

300 metres

Maximum Depth of Extraction

**Section A-A1 - Existing Conditions** 

200

100

315

305

Horizontal Scale 1:2,000

Vertical Exaggeration 4x

200

**Section B-B1 - Existing Conditions** 

300

Key Plan

. This site plan is prepared under the Aggregate Resources Act (ARA) for a Class A licence for a pit below the ground water table and follows the Aggregate Resources of Ontario: Site Plan Standards August 2020, specifically Existing Features for all sites (Numbers 1-26 in the standards)

17.9 hectares (44.2 acres)

3. All references to north, south, east and west on this site plan are based

Topographic information compiled by GeoOptic (a Division of Aeon Egmond Ltd.) produced from aerial photography flown July 19, 2018. Mapping is produced in real world scale and coordinates (NAD83 UTM Zone 17N). Contour interval is 1m. All elevations shown are in metres above sea level (masl). Contours for existing site (Licence #6593) from

The licence boundary was established using property boundary complied from Plan of Survey prepared by: H.F. Grander Co. Ltd.,

Ontario Land Surveyor, October 5, 1971 (Plan 40R-6692). . Existing zoning on and within 120 metres of the licence is from the

Township of Uxbridge Zoning By-law 81-19 (as amended), Office Consolidation July 2020. The site is currently zoned Rural (RU). . Existing designations from Township of Uxbridge Official Plan (office

Land use information and structures identified on or within 120 metres of the site boundary was determined using July 2018 aerial imagery and

There are no permanent surface water features on-site or within 120m. Surface drainage on and within 120 metres of the licence boundary is by overland flow in the directions shown by arrows on the plan view, or by infiltration. Surface water drainage in the existing Lafarge Goodwood Pit to the south is by infiltration.

. The water table elevation on site ranges between 322.25 masl in the southeast portion of the site (MW18-02) to 320.97 masl in the northeast portion of the site (MW18-01). The existing water table elevations are shown in each cross section on this drawing and drawing 3 of 3.

There is an existing field access from Concession Road 4. 2. Post and wire fencing (unless noted otherwise) exists in the locations

There are no existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, haul roads, fuel storage, berms or

### G. Significant Natural Heritage Features On and Within 120m of Site . On-site: Bank Swallow, Eastern Meadow Lark and Little Brown Myotis

H. Significant Human-made Features On and Within 120m of Site

. Cross section locations are identified on the plan view for each

Hydrogeology: "Water Report Level 2, Lafarge Goodwood Pit Extension"

Maximum Predicted Water Table Elevation: "Lafarge Goodwood Pit Extension: Maximum Predicted Water Table Elevation", June 7, 2023

Natural Environment: "Proposed Goodwood Pit Extension Natural Environment Level 1 and 2 Technical Report", July 2023 (Source: WSP) Noise: "Noise Impact Study - Project: 18200.00 Goodwood Pit Extension Township of Uxbridge, Ontario" April 16, 2023 (Source: Aercoustics

. Archaeology: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 3 Archaeological Assessment: Goodwood Location 1 (BaGt-45), Lafarge Goodwood Extension Property, Part of Lot 20, Concession 3, Geographic Township of Uxbridge, former Ontario County, now Regional Municipality of Durham, Ontario ", Dated Jul 13, 2021, Filed with MHSTCI Toronto Office on Jul 14, 2021, MHSTCI Project Information Form Number P256-0670-2021, MHSTCI File Number 0009350.

**Legal Description** 

PART OF LOT 20 **CONCESSION 3** Township of Uxbridge Region of Durham

Legend

Boundary of Area to be Licensed

Existing Licensed Boundary GOODWOOD PIT - LICENCE #6593

Existing Fence POST & WIRE FENCE UNLESS OTHERWISE NOTED

Public Road

Private Driveway/ Laneway

Existing Farm/Field Access

**Domestic Well** FROM WSP

FROM WSP 2019

Hydro Pole

CROSS SECTIONS

Monitoring Wells

Parcel Fabric (LOCATION APPROXIMATE)

MW18-01

**Cross Sections** SEE PAGE 1 AND 3 OF 3 FOR EXISTING AND REHABILITATED **Limit of Extraction** ALL SETBACKS ARE DRAWN TO SCALE AND SHOW LABELLED DISTANCES

Existing Extraction Limit GOODWOOD PIT - LICENCE #6593

Contour and Elevation METRES ABOVE SEA LEVEL

Spot Height Elevation METRES ABOVE SEA LEVEL

Building/Structure LOCATION AND USE FOR BUILDINGS ON-SITE AND WITHIN 120m ARE

SHOWN ON THIS PAGE **Existing Vegetation** 

Direction of

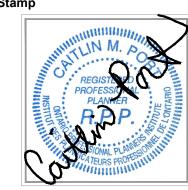
Surface Drainage **Maximum Predicted** Water Table

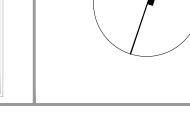
• • • • • (SEE NOTE D, ON THIS PAGE)

Site Plan Amendments Description Date



MNR Approval Stamp







Senior Land Manager - East Central Ontario Lafarge Canada Inc.

Applicant's Signature

Project

# **Goodwood Pit Extension**

Lafarge Canada Inc.

MNR Licence Reference No. Pre-approval review: Revisions per MNR and Agency Peer Review comments - June 2025 Revisions as per agency comments - January 2025 ARA Complete - February 2024 Plot Scale 1:2.0 [1mm = 2.0 units] MODEL

