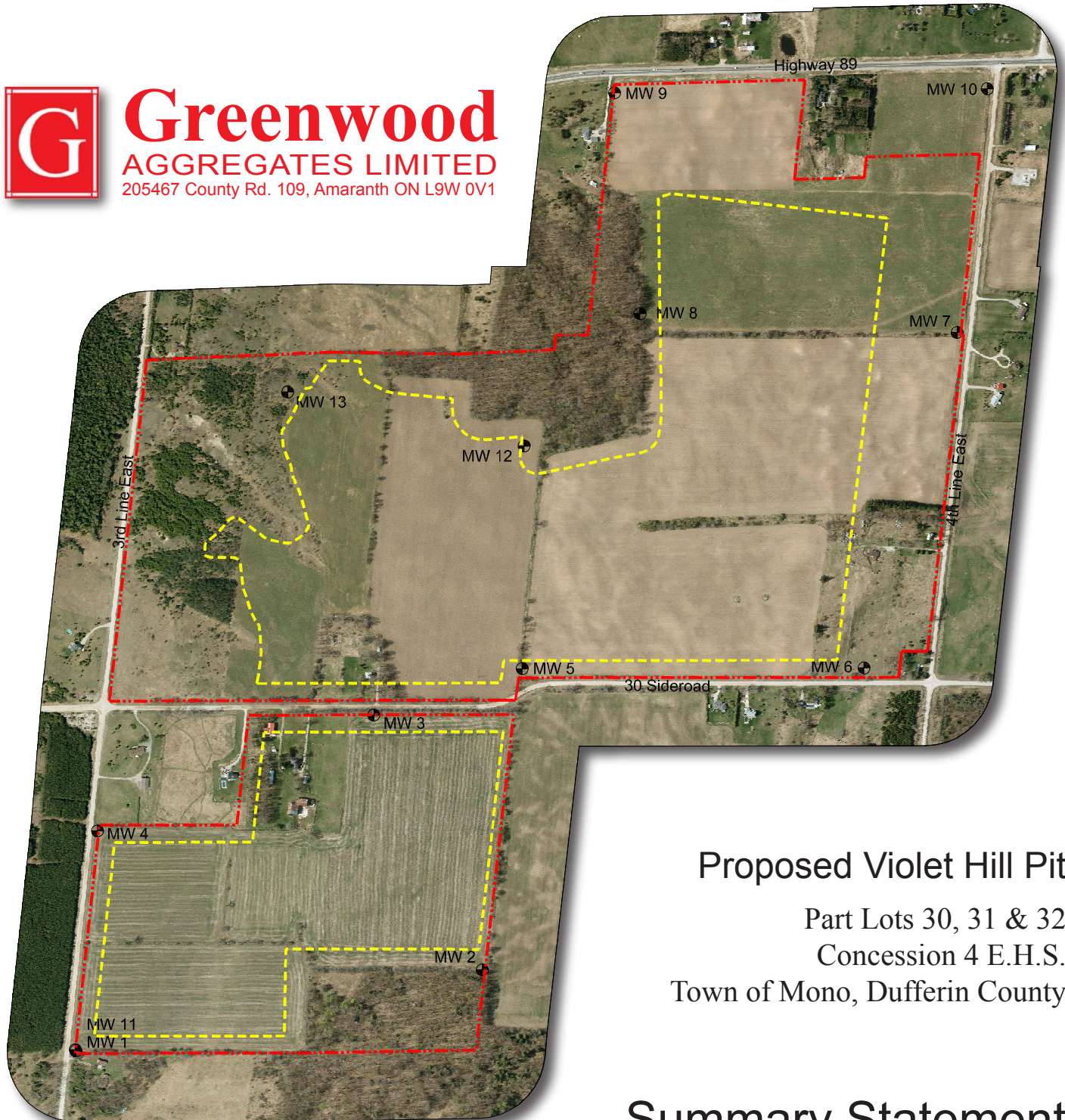




Greenwood
AGGREGATES LIMITED
205467 County Rd. 109, Amaranth ON L9W 0V1



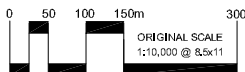
Proposed Violet Hill Pit

Part Lots 30, 31 & 32
Concession 4 E.H.S.
Town of Mono, Dufferin County

Summary Statement

as required by the
Aggregate Resources Act

May, 2016



C.D. Laing Aggregate Management Services Ltd.
Tottenham, Ontario
905-936-6627 claingams5@gmail.com



ROLLINGS HYLAND CONSULTING
Orangeville, Ontario
519-942-1961 jeffrollings@gmail.com

