

On-Site and Excess Soil Management – GN133SP

Special Provision

Version date: April 7, 2026

The Contractor shall retain a Qualified Person (QP) and shall share this special provision with their QP to appropriately develop the scope and pricing for this Work, where applicable.

GN 133.01 SCOPE

This special provision covers the requirements of Ontario Regulation 406/19 (“the Regulation”, “O.Reg. 406/19”) and the “Soil Rules” (as defined within O.Reg.406/19). The Contractor shall perform the Work in accordance with the current version of the Regulation and Soil Rules, which may be amended from time to time.

The Contractor shall be responsible for the management of all material defined as excess soil and engineered aggregate under O.Reg. 406/19, including both dry and liquid soil, crushed rock, and soil mixed with rock or crushed rock, associated with the Work. This shall include excavation, processing, handling, storage, tracking, transportation, placement, and disposal of this material, whether such material is reused on-site, removed off-site as excess soil, or brought to the Project Area for use as fill.

GN 133.02 REFERENCES

This special provision refers to the following acts, standards, specifications, or publications, all of which may be amended from time to time:

Provincial Statute

Ontario Regulation 153/04	Record of Site Condition
Ontario Regulation 347	General – Waste Management
Ontario Regulation 406/19	On-Site and Excess Soil Management

Ontario Ministry of the Environment, Conservation and Parks

Soil Rules	Rules for Soil Management and Excess Soil Quality Standards
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City of Toronto Standard Specifications

TS 4.60	Construction Specification for Utility Cut and Restoration
TS 2.10	Construction Specification for General Excavation

Consultant Reports

The reports listed below are provided in the tender package:

Geotechnical Investigation / Environmental Report Title	Consultant Name and Report Date
Assessment of Past Uses report (APU)	Not completed
Sampling and Analysis Plan report (SAP)	Not completed
Soil Characterization Report (SCR)	Not completed
Excess Soil Destination Assessment Report (ESDAR)	Not completed
Excavation Procedure	Not completed
Soil Quality Screening Memo, Dufferin Transfer Station, Pavement Rehabilitation, 35 Vanley Crescent, North York, Ontario	WSP Canada Inc., March 15, 2024
Soil Management Plan Dufferin Transfer Station, 35 Vanley Crescent, North York, Ontario	WSP Canada Inc., July 22, 2025

GN 133.03 DEFINITIONS

For the purpose of this special provision, the following definitions apply. Other terms used in this special provision have the same meanings as defined in the Construction Agreement, the Regulation (O.Reg. 406/19), the Soil Rules, Ontario Regulation 153/04, and Ontario Regulation 347, as applicable.

Aggregate Reuse Depot means a Class 1 soil management site (SMS) that is operated for the purpose of producing recycled engineered aggregate to meet a realistic market demand.

Asphalt-impacted excess soil means excess soil that exceeds one or more standards set out in the Excess Soil Standards for parameters specified in the Excess Soil Standards, solely because of the discharge of a contaminant from asphalt.

Consultant's QP refers to the qualified person retained by the Design Consultant to ensure compliance with the applicable laws and regulations for the Work. The term "qualified person" shall have the same meaning as defined within O. Reg. 406/19 and O. Reg. 153/04.

Contractor's QP means the qualified person retained by the Contractor to ensure compliance with the applicable laws and regulations for the Work. The term "qualified person" shall have the same meaning as defined within O. Reg. 406/19 and O. Reg. 153/04.

Design Consultant refers to the consultant retained by the City to complete investigations and reporting during the design phase of the Work.

Engineered aggregate means a material that is composed primarily of aggregate, and

at the time when it is used for a purpose such as constructing a road or other infrastructure or a building, it meets an engineering standard developed by, or adopted by, a public body for that purpose.

ESQS refers to the Excess Soil Quality Standards defined within the Excess Soil Standards document in the Soil Rules.

Excavated engineered aggregate means materials, composed primarily of excess soil, that were used as engineered aggregate, that have been excavated and removed from the Project Area and that are to be reused as part of recycled engineered aggregate.

Excavation Procedure refers to the procedures required for potentially contaminated soil under Section 23 of O. Reg. 406/19.

