.99

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 04/01/2021 to 04/30/2021

04/28/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
5 Washington Street (T20-0270-1-B)	28	1,973,700	986.85
Cambridgeside Galleria minipile spoils (T21-0042-1)	1	11,220	5.61
Worcester SS&CB Disposal (T21-0090-1-M)	27	1,933,800	966.90
04/28/2021 Totals	56	3,918,720	1,959.36

04/29/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
5 Washington Street (T20-0270-1-B)	29	2,114,160	1,057.08
Birmie Ave, Springfield (T20-0198-1-M)	5	292,820	146.41
04/29/2021 Totals	34	2,406,980	1,203.49

04/30/2021

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
4 Birmie Ave, Springfield, MA (T20-0198-1-B)	15	1,123,660	561.83
5 Washington Street (T20-0270-1-B)	7	457,360	228.68
Birmie Ave, Springfield (T20-0198-1-M)	1	52,400	26.20
Cambridgeside Galleria minipile spoils (T21-0042-1)	2	33,200	16.60
Dot Block (C21-001-1-B)	6	426,480	213.24
04/30/2021 Totals	31	2,093,100	1,046.55

	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Grand Total	669	44,753,580	22,376.79