Table of Contents

1. INTRODUCTION	1
1.1 Greenwood Aggregates Limited	1
1.2 Proposed Violet Hill Pit	1
1.2.1 Land Holdings	1
1.2.2 Required Applications	1
1.2.3 Project Description	2
1.2.4 Additional Setbacks	5
1.2.4.1 West Excavation Limit of North Pit	5
1.2.4.2 Forested Areas	5
1.2.4.3 Highway 89 / Estate Residential Buffer	5
1.2.4.4 4th Line Buffer	5
1.2.5 Natural Heritage Mitigation	
2. PLANNING AND LAND USE	7
2.1 Land Use	7
2.2 Provincial Policy Statement	7
2.3 Growth Plan for the Greater Golden Horseshoe	7
2.4 Niagara Escarpment Plan	7
2.5 Dufferin County Official Plan	7
2.6 Town of Mono Official Plan	7
2.7 Town of Mono Zoning By-law	7
2.8 Summary of Policy Considerations	7
3. AGRICULTURE	11
4. QUALITY/QUANTITY OF AGGREGATE	13
4.1 Quality	13
4.2 Quantity	13
5. TRAFFIC AND HAUL ROUTE	14
6. REHABILITATION	15
6.1 Interim Rehabilitation	15
6.2 Final Rehabilitation	16
7. WATER RESOURCES	17
7.1 Surface Water	17
7.2 Groundwater	18
7.3 Aggregate Washing	18
8. ARCHAEOLOGY	20
9. CONCLUSIONS	21

List of Figures

1. Location Plan	1
2. Aggregate Resources Inventory Paper 163 Map 1 Sand and Gravel Resources for Dufferin County	2
3. Existing Features	3
4. Operations Plan	4
5. Erosion Hazard Study Line	5
6. Site Environs	6
7. Town of Mono Official Plan Schedule A	8
8. Town of Mono Official Plan Figure 1A Sand and Gravel Resources	8
9. Town of Mono Zoning Bylaw 78-1 Schedule A	9
10. Detailed Soil Survey and Canada Land Inventory (CLI)	10
11. Digital Terrain Model and Volume Analysis	12
12. Entrance Improvements	14
13. Progressive and Final Rehabilitation Plan	15
14. Agricultural Rehabilitation Sequence	16
15. Monitoring Wells	17
16. Groundwater and Pit Floor Elevations	18
17. Site Plan Cross Sections	19
18. Archaeological Site Violet Hill 1 (BaHa-3)	20

K. Whitewater Hydrogeology Ltd.: *Proposed Violet Hill Pit Combined Level 1 and 2 Hydrogeological Assessment*, November 2015.

Appendix

- A.** Site Plan Pages 1 to 5
- B.** C.C. Tatham & Associates Ltd.: *Erosion Hazards Study*, June 2015
- C.** Geological Investigations: *Aggregate Investigation Part Lots 30 to 32, Concession 4 E.H.S. Town of Mono Dufferin County*, September 2015
- D.** DBH Soil Services Inc.: *Agricultural Impact Assessment*, March 2015
- E.** Robin E. Craig, B.Sc., M.Sc.: *Natural Environment Levels 1 and 2 Report and Environmental Impact Statement*, April, 2016
- F.** C.C. Tatham & Associates Ltd.: *Proposed Violet Hill Gravel Pit, Town of Mono, Traffic Review*, June 2015
- G.** Trinity Consultants Ontario Inc.: *Air Quality Assessment Report*, April 2015
- H.** Archaeological Consultants & Contractors: *A Stage 1 and 2 Archaeological Resource Assessment of Part of Lot 32, Concession 4 E. H.S., Mono Township, Dufferin County*, April, 2013 and
A Stage 1 and 2 Archaeological Resource Assessment of the Proposed Violet Hill Pit Lot 31 & Part of Lot 30, Concession 4 E.H.S., Mono Township, Dufferin County, January, 2015
- I.** Ministry of Tourism, Culture and Sport: Archaeological clearance letter for the Lot 30 and 31 portions of the site
- J.** Valcoustics Canada Ltd.: *Sound Impact Analysis Violet Hill Pit*, June 2015

1. Introduction

1.1 Greenwood Aggregates Limited

Greenwood Aggregates is family owned and operated, serving Dufferin County and area since 1929. The company's main office is located just west of Orangeville at 205467 Dufferin County Road 109.

Overall, Greenwood Construction employs 70 people in its pit operations, ready mix plant and office staff.