# **EXISTING FEATURES PLAN**

Drawing No. 1 OF 3



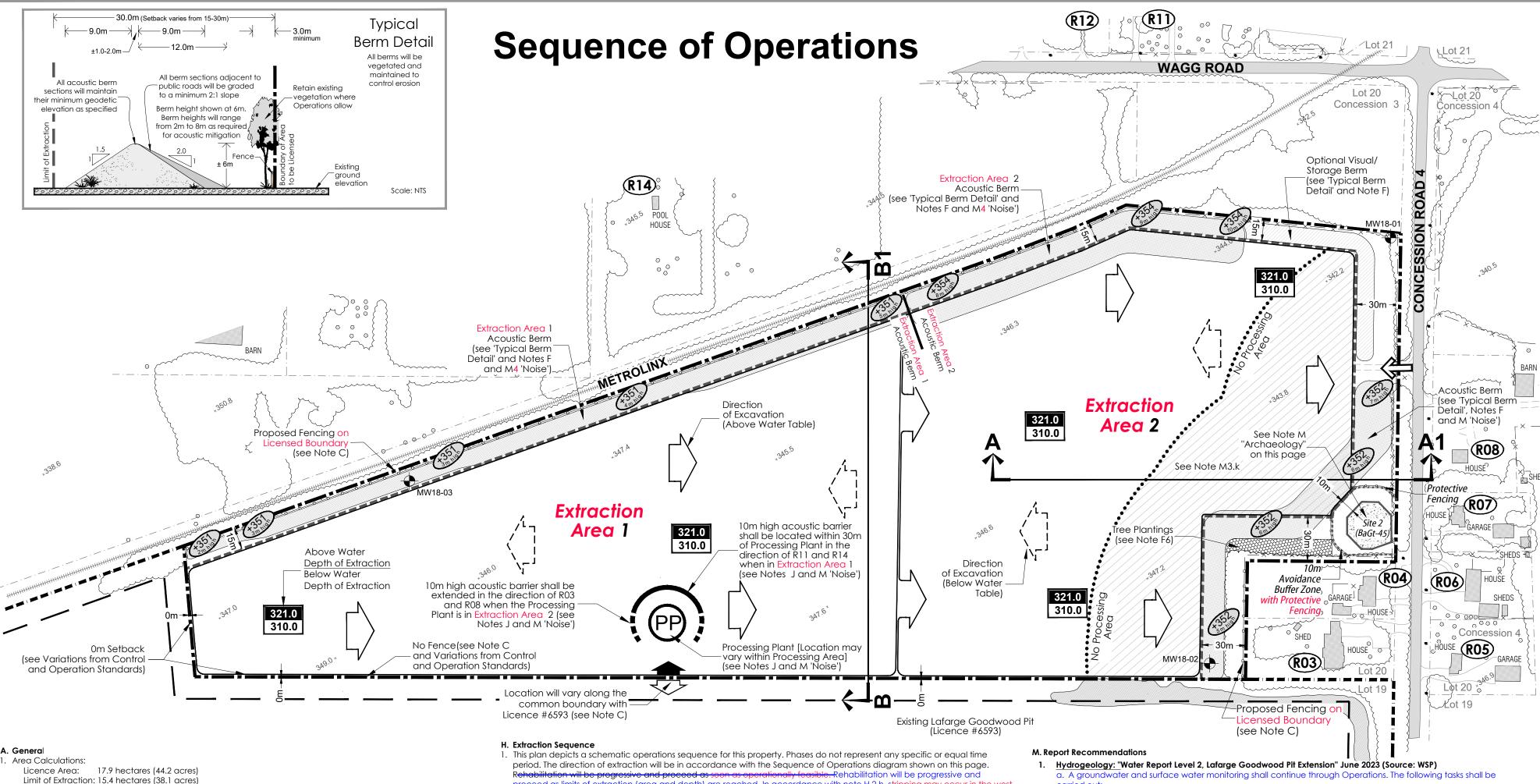
6509 Airport Road, Mississauga Ontario L4V 1S7 Tel: (905) 738-7732

Plan Scale:			TAL SCA	<b>ALE</b>	
25	0	25	50	75	100

D.G.S. Checked By

9526HC

K:\9526HC-Lafarge-Goodwood Pit Extension-Uxbridge\A\Site Plan Revisions June 2025\Goodwood Pit Exfeplan 1of3 June2025.dwg



No more than 1,177,000 tonnes of aggregate shall be removed from the site in any calendar year, unless License #6593 has removed aggregate in the same calendar year. Where aggregate has been removed from License #6593 in the same calendar year as material has been removed from this license, no more than 1,177,000 tonnes of

. No buildings or structures (including a scale and scale house) are proposed. 4. The water table elevation on site ranges between 322.25 masl in the southeast portion of the site (MW18-02) to 320.97

agareagte shall be removed from the two sites combined

masl in the northeast portion of the site (MW18-01). The existing water table elevations are shown in each cross section Setbacks will be as shown and labelled on the Sequence of Operations Diagram on this page and page 1 of 3. There

will be a 0m setback along the southern property boundary adjacent to Licence #6593 (see Section N Variations from Control and Operation Standards) . Agricultural production may continue in greas not under extraction.

Source Water Protection: The site is located in the Lake Simcoe and Couchiching/Black River Source Protection Area. The site is not mapped as being located in a Well Head Protection Area (WHPA), but is located in a Significant Groundwater Recharge Area and a Highly Vulnerable Aquifer Area. Mitigation measures are outlined in the Hydrogeology notes under Section M Report Recommendations.

### 3. Hours of Operation . Hours of Operation are as described in the Noise notes under Section M Report recommendations.

. The existing field access on Concession Road 4 may be utilized for monitoring and agricultural access. The access shall be kept closed during hours of non-operation and shall be maintained throughout the life of the licence.

Aggregate trucks shall not be permitted to access the site at this location. . The site shall be accessed through the common licence boundary with existing licence #6593 and no gate shall be required (see Section N Variations from Control and Operation Standards). The location shown on the plan view is approximate only and may occur anywhere on the common licence boundary during the life of the operation.

3. Portions of the north and west (along Metrolinx right of way) and east (Concession 4 Road) licence boundary that are

not currently fenced shall be fenced with post and wire fencing, at least 1.2 metres in height, prior to site preparation

4. Fencing shall not be required where the licence abuts existing licence #6593 (see Section N Variations from Control and Operation Standards) and in these locations, the boundary will be demarcated by 1.2m high marker posts that are visible from one to the other. If conditions in or around the licensed property change or if either licensed site is surrendered or sold, a 1.2m high fence will be installed. All fencing shall be maintained for the life of the extraction

. Prior to extraction activities occurring in Extraction Area 1, temporary fencing will be installed along the boundary between Extraction Area 1 and Extraction Area 2. The temporary fencing will be removed when site preparation activities are initiated in Extraction Area 2.

Drainage of undisturbed areas will continue in the directions shown on drawing 1 of 3.