Excess Soil Implementation Report means the final report documenting soil management activities described in this special provision. This report shall describe the quantity of excess soil removed from the Project Area and deposited at each Receiving Site, the dates of deposit, the quality of each soil type (if applicable), details of any rejected loads, any incidents related to soil haulage or soil being sent to the incorrect destination, evaluation of hauling records verifying the completeness and accuracy of all hauling records, and any other information requested by the Contract Administrator related to soil storage, processing, treatment, transportation or tracking on the Work.

Hauler refers to a person who is operating a vehicle for the purpose of transporting excess soil.

Hauling Record refers to the record required under Section 18 of O. Reg. 406/19.

Liquid Soil shall have the same meaning as the term “liquid soil” as defined in O. Reg.406/19.

Local Waste Transfer Facility shall have the same meaning as “local waste transfer facility” as defined in O. Reg.347. In the context of this Work, a Local Waste Transfer Facility can mean a facility that is owned by the City or by a Contractor conducting field operations on behalf of the City.

MECP means the Ontario Ministry of the Environment, Conservation and Parks.

MECP Director means a Director of the Ontario Ministry of the Environment, Conservation and Parks.

Operator means the Project Area operator. The City intends to delegate the role of Project Area operator to the Contractor.

Project Area shall have the same meaning as “project area” defined within O.Reg.406/19.

Project Area Notice refers to the notice filing requirements on the Registry under Section 8 of O. Reg. 406/19.

Project Leader means the City of Toronto for this Work. This term shall have the same meaning as “project leader” defined within O. Reg. 406/19.

Project Leader's QP means the “qualified person”, as defined within O. Reg. 406/19 and O. Reg. 153/04, retained by the Contract Administrator to represent the City (Project Leader). For consultant-managed projects, the Project Leader's QP may be retained by the Design Consultant on behalf of the City and may be the same individual as the Consultant's QP. For internally managed projects, the Project Leader's QP may be retained directly by the Contract Administrator on behalf of the City.

Qualified Person (QP) shall have the same meaning as the term “qualified person” as defined in O. Reg. 406/19 and O. Reg. 153/04.

Receiving Site means a reuse site, a Class 1 SMS, a Class 2 SMS, a local waste transfer facility, or a licensed landfilling site or dump, that receives excess soil or excavated engineered aggregate, or both.

Reuse Planning Reports refer to the Assessment of Past Uses (APU), Sampling and Analysis Plan (SAP), Soil Characterization Report (SCR) and Excess Soil Destination Assessment Report (ESDAR) as described within O. Reg. 406/19.

Reuse Site shall have the same meaning as “reuse site” defined within O. Reg. 406/19.

Reuse Site Notice refers to the notice filing requirements on the Registry under Section 19 of O. Reg. 406/19.

Salt-impacted excess soil means excess soil that exceeds one or more standards set out in the Excess Soil Standards solely because a substance was applied, for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both, to the surface of all or part of a project area from which the excess soil was excavated

GN 133.04 DESIGN AND PRE-CONSTRUCTION

GN 133.04.01 Delegation of Project Leader Responsibilities

The City of Toronto as Project Leader retains ultimate decision-making authority relating to soil management on the Work. The Contractor is responsible for compliance with O. Reg. 406/19, O. Reg. 153/04, and all other applicable legislation in the role of operator of the Project Area as described in O. Reg. 406/19. Selected Project Leader responsibilities are delegated to the Contractor as described in the sections below.

The Contractor shall retain a Qualified Person (Contractor's QP), as defined under O. Reg. 153/04, to ensure the Work complies with O. Reg. 406/19, O. Reg. 153/04 and all other applicable legislation. The Contract Administrator shall also retain a QP (Project Leader's QP) to provide the Project Leader with technical guidance, support and construction oversight during the Work. (The Project Leader's QP can be the same individual as the Consultant's QP retained by the Design Consultant during the design/planning stages of the Work.) The Contractor shall ensure their QP reviews the documents provided by the Contract Administrator and the Project Leader's QP, and prepares the plans, reports and documents required under this special provision. The Contractor shall ensure their QP works with the Contract Administrator and the Project Leader's QP to maintain compliance with O. Reg. 406/19 and this special provision.