The company is made up of two divisions:

Greenwood Ready Mix

Located in Orangeville, Alliston and Elora, including over 30 trucks and;

Greenwood Aggregates, which supplies:

- Granular A & B
- Concrete sand and stone
- Asphalt sand and stone
- Recycled concrete and asphalt

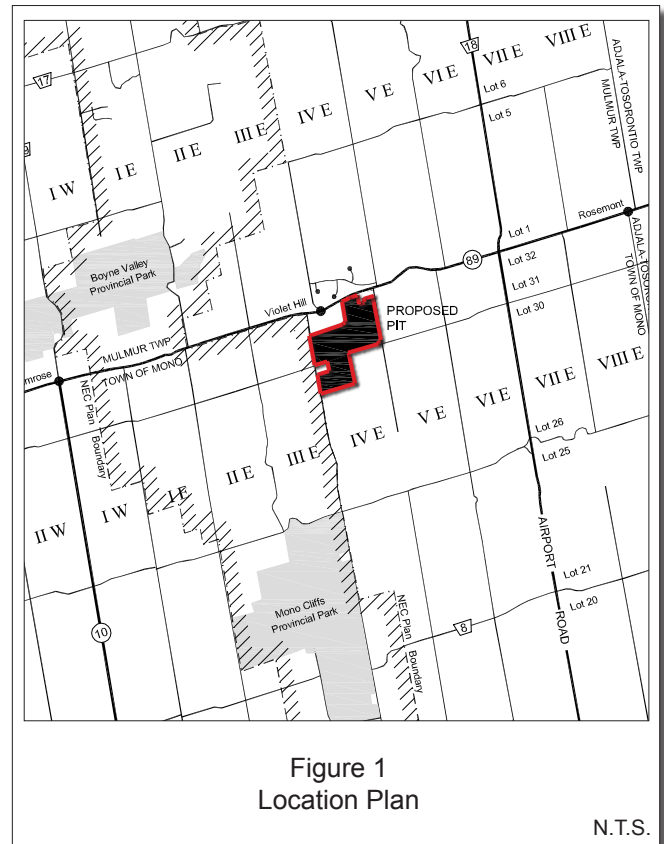
Greenwood requires additional reserves in order to continue supplying its current market in the Headwaters region.

1.2 Proposed Violet Hill Pit

1.2.1 Land Holdings

Greenwood purchased the properties which comprise the proposed Violet Hill Pit between 2001 and 2014. The lands are legally described as part of lots 30, 31 and 32, Concession 4 E.H.S., Town of Mono, Dufferin County (see Figure 1, Location Plan).

13 monitoring wells and 52 test pits confirmed the property contains a substantial volume of aggregate, and established the thickness of overburden and groundwater levels.



Greenwood is proposing development of an aggregate extraction operation with a licence area of 362.1 acres (146.5 hectares). Within the licence area, approximately 206.8 acres (83.7 hectares) are proposed for extraction.

1.2.2 Required Applications

The following applications are required to permit the proposed Violet Hill Pit:

- An amendment to the Town of Mono Zoning By-law to rezone the subject lands from Rural to Extractive Industrial
- An amendment to the Town of Mono Official Plan to redesignate the subject lands from Rural to Extractive
- Application for a Class A Licence under the Aggregate Resources Act (ARA) is required. The Category 3 - Pit Above Water Provincial Standards apply.

1.2.3 Project Description

The subject property is located in an area identified in the Aggregate Resources Inventory Paper (ARIP) for Dufferin County as a tertiary sand and gravel resource area.

ARIP regional scale mapping tends to be generalized in nature and does not identify specific areas of high quality aggregate. Detailed test pitting was completed by Greenwood on the subject property to confirm the site is suitable for extractive development.

A quantitative estimate of the possible resources available from the proposed Violet Hill Pit was calculated by Geological Investigations. This calculation is based upon maximum potential reserves within the license area, extending down to 1.5 metres above the water table. The results indicate that there are approximately 45.1 million tonnes of potentially extractable material above the water table.

Actual extractable reserves are substantially reduced because of the incorporation of larger setbacks, and because the pit floor has been limited to five metres above the water table, rather than the standard 1.5 metre minimum. As a result, reserves proposed for excavation total 24.6 million tonnes.

Depending on market conditions and anticipated production rates up to a maximum of 1,000,000 tonnes annually, the proposed pit will operate for approximately 30 years.

The site has frontage directly on provincial Highway 89, where a proposed entrance/exit will be constructed. A traffic review by C.C. Tatham & Associates recommends the construction of right and left turn lanes at the entrance. No County or local roads are required for a haul route.

The area to be excavated has been broken into five operating segments, A through E. Extraction will begin in the Proposed Stationary Crushing, Screening and Washing Area, part of operating area A.

In order to meet market demand, more than one operating area may be under excavation at any given time, provided noise controls are in place for that area, and