. Prior to site preparation, a Spills Contingency Plan shall be developed to address any potential spills from equipment

. Timber resources will be salvaged for use as saw logs, fence posts and fuel wood where appropriate. Non-merchantable timber, stumps and brush will be used in for aquatic habitat enhancement or mulched for use in progressive rehabilitation in this licence or existing Licence #6593. Excess material not required for uses mentioned above will be burned (with applicable permits). 3. Topsoil and overburden shall be stripped and stored separately in accordance with the Sequence of Operations

4. Topsoil and overburden shall be placed in berms or used immediately for progressive rehabilitation in this licence or

adjacent Licence #6525 (see Section N Variations from Control and Operation Standards). 5. Excess topsoil and overburden not required for immediate use in berms or rehabilitation may be temporarily stockpiled on the pit floor or in Licence #6593. Topsoil and overburden stockpiles shall be located within the limit of extraction and remain a minimum of 30 metres from the licence boundary (except where the licence boundary abuts existing Licence #6593 (see Section N Variations from Control and Operation Standards) and 90 metres from a property with a residential use.

Temporary topsoil and overburden stockpiles which remain for more than one year shall have their slopes vegetated to control erosion. Seeding shall not be required if these stockpiles have vegetated naturally in the first year.

Berms shall be constructed to the elevation specified in the locations shown on the plan view prior to extraction/processing operations in each Phase. Locations and heights for all berms are provided on the Sequence of Operations diagram, this page. The heights/elevations shown are the minimum required. Overburden may be

stored in separate berms throughout the extraction area. . Berm side slopes shall not exceed 1.5:1 on the interior and 2:1 on the exterior facing a public road. Berms that are not adjacent to a public road shall have side slopes not exceeding 1:5:1. See 'Typical Berm Detail' on this page. . Berms shall not be located within three metres of the licence boundary except where adjacent to existing Licence

#6593 (see Section N Variations from Control and Operation Standards). 4. All proposed berms will be constructed in accordance with the "Typical Berm Detail" on this page, and will be vegetated and maintained to control erosion using a low maintenance grass/legume seed mixture (e.g. MTO Seed Mix) composed of Creeping red Fescue, Perennial Ryegrass, Kentucky Bluegrass and White Clover. Temporary erosion

control will be implemented as required. Berms shall be maintained throughout the operational life of the pit. . Trees will be planted on the southeast side of the berm adjacent to the residences on Concession Road 4 to enhance

the existing treed area. These trees are to be established within one (1) year of licence issuance. Trees will be maintained and/or replaced if required, throughout the operation of the pit. 7. Existing vegetation within the setbacks shall be maintained except where noise attenuation berms are required.

G. Site Dewaterina

No existing or proposed surface water diversions or discharge has and/or will occur on the proposed extraction area. There will be no dewatering or pumping of water in the extraction area as ponds are included in the final rehabilitation plan.

proceed as limits of extraction (area and depth) are reached. In accordance with note H.2.h, stripping may occur in the west half of Extraction Area 2 while extraction is occurring in Extraction Area 1

Operational Phase 1 - Above Water Extraction a. Site preparation in Extraction Area 1 to include: establishing fencing around the licensed boundary prior to extraction

(subject to overrides); removal of vegetation where necessary; initial stripping of overburden/topsoil and construct berms as

b. Initial set up of portable processing plant on pit floor.

stripping of overburgen/topsoli as snown. Store any excess n the limit of extraction or as shown on the Sequence of Operations.

d. Begin Extraction Area 1 above water extraction in an easterly direction and to the elevations as shown. e. All extraction, processing and transportation equipment operating within this Phase shall comply with the restrictions identified in Noise notes under Section M Report Recommendations

f. The maximum depth of Phase 1 above water extraction is 321.0 masl. g. All Extraction Area 2 berms will be in place prior to extraction in Extraction Area 2. n. Prepare Extraction Area 2 for extraction and ensure all requirements in Sections 'C' through 'G' of this drawing are met.

When 50% of extraction is completed in Extraction Area 1, then stripping may commence in Extraction Area 2.

c. Begin Extraction Area 2 above water extraction in an easterly direction and to the elevations as shown.

a. Complete stripping of overburden/topsoil and construction of Extraction Area 2 berms. Excess material shall be stockpiled in this licence for future rehabilitation. b. The portable processing plant may be relocated to Extraction Area 2.

d. Extract Extraction Area 2 in an easterly direction from Extraction Area 1. e. All extraction, processing and transportation equipment operating within this Phase shall comply with the restrictions identified in Noise notes under Section M Report Recommendations. f. The maximum depth of Extraction Area 2 above water extraction is 321.0 masl.

a. Begin Extraction Area 2 below water extraction in a westerly direction and to the elevations as shown. b. All extraction, processing and transportation equipment operating within this Phase shall comply with the restrictions identified in Noise notes under Section M Report Recommendations.

c. The maximum depth of Extraction Area 2 below water is 310.0 masl. d. Initiate progressive rehabilitation of the side slope and backfill area of Extraction Area 2 along the east, north and northeast portions of Extraction Area 2, adjacent to Concession 4 Road. The progressive rehabilitation side sloping in must be initiated prior to below water table extraction commencing in Extraction Area 1. Approximately 75% of the north side-slope rehabilitation must be completed and rehabilitation of the backfilled area initiated, prior to proceeding with

5. Operational Phase 4 - Below Water Extraction

a. Continue below water extraction in Extraction Area 1 from Extraction Area 2 in a westerly direction and to the elevations

b. Initiate the progressive rehabilitation of side slope rehabilitation along north boundary of Extraction Area 1 and continue the rehabilitation of side slopes and backfill area adjacent to the properties along Concession 4 Road, in Extraction Area 2. c. The maximum depth of Extraction Area 1 below water extraction is 310.0 masl.

a. Complete any remaining extraction activities in Extraction Area 1 and 2 (e.g. under processing area and acoustic berms) b. Complete progressive rehabilitation and final rehabilitation of the site including completing the required backfill and sideslopes, removal of berms, removal of erosion and sediment control fencing, creation of habitat features and implementation of the planting plan as outlined on Page 3. c. Remove all machinery and internal haul roads from site.