GN 133.04.02 Contractor QP Report Review

A soil quality screening investigation was completed for the project area, dated March 15, 2024, and a preliminary soil management plan was also completed for the project area, dated July 22, 2025. The Contractor and their QP shall review these documents to determine if supplemental soil quality characterization and preparation of additional documentation or formal planning documents is warranted to support registration of the Project Area and to meet Receiver and/or Reuse Site requirements.

The Contractor shall ensure their QP reviews all reports and documents provided under Section GN 133.02 References for data completeness, validity of data based on sampling dates, and locations/depths relative to the actual areas to be excavated, and for regulatory compliance under O. Reg. 406/19. If any discrepancy is observed in reports prepared by the Consultant's QP or Project Leader's QP, the Contractor shall provide the Contract Administrator with recommendations to address any such discrepancy to ensure compliance with O. Reg. 406/19. The Contractor will need to provide these reports, information and data to the Receiving Sites to confirm acceptance of excess soil from the Work, so it is critical that the information contained in these reports are accurate, complete, and meet all legislative requirements.

Without limiting the generality of the Agreement including GC 3.6.4, the Contractor shall be responsible for review of the reports, understanding site conditions, and soil quality. The Contractor shall make its own determination of the soil quantity and quality which will require removal for the Work based on the Contractor's proposed methodology and the soil acceptance protocol at the intended Receiving Sites. Where the proposed methodology results in a change in soil quantity or comparison to an alternate soil quality standard, the Contractor shall provide the Contract Administrator with a Soil Characterization update letter prepared by their QP for review by the Project Leader's QP. If additional sampling is undertaken by the Contractor's QP, the Contractor shall provide the Contract Administrator with a Supplementary Soil Characterization Report, as described in GN 133.04.03. No additional payment shall be made as a result of changes to proposed construction methodology and/or the identification of alternate Receiving Sites.

GN133.04.03 Additional Excess Soil Reports

The Contractor shall, where applicable, prepare the reports described below prior to construction.

GN133.04.03.01 Excess Soil Destination Assessment Report (ESDAR)

Based on a review of the scope of work and available exemptions under O.Reg. 406/19, an Excess Soil Designation Assessment Report (ESDAR) is required for this Work. The rationale for this determination is based on the estimated excess soil quantity in Soil Management Plan.

If an ESDAR is required, the Contractor shall ensure an ESDAR in accordance with Section 13 of O. Reg. 406/19 and Part I, Section B, subsection 4 of the Soil Rules is prepared by their QP within 30 Calendar Days upon contract execution and at least 14 Calendar Days prior to excavation. The ESDAR shall also include information about the proposed receiving facilities for excavated engineered aggregate, and estimated volumes to be sent to each facility, if applicable. The ESDAR shall also include figures and description identifying the horizontal and vertical limits of soil of differing quality categories, or soil intended for different Receiving Sites referenced to recoverable benchmarks (e.g., stations, coordinates).

As required by O. Reg. 406/19, the ESDAR shall include a contingency plan to address circumstances where excess soil or engineered aggregate cannot be delivered to the intended Receiving Site for any reason, including, but not limited to: presence of excessive or unexpected debris, presence of suspected contamination, weather-related Receiving Site closures (e.g., weather-related).

Where an ESDAR is not required, the Contractor shall nevertheless submit a list of proposed Receiving Sites prepared by their QP within 30 Calendar Days upon contract execution and at least 14 Calendar Days prior to excavation. This list shall identify the proposed Receiving Sites for both excess soil and excavated engineered aggregate. The requirements for the list of proposed Receiving Sites are included in GN 133.04.04.

Excess soil shall be transferred directly to a licensed soil management site (Class 1 or Class 2 SMS), a Local Waste Transfer Facility (LWTF), a Reuse Site for beneficial purpose, or a landfilling site for disposal as waste. Excess soil sent to a LWTF or Class 2 SMS shall be tracked until it is finally placed at a Reuse site, Class 1 SMS or landfilling site. All interim and final destinations for the excess soil shall be documented within the ESDAR.

The ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt) shall be reviewed for acceptance by the Project Leader's QP on behalf of the Contract Administrator at least 7 Calendar Days in advance of any excavation.

Soil movement activities shall not commence until the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt) has been reviewed and approved by the Project Leader's QP on behalf of the Contract Administrator.

GN133.04.03.02 Supplementary Soil Characterization Report

If additional sampling is undertaken by the Contractor to satisfy the regulatory requirements and support soil acceptance by Receiving Sites, the Contractor shall ensure their QP prepares a Supplementary Soil Characterization Report, and if required, update the ESDAR or the list of proposed Receiving Site (if an ESDAR is exempt) accordingly. The Contractor shall ensure their QP provides laboratory results of chemical analyses completed for additional sampling to the Contract Administrator and Project Leader's QP within 7 Calendar Days of receipt. The Contractor shall ensure their QP provides supplementary reports and updates to ESDAR (if required) for review to the Contract Administrator and Project Leader's QP within 14 Calendar Days. These reports shall be reviewed by the Project Leader's QP on behalf of the Contract Administrator within 7 Calendar Days for acceptance. No additional payment shall be made for additional sampling undertaken by the Contractor and/or the Contractor's QP to satisfy Receiving Site acceptance.

If changes are required to the Project Area Notice or Reuse Planning Reports as a result of additional sampling, the Contractor shall provide the Contract Administrator and Project Leader's QP with all updated information within 14 Calendar Days so that the Contract Administrator and/or Project Leader's QP can facilitate the required updates accordingly. (Refer to GN133.04.07 for further information relating to the Project Area Notice).

GN133.04.03.03 Report Updates under Section 15 of O. Reg. 406/19

Should the Contractor become aware of any of the circumstances described under Section 15 of O. Reg. 406/19, the Contractor shall ensure that the Contract Administrator and Project Leader's QP are immediately notified and a written record is created in accordance with the requirements under Section 15 of O. Reg. 406/19. The Contractor shall provide a copy of the written record to the Contract Administrator within 7 Calendar Days from when the circumstance became known to the Contractor. The Contractor shall ensure their QP updates all documents, makes necessary amendments to the ESDAR (if required) or a list of proposed Receiving Sites (if an ESDAR is exempt), and provides a written recommendation for the disposal of excess soil in accordance with the requirements of O. Reg. 406/19 and the Soil Rules within 14 Calendar Days for review by the Contract Administrator and Project Leader's QP. The report(s) shall be reviewed by the Project Leader's QP on behalf of the Contract Administrator within 7 Calendar Days for acceptance. In addition, the Contractor shall ensure their QP provides the necessary information to the Project Leader's QP to facilitate updating relevant Reuse Planning Reports within 14 Calendar Days.

Furthermore, should the above-mentioned circumstance(s) require an update to the Project Area Notice, the Contractor shall provide the Contract Administrator/ Project Leader's QP with

all updated information within 14 Calendar Days so that the Contract Administrator/ Project Leader's QP can facilitate updates to the Project Area Notice accordingly.

GN 133.04.04 Approved Receiving Sites

The Contractor shall be responsible for finding appropriate Receiving Sites to complete the Work and for obtaining the necessary approvals and authorizations from the Receiving Site owner or operators or both, in accordance with O. Reg. 406/19. If additional sampling, reporting or both is required by one or more Receiving Sites, the Contractor shall be responsible for completing these at no extra cost to the Project Leader. Upon contract execution, the Contractor shall have their QP prepare an ESDAR (GN133.04.03.01), or a list of proposed Receiving Sites if the Work is exempt from an ESDAR, including appropriate supporting documentation (requirements included in GN 133.04.05). The list of proposed Receiving Sites for both excess soil and excavated engineered aggregate from the Work shall include, at a minimum:

- Name(s) of the Receiving Site(s)
- Address(es) of the Receiving Site(s)
- Estimated volumes to each Receiving Site
- Acceptable acceptance criteria for each Receiving site
- A contingency plan including alternate Receiving Site information in the event excess soil and excavated engineered aggregate cannot be delivered to the proposed Receiving Sites.

The Contractor shall submit the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt), and the supporting documentation to the Project Leader's QP for review and approval on behalf of the Contract Administrator, prior to soil excavation/movement.

Receiving Sites, to which all excess soil from the Project Area is deposited, shall be operating under a licence or instrument as defined in Section 3 of O. Reg. 406/19. Privately owned Reuse Sites not operating under an instrument shall be operating under the supervision of a QP. The Contractor shall provide the name of the QP representing the Reuse Site and relevant supporting documentation for the Reuse Site such as a copy of the site's fill management plan, reports confirming the appropriate soil quality standards acceptable at the Reuse Site, records detailing the intended final use and placement location(s) for the excess soil imported to the Reuse Site, and any other records or documents requested by the Contract Administrator, so that the Project Leader's QP can confirm the suitability of the proposed Reuse Site on behalf of the Contract Administrator. The Contractor shall submit the above-noted documentation to the Project Leader's QP for review and approval at least 14 Calendar Days prior to soil movement. The Project Leader's QP will review these documents and shall provide their recommendations on the suitability of the Reuse Site to the Contract Administrator. Based on the Project Leader's QP recommendations, the Contract Administrator shall provide approval to the Contractor for the proposed Receiving Sites within 7 Calendar Days prior to soil movement. The Contractor shall not begin soil movement to a Receiving Site until approval is received from the Contract Administrator. For circumstances where the Contract Administrator and Project Leader's QP

determine that the proposed Receiving Site is not appropriate for the deposit of excess soil or excavated engineered aggregate from the Work based on their review of the above-noted documentation, the Contractor shall identify and propose alternate Receiving Sites for the Work.

Following approval from the Contract Administrator and Project Leader's QP for the proposed Receiving Site, the Contractor shall ensure their QP documents all required information within the ESDAR for the proposed Receiving Site(s), including an identification of contingency measures for rejected loads, in accordance with Section 13 of O. Reg. 406/19.

The Contractor shall obtain written consent from each Receiving Site. The Contractor shall provide a copy of all written consents to the Project Leader's QP and the Contract Administrator prior to soil movement. If the excess soil contains salt-impacted or asphalt-impacted excess soil, or both, the written consent shall expressly acknowledge the Reuse Site's acceptance of this material.

The Contractor shall provide appropriate documentation to confirm that any proposed temporary storage sites, including a LWTF or Class 2 SMS, meet the applicable requirements for use as temporary storage sites under O. Reg. 406/19, at least 14 Calendar Days prior to soil movement. Excess soil sent to a LWTF or Class 2 SMS shall be tracked until it is finally placed at a Reuse site, Class 1 SMS or landfilling site. All proposed temporary storage sites shall be approved by the Project Leader's QP at least 7 Calendar Days prior to soil movement.

Notwithstanding any approval of any Receiving Site by the Contract Administrator, the Project Leader's QP, the Project Leader, the Contract Administrator, or anyone employed or engaged by them directly or indirectly, the Contractor is solely responsible for the identification of potential Receiving Sites. The Contract Administrator or the Project Leader, at its sole discretion, shall approve Receiving Sites, or identify where a Receiving Site is not approved. The Contract Administrator or Project Leader reserves the right to designate a suitable Receiving Site. The parties acknowledge and agree that the Contractor is not entitled to any extension of the Contract Time and not entitled to payment for Losses incurred in circumstances where the Project Leader or Contract Administrator does not approve a proposed Receiving Site. In these circumstances, the Contractor is responsible to identify and propose alternate Receiving Sites.

Furthermore, the parties acknowledge and agree that the Contractor is not entitled to any extension of the Contract Time and not entitled to payment for Losses incurred by any such delay arising from the failure of the Receiving Site to accept the excess soil or excavated engineered aggregate for any reason, including if the site ceases to carry on business during the term of this Agreement, except to the extent the delay is a direct result of an action or omission of the Contract Administrator, the Project Leader, or anyone employed or engaged by them.

GN 133.04.05 Approvals

The Contractor shall be responsible for obtaining the necessary approvals and authorizations from the Receiving Site owner or operators or both according to O. Reg. 406/19.