. The maximum depth of extraction is as shown on the plan view. Extraction will occur in a maximum of 3 lifts (2 lifts above the water table and 1 lift below the water table) through the two phases as shown on the Sequence of Operations Diagram on this page and in accordance with the Ministry of Labour requirements. The maximum lift height will be 8m. Below water extraction will occur through the use of a dragline or excavator. The proposed pit floor is to be located at an elevation of 310 masl or 33 m to 39 m below the existing ground surface. The proposed pit is to be an extension of the existing Lafarge pit to the

south and west. Aggregate stockpiles will be located on the pit floor (interim and final elevations) and will move throughout the life of the operations of the pit. Stockpiles will not be located within 30m of the Licensed boundary, except along the southern shared licence boundary with Licence #6593, as outlined in the Variations from Control and Operation Standards table on this page. . Internal haul road locations will vary as extraction progresses and will be located on the pit floor.

. The equipment used on site for aggregate operations is listed in Note M Report Recommendations 'Noise', Table B. Any equipment related to the ongoing agricultural use of the site is also perm 2. All processing equipment will be portable (crusher and screener) and subject to the noise controls and be located in close proximity to the extraction face in these Phases in order to maximize acoustical shielding. Within this area, the processing

existing licence #6593 - see Section N Variations from Control and Operation Standards). No permanent processing areas are proposed on site. Portable processing equipment, crushing and screening may be used on site and will be located below grade on the pit floor adjacent to the active pit face. All processing equipment is subject to applicable permitting under MOE Environmental Compliance Approvals. See Note M 'Noise' and Sequence of Operations

equipment shall remain a minimum of 30 metres from the licence boundary (except where the licence boundary abuts

diagram for location of processing plant and limit of 'No Processing Areas'. 4. Berms that encroach within the limit of extraction shall be removed, and the underlying aggregate may be extracted as part of the final extraction/rehabilitation of the site. If berms are removed, they shall be replaced with a suitable barrier as required

# K. Fuel Storage

1. No fuel or associated products will be stored on site. Mobile fuelling will occur in accordance with the Gasoline Handling Act, as amended, the Gasoline Handling Code and regulations, as amended, and Liquid Fuels Handling Code.

. There will be no on-site scrap storage. Temporary scrap storage will be located within the scrap storage area in the existing pit (Licence #6593) and will be removed on an on-going basis. No recycling is proposed.

i. Monthly manual groundwater level monitoring at the three on-site monitoring wells. ii. The three onsite monitoring wells shall be equipped with automated pressure transducers with data loggers, a minimum of one year prior to extraction below the water table in order to provide a continuous record of aroundwater levels

iii. Annual groundwater quality sampling of the on-site wells shall be completed for general chemistry, metals bacteria, petroleum hydrocarbons and volatile organic compounds. iv. Annual surface water sampling of the pit pond shall be completed during the period of below water table extraction for general chemistry, metals, bacteria, petroleum, hydrocarbons and volatile organic compounds.

v. If landowner consent is provided, the following private wells shall be included in the monthly groundwater monitoring and annual groundwater sampling program: 4809, 4639, 4709, 4840 and 4860 Concession Road 4. 2. The Site domestic well will be decommissioned per O.Reg. 903 by a licensed well contractor either prior to extraction or at such time that extraction encroaches on the well location. To address any complaints from residents concerning the impact of the pit operation on their domestic water wells,

the following Well Interference Complaint Procedure shall be in place for the following residential wells: 4809, 4639, 4709, 4840, 4860 Concession Road 4: a. Owners of the domestic wells experiencing disruption or quality problems shall immediately notify the Licensee; b. The Licensee, upon receipt of any water supply disruption or water quality complaint, shall retain the services of an independent Qualified Person (QP, i.e. P.Geo. or P.Eng.) to investigate the cause of the complaint; c. If, through the investigation, it is determined that pit operations have caused an adverse effect at the residential well in question, the Licensee, at their expense, either restore or replace the affected water supply. d. If, through the investigation, it is determined that pit operations have not caused an adverse effect to the well in question, the Licensee shall provide a report documenting the results of the investigation to the well owner and retain a copy on-file so that it can be made available upon request by agencies such as the Township, MNR or

d. Prior to extraction below water, a door-to-door water well survey shall be conducted to confirm baseline conditions at private wells within 500 m of the Site.

Maximum Predicted Water Table Elevation: "Maximum Predicted Water Table Elevation" June 7, 2023 (Source: WSP) An inferred high-water table map is developed using water levels measured during the July 31, 2020 event which represents the highest measured groundwater elevation in all three monitoring wells for the period of record. Consistent with other monitoring events, the on-Site flow pattern during this period is from roughly south to north/northeast. The highest water table level occurs to the southeast at MW18-02 (322.25 masl) and the lowest water level occurs to the

northeast at MW18-01 (320.97 masl).

Natural Environment: "Proposed Goodwood Pit Extension Natural Environment Level 1 and 2 Technical Report", July 2023 and Technical Memorandum "Additional Species at Risk Studies to Support Aggregate Licensing for 4900 4th Concession Road, Goodwood, Ontario" November 21, 2024 (Source: WSP)

a. The removal of any milkweed plants shall be completed outside of the active breeding season (June 1 to September 30) to avoid any direct impacts to any of the monarch life stages. Where clearing activities must proceed within this window, milkweed plants shall be inspected for monarch caterpillars or larvae prior to removal. If caterpillars or larvae are present, they are to be moved to a milkweed plant outside of the construction area. under the direction of a qualified professional. Prior to any relocation of Monarch larvae, the licensee will seek proper authorization with the local MNR District office.

b. Vegetation clearing and removal of agricultural buildings on the site shall occur outside the migratory bird nesting period (April 5 to August 26). If required, vegetation clearing or building removal during the nesting period shall be preceded by a nesting survey conducted within 48 hours of planned clearing start, and active nests are to be buffered from disturbance until young have fledged.

c. Removal of trees on site shall occur outside the bat maternity roosting period (April 1 to September 30). d. Sediment and Erosion control fencing will be installed between the toe of the required acoustical berm and optional visual/storage berm (if installed) and the Licence boundary, adjacent to the off-site woodlot located to the northeast (Lot 20, Concession 3). e. Best management practices to control invasive species during pit operations and rehabilitation shall be

f. Prior to any development or site alteration occurring within the identified Meadowlark, Bobolink, and Species at Risk Bat habitat, the required approvals and/or permits will be obtained from the MECP under the Endangered

### 4. Noise: "Noise Impact Study - Project: 18200.00 Goodwood Pit Extension, Township of Uxbridge, Ontario" April 16, 2023 (Source: Aercoustics Engineering Ltd.) The following noise controls are recommended

a. The Hours of operation are limited as described in Table A. There will be no operations on Statuatory Holidays. The pit will enly operate on Sundays in order to fulfill the requirements of specifi ing Hours outlined in Table A. A response to emergencies is not limited by the hours of operations shown on the site plan.

Table A: Operating Hours

Time of Day	Day of Week	Operations		
06:00 to 07:00	Monday to Saturday	Shipping and Loading Operations Only		
07:00 to 19:00 Monday to Saturday		Full Operation - Extraction, Processing (Crushing & Screening), Loading and Shipping		
06:00 to 19:00 Sundays		The pit will only operate on Sundays in order to fulfill the requirements of specific public construction projects.  Only shipping will occur (no extraction or processing)		

The gagregate pit equipment shall satisfy the noise emissions levels listed in Table B. If desired, the two Quiet Extraction Loaders (maximum 70 dBA each) may be replaced by one regular Extraction Loader (maximum 74 dBA) wherever the Extraction Loaders are permitted.

Table B: Reference Sound Pressure Levels of Aggregate Pit Equipment within Extension

Equipment	Number Permitted	Reference Sound Pressure Level @ 30m (dBA)		
Portable Processing Plant	1	85		
Extraction Loader	2	70		
Shipment Loader	2	67*		
Dragline or Excavator	1	73		
Conveyors		44**		
Highway Trucks		66		
		·		

\* The shipment loaders were assumed to operate at a 50% duty cycle.

\*\* Reference sound level for conveyors is reported in dBA per metre at a distance of 30m. The sound emissions of all construction equipment involved in site preparation shall comply with the sound level limits specified in the MECP publication NPC-115 "Construction Equipment". l. New equipment technology or different configurations may allow proposed changes to any portion of the extraction and processing operations including additional equipment to operate on the site, equipment to be substituted, and/or different berm heights, while still meeting the applicable sound evel limits. Changes may be permitted to the site operations and noise controls provided that the changes still meet the sound level limits, as confirmed through documentation prepared by a

e. An acoustic barrier is required to be solid, with no gaps or openings, and shall satisfy a minimum area density of 20 kg/m2. It could take the form of a pit face, stockpile, acoustic fence, ISO containers, a combination of these, or any other construction satisfying the requirements of an acoustic barrier.

Professional Engineer specializing in noise control. Prior to any modification, the Licensee must obtain

Extraction in Phases 1 and 2 shall proceed in a northeasterly direction with the extraction loaders operating within 30 m of the working face. The working face shall have a minimum height of 7 metres. All equipment shall remain on the pit floor.During all processing operations, a 10 m high acoustic barrier shall be located within 30m of the Portable Processing Plant, between the plant and Receptors R11 and R14. In addition, a 9m high acoustic barrier shall be located within 30m of the Portable Processing Plant, between the plant and Receptors R03 and R08. These barriers can be satisfied by a working face or stockpiles. g. During below water extraction in Extraction Area 1, only a single Extraction Loader shall operate near the Dragline or Excavator, or at the working face.

h. Prior to extraction in Extraction Area 1, an acoustic barrier with a minimum top of barrier elevation of 351 m a.s.l. shall be installed, extending the full length along the north boundary of Extraction Area 1, as shown on the site plan. This barrier shall remain in place during extraction and processing activities.

Prior to extraction in Extraction Area 2, an acoustic barrier with a minimum top of barrier elevation of 354 m a.s.l. shall be installed, extending the length along the north boundary of Extraction Area 2, meeting the acoustic barrier along the north boundary of Extraction Area 1, as shown on the site plan. An acoustic barrier with a minimum top barrier elevation of 352 m a.s.l shall be installed extending the length along the east boundary of Extraction Area 2, as shown on the site plan. A gap in the barrier extending 100 m ir each direction from the northeast corner of the site is permitted. This barrier shall remain in place during

j. No processing shall occur in the lands located within a 160 m radius of Receptors R03, R04, R07, and R08

5. Archaeology: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 3 Archaeological Assessment: Goodwood Location 1 (BaGt-45), Lafarge Goodwood Extension Property, Part of Lot 20, Concession 3, Geographic Township of Uxbridge, former Ontario County, now Regional Municipality of Durham, Ontario", Dated Jul 13, 2021, Filed with MHSTCI Toronto Office on Jul 14, 2021, MHSTCI Project Information Form Number P256-0670-2021,

a. Permanent protective fencing shall be installed around a "nogo" buffer that will extend 10 metres past

the Stage 3 site limits of Goodwood Location 1 (BaGt-45). b. The installation of the permanent protective fencing will be monitored and confirmed by a licensed archaeologist. The results of the monitoring will be documented in an avoidance and protection report and will be submitted to the MHSTCI.

c. During construction, "No-go" and avoidance instructions will be issued to all on-site construction crews. d. Should previously undocumented archaeological resources be discovered that may be a new archaeological site and therefore subject to Section 48(1) of the Ontario Heritage Act, the proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48(1) of the Ontario Heritage Act.

e. The Cemeteries Act, R.S.O. 1990 c. C4 and the Funeral, Burial and Cremation Services Act, 2001, S.O. 2002. c.33 (when proclaimed in force) requires that any person discovering human remains must notify the police or coroner and the Deputy Registrar of the Cemeteries Regulation Unit at the Ministry of

Consumer and Commercial Relations (416) 326-8392. f. The location of the area to be avoided will be on all contract drawings, when applicable, and will

include explicit instructions to avoid the area. g. Archaeology Stage 4 Report will be required should extraction be proposed in Ba-GT-45 area.