The Contractor shall have no basis to claim for costs related to delays while obtaining approvals from Receiving Sites or for costs incurred from additional sampling requested by Receiving Sites, or from delays related to the acceptance of excess soil by Receiving Sites.

The Contractor shall determine the appropriate Receiving Sites, and shall be responsible for all costs associated with the management, hauling and placement of excess soil at these sites. Any additional soil sampling required by the Receiving Sites shall be at no extra cost to the Project Leader.

The Project Leader shall not pay costs resulting from a change in proposed Receiving Sites after approval. If changes in Receiving Sites are being proposed after the Contract Administrator has approved initial Receiving Sites, the Contractor shall submit an updated ESDAR or an updated list of proposed Receiving Sites (if an ESDAR is exempt) to the Project Leader's QP for review, including appropriate documentation to confirm the suitability of the proposed Receiving Sites to receive excess soil from the Work. The Contract Administrator will provide approval for changes in the proposed Receiving Sites before or during the pre-construction kickoff meeting. The Contractor shall obtain approval for all Receiving Sites from the Contract Administrator prior to soil movement.

As noted in GN 133.04.04, the Contractor shall obtain written consent from each Receiving Site as required by Section 3.1 of O. Reg. 406/19. The Contractor shall provide a copy of all written consents to the Project Leader's QP and the Contract Administrator prior to soil movement. If the excess soil contains salt-impacted or asphalt-impacted excess soil, or both, the written consent shall expressly acknowledge the Receiving Site's acceptance of this material.

The Contractor shall provide a written notice for each Receiving Site to the Project Leader's QP and the Contract Administrator for review and approval prior to soil movement. The written notice shall include:

1. The Receiving Site owner or operator's written consent to receive the excess soil. If the excess soil contains salt-impacted or asphalt-impacted excess soil, or both, the written consent shall expressly acknowledge the Receiving Site's acceptance of this material.
2. The municipal address or description of the location(s) to which the excess soil will be directly transported from the Project Area.
3. Identification of the location as either a Reuse Site, a Class 1 SMS, Class 2 SMS, a Local Waste Transfer Facility, landfill site or dump and identification of the soil quality acceptable for deposit at that location.

4. The name, title and affiliation of the individual(s) authorizing the deposit.
5. The estimated quantity of excess soil to be deposited.
6. If the excess soil is to be taken directly to a Reuse Site, a Class 2 SMS, or Local Waste Transfer Facility, the written notice shall confirm that the site will have the required capacity for the intended volume of excess soil.
7. If excess soil will be deposited at a Reuse Site governed by an instrument, the Contractor shall provide a copy of the site instrument and identify the public body responsible for issuing the instrument.
8. If excess soil will be deposited at a Reuse Site not governed by an instrument, the Contractor shall provide the property use, soil quality standard applicable to the Reuse Site, intended beneficial reuse of the excess soil to be deposited, and quantity of excess soil required for the identified beneficial reuse.
9. A copy of any soil management plan or fill management plan under which the Receiving Site is operating.

GN 133.04.06 Soil Management Plan for Large or Complex Projects – Not Used

GN 133.04.07 Excess Soil Registry

GN 133.04.07.01 Project Area Notice

Based on a review of the scope of work and available exemptions under O.Reg. 406/19, a Project Area Notice may be required for this Work. The rationale for this determination is based on the estimated excess soil quantity in the Soil Management Plan.

If a Project Area Notice is required under Section 8 of O. Reg. 406/19, the Project Leader's QP is responsible for filing this notice as the authorized person on behalf of the Project Leader prior to soil movement. The Contractor shall provide the Contract Administrator and the Project Leader's QP with all relevant information as specified in Schedule 1 of O. Reg. 406/19 to facilitate the preparation of the notice. The Contractor shall provide a signed letter from their QP verifying the completeness and accuracy of this information to the Contract Administrator and the Project Leader's QP. The Contractor shall provide the information as specified in Schedule 1 of O. Reg. 406/19 and the signed letter from their QP no later than 14 Calendar Days prior to the start of excavation. This information may be used by the Contract Administrator and the Project Leader's QP to support the filing of a Project Area Notice on the Registry prior to soil movement.

The Contractor shall notify the Contract Administrator