6. <u>Air Quality Assessment:</u> "Lafarge Goodwood Pit Extension, Goodwood Ontario, Air Quality Assessment" April 20, 2023 (Source: RWDI Air Inc.) The pit must operate in accordance with the operating standards pertaining to dust outlined in section 0.12 (2) Ontario Regulation 244/97, which include:

a. The licensee or permittee shall apply water or another provincially approved dust suppressant to internal haul roads and processing areas, as necessary to mitigate dust, if the pit or quarry is located within 1,000 metres of a sensitive receptor.

Protection Act where required to carry out operations at the pit or quarry.

b. The licensee or permittee shall equip any processing equipment that creates dust with dust suppressing or collection devices if it is located within 300 metres of a sensitive receptor. c. The licensee or permittee shall obtain an environmental compliance approval under the Environmental

d. The site will operate in accordance with Lafarge's Best Management Practices Plan for The Control of Fugitive Dust Emissions, which may be amended from time to time, considering actual impacts and operational considerations. The recommendations in the BMPP are based on the maximum daily production rates. At lower production rates, the control measures specified in the BMPP can be reduced accordingly, provided dust remains mitigated on site.

N. Variations from Control and Operation Standards

O.Reg 244/97 Section 0.13	Variation	Rational		
(3)(a)	Fencing will not be required along the southern and western boundaries of the area to be licensed where it is coincident with the existing boundary for Licence #6593.	The common licensed boundary will be demarcated by ±1.2m high marker posts that are visible from one to the other. If conditions in or around the licensed property change or if either licensed site is surrendered or sold, a 1.2m high fence will be installed.		
(1)1& (1)2	No gate at the operational entrance/exit to site.	Operational entrance/exit to site is coincident with the existing boundary for Licence #6593.		
(1)10.i	Setback reduced to 0m from 15m along south and southwest limit of site.	Material can be extracted along the common boundary and for rehabilitation to transition between licences. A site plan amendment for existing licence #6593 is required.		
(1)13.i	Stockpiling/processing may take place within 30m from the boundary of the south limit of the site but not within 90m of adjacent residential lands to the east.	The adjacent licence #6593 is owned by the same licensee.		
(1)16	Berms may be located within 3m of the boundary of adjacent Licence #6593.	The adjacent licence #6593 is owned by the same licensee.		
(1)17 & (1)18	Topsoil/overburden stripped in the operation of this site may be used in the rehabilitation of the adjacent Lafarge Licence (#6593)	This will allow small amounts of stripped material from site preparation to be used for progressive rehabilitation in the existing licence.		
(1)19.i	Below water side slopes may vary from a slope that is at least three horizontal metres for every vertical metre (3:1).	Below water slopes will stabilize at the natural angle of repose, which is estimated to range from ±2 - ±3 to 1.		

### PART OF LOT 20, CONCESSION 3 Township of Uxbridge, Region of Durham

**Legal Description** 

MW18-01

Boundary of Area to be Licensed

Limit of Extraction ALL SETBACKS ARE DRAWN

TO SCALE AND SHOW

POST & WIRE FENCE

LABELLED DISTANCES

Existing Fence

METRES ABOVE SEA LEVEL

LOCATION AND USE FOR BUILDINGS

Existing Vegetation

Farm/Field Access

Monitoring Wells

FROM WSP 2019

Existing Berm

Parcel Fabric

(BaGt-45) Archaeological Site

(LOCATION APPROXIMATE)

Archaeological Site

Tree Plantings

ALSO SEE NOTE F7

Avoidance Buffer Zone

with Protective Fencing

NO AGGREGATE HAULAGE

ON-SITE AND WITHIN 120m ARE

SHOWN ON THIS PAGE

Licensed Boundary

GOODWOOD PIT - LICENCE #6599

Extraction Limit GOODWOOD PIT - LICENCE #6593

STANDARDS TABLE)

(Above Water)

ADDITIONAL DETAILS

Operational Entrance

NO GATE (SEE NOTE C2 AND VARIATIONS

**Direction of Excavation** 

REFER TO NOTES (THIS PAGE) FOR

FROM CONTROL AND OPERATIONS

Existing



UNLESS OTHERWISE NOTED Spot Height Elevatior



Direction of Excavation (Below Water) REFER TO NOTES (THIS PAGE) FOR ADDITIONAL DETAILS





MAXIMUM DEPTH OF BELOW WATER EXTRACTION/PIT FLOOR (masl) Noise Receptor



ALSO SEE NOTE M3 'NOISE



(THIS PAGE)



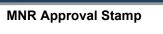


ALSO SEE NOTE M 'NOISE' Cross Sections SEE PAGE 1 AND 3 OF 3 FOR

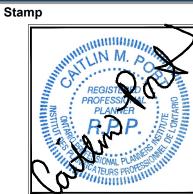
**EXISTING AND REHABILITATED** 

Site Plan Amendments Date





Project





Lafarge Canada Inc.

Building better cities™

LAFARGE

**Goodwood Pit Extension** Lafarge Canada Inc. 6509 Airport Road, Mississauga Ontario L4V 1S7

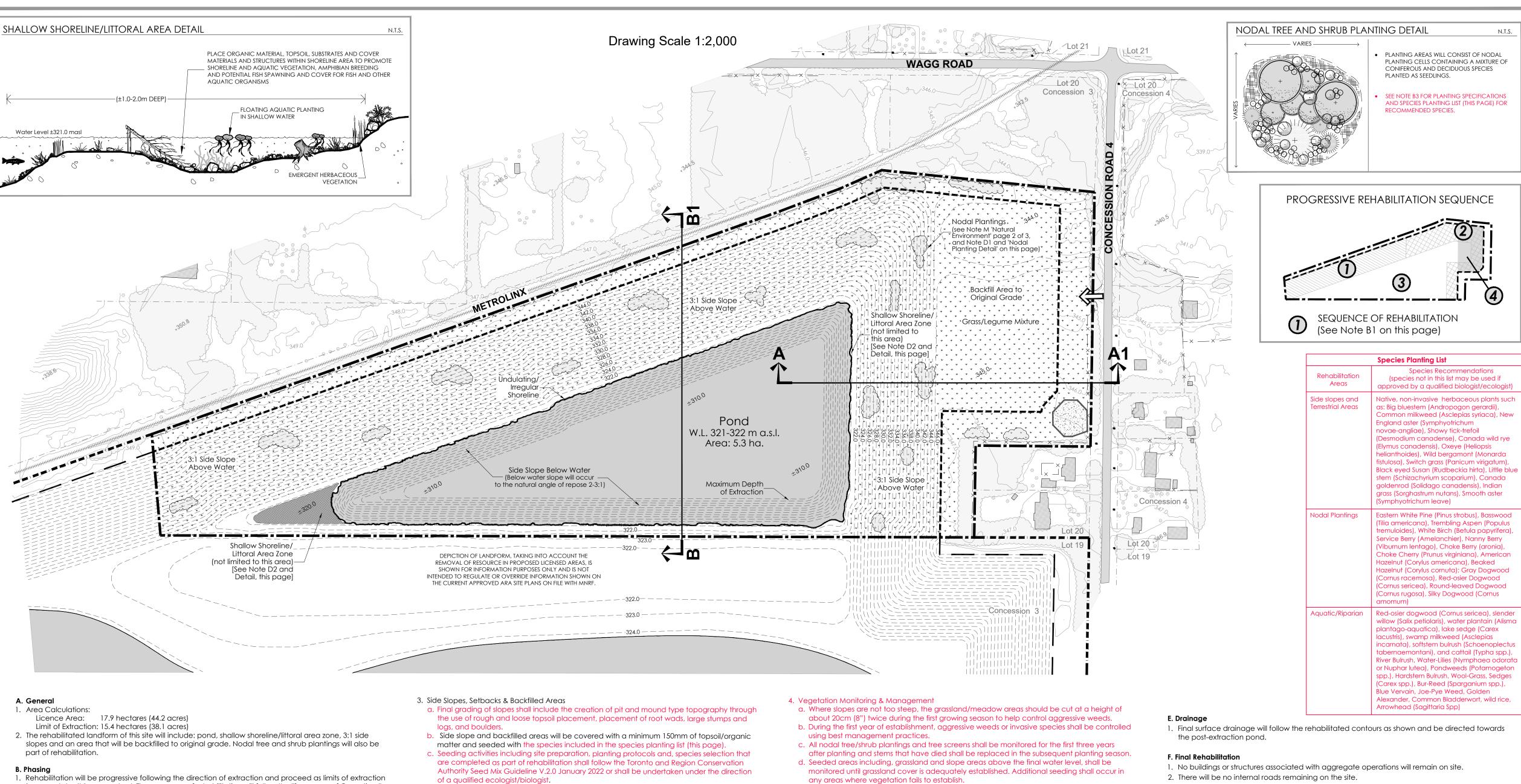
Tel: (905) 738-7732

INR Licence Reference No.						Pre-approval review:				
						Revisions per MNR and Agency Peer Review comments - June 20				
						Revisions as per agency comments - January 2025				
				ARA Complete - February 2024						
Plan Scale 1:2,000 (Arch D) HORIZONTAL SCALE						Plot Scale 1:2.0 [1mm = 2.0 units] MODEL				
						Drawn By	D.G.S.	File No.		
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# **OPERATIONAL PLAN**

Drawing No.

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(area and depth) are reached. The sequence of rehabilitation will follow the "Sequence of Operations" diagram located on page 2 of 3. The above water side slopes in Extraction Area 1 and Extraction Area 2 will be rehabilitated prior to below water extraction commencing in Extraction Area 2. This will involve grading to a 3:1 slope and covering the area with a minimum of 150mm of topsoil/ organic matter. Below water side slopes will be rehabilitated as below water excavation proceeds across the site. The area to be backfilled to original grade adjacent to Concession 4 Road will be the final stage of land form rehabilitation on site (See 'Progressive Rehabilitation Sequence' on this page).

- 1. Topsoil and overburden will be used in the progressive rehabilitation of the side slope areas. Above water side slope areas will be covered with a minimum 150mm of topsoil/organic matter. Overburden/soil will be used to backfill pit faces to desired finished grades (i.e. 3:1 slope). Importation of excess soil will be required to achieve the rehabilitated landform as shown.
- 2. Importation of excess soil is planned for this site to facilitate progressive and final rehabilitation. a. Excess soil, as defined in Ontario Regulation 244/97 may be imported to this site to facilitate the following rehabilitation:
- i. Creation of 3:1 slopes (or sloping ratio otherwise described on this page) ii. Top dressing to establish vegetation
- b. Liquid soil, as defined in Ontario Regulation 406/19 under the Environmental Protection Act, is not authorized for importation to the site.
- c. The quality of excess soil imported to the site for final placement must be equivalent to or more stringent than the applicable excess soil quality standards as determined in accordance with Ontario Regulation 244/97 as amended from time to time and must be consistent with the site conditions and the end use identified in the approved rehabilitation plan.
- d. Where a qualified person is retained or required to be retained in accordance with Ontario Regulation 244/97, the quality, storage, and final placement of excess soils shall be done according to the advice of the qualified person.
- e. Excess soil imported to facilitate rehabilitation as described on this site plan shall be undertaken in accordance with Ontario Regulation 244/97 under the Aggregate Resources Act, as amended from f. The cumulative total amount of excess soil that may be imported to this site for rehabilitation

# D. Proposed Vegetation and Rehabilitated Features

- 1. All nodal tree and shrub plantings and side-slope seeding will consist of native non invasive vegetation species. All ground covers on overburden piles and side slopes will be established as part of the phased stripping operations that proceed extraction and will be maintained and replaced should it fail to establish itself to control erosion.
- 2. Shallow Shoreline / Shallow Littoral Area

purposes is 2,250,000 m<sup>3</sup>.

- a. The following recommendations shall be incorporated into the planting design. All plantings (i.e. nodal plantings) included in the rehabilitation plan shall be locally native, non-invasive species that create habitat in the short term and promote natural succession processes. Recommended shoreline and aquatic plants are listed in the species planting list (this page). Shoreline and aquatic plantings will coincide with the final stages of rehabilitation.
- b. Shallow littoral/wetland habitats should be created through construction of submerged benches up
- Shallow emergent marsh vegetation (i.e. herbaceous species listed above) shall be planted in water ±0.15 m deep and extend ±5 m from the shore and be interspersed with cover structures (e.g.,
- boulders and root wads) in the shallow shoreline littoral/wetland areas. d. Organic material and topsoil shall be added to the shoreline areas to promote shoreline vegetation, and the placement of basking logs (i.e. large woody debris) and rubble/boulders along the shoreline to create turtle basking areas, waterfowl nesting areas and bird perching sites (see "Shallow Shoreline Detail" and "Shoreline Wetland Detail" this page).
- e. A section of northwest wetland shoreline shall be made into a turtle nesting feature (gravel, >3.0m in diameter, >0.5m depth, south facing, slope <30 degrees) and a number of duck boxes shall be installed within the wetland area.
- f. A minimum of 5% of the pond area shall be restored to shallow shoreline/littoral habitat.

- d. Terrestrial nodal plantings on the side slope and within the setback areas shall include a mixture of coniferous and deciduous tree species to promote species diversity and provide a variety of species to compensate for any substrate deficiencies. Recommended species are included in the Species planting list (this page). It is recommended that ash (Fraxinus spp.) species be avoided in rehabilitation plantings due to the invasion of the emerald ash borer.
- e. The tree/shrub planting nodes will be established approximately 100m apart and each planting node shall be 10x30m each in size. The planting nodes will represent no less than 5% of the side-slope habitat area.

the sequence of extraction and side slope/setback grading and seeding.

355

330

f. The establishment of nodal planting areas/cells will occur progressively and generally follow

Nodal Plantings

3:1 Backfilled Side Slope

5m wide Bench

W.L. 321.0m a.s

Pond

(see Notes C and D)

(see Note D1 on—

this page)-

100

# . Rehabilitated Landform

30m Setback-

Existing

Vegetation

- Grass/Legume –

Mixture

200

Backfill

Maximum Predicted Water Table

**Section A-A1 - Rehabilitated Conditions** 

local landscape by providing a feature that will attract migratory waterfowl and provide slopes, setback areas and an area backfilled to original grade for future development

340

335

330

325

320

315

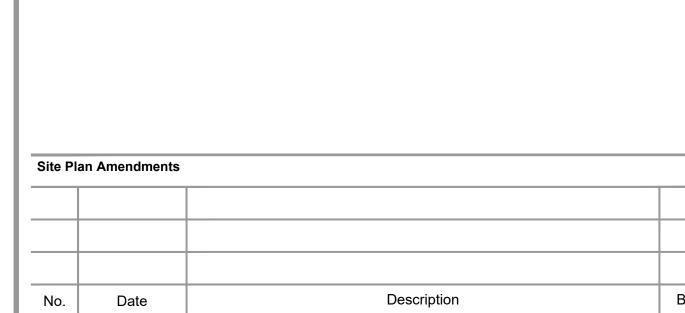
310

- The proposed rehabilitation includes an opportunity to enhance the biological diversity of the elements that will be of value to locally resident wildlife. Rehabilitation of this site involves the creation of 5.3 ha. of lake and 9.7 ha. of terrestrial landform comprised of overburden side opportunity. The final pit landform will be in accordance with the drawing as shown on this
- 3. The water level of the proposed lake (± 321 m a.s.l.) and the post extraction ground water table, are as shown on pages 1 and 3 of 3 as per hydrogeological/hydrological assessments.

### South North Existing Lafarge 15m Setback— Licence #6593 - 0m Setback 355 Fence-350 345 340 340 335 335 3:1 Backfilled Side Slope (see Notes C and D) 330 330 -5m wide $\mid$ Bench-325 325 Water Level 321.0m a.s.l. 320 320 Maximum Predicted Water Table Pond 315 315 310 310 305 305 100 200 300

### Horizontal Scale 1:2,000 Vertical Exaggeration 4x

# **Section B-B1 - Rehabilitated Conditions**





MNR Approval Stamp

**Legal Description** 

Legend

. . . . . .

PART OF LOT 20

**CONCESSION 3** 

Region of Durham

Township of Uxbridge

Boundary of Area

Licensed Boundary

METRES ABOVE SEA LEVEL

METRES ABOVE SEA LEVEL

Field Access

Water Table

ON THIS PAGE)

GOODWOOD PIT - LICENCE #6593

Contour and Elevation

**Spot Height Elevation** 

**Existing Vegetation** 

**Maximum Predicted** 

(SEE NOTE F AND CROSS SECTIONS

EXISTING/PROPOSED AS INDICATED

Vegetation/Trees

**Cross Sections** 

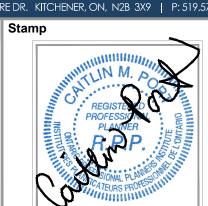
CROSS SECTIONS

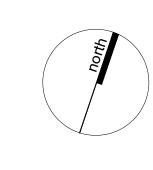
SEE PAGE 1 AND 3 OF 3 FOR

EXISTING AND REHABILITATED

to be Licensed

Existing





Limit of Extraction

Extraction Limit

Existing

ALL SETBACKS ARE DRAWN TO SCALE

AND SHOW LABELLED DISTANCES

GOODWOOD PIT - LICENCE #6593

METRES ABOVE SEA LEVEL (m A.S.L.)

**Proposed Spot Elevation** 

METRES ABOVE SEA LEVEL (m A.S.L.)

**Nodal Planting Areas** 

NOTE M "NATURAL ENVIRONMENT"

MAXIMUM DEPTH OF EXTRACTION

PROPOSED PIT FLOOR (m A.S.L.)

Maximum Depth

Proposed Pond

**Proposed Shallow** 

(SEE DETAIL ON THIS PAGE)

SEE ALSO PAGE 2 OF 3

Grassland Area

(SEE NOTE D ON THIS PAGE)

of Extraction

Littoral Area

**Proposed Contour** 



Senior Land Manager - East Central Ontario Lafarge Canada Inc.

Project

# **Goodwood Pit Extension**

Lafarge Canada Inc. 6509 Airport Road, Mississauga Ontario L4V 1S7

Tel: (905) 738-7732 MNR Licence Reference No. Pre-approval review: Revisions per MNR and Agency Peer Review comments - June 2025 Revisions as per agency comments - January 2025 ARA Complete - February 2024 Plot Scale 1:2.0 [1mm = 2.0 units] MODEL Plan Scale: See Plan HORIZONTAL SCALE D.G.S. Checked By

REHABILITATION PLAN

Drawing No.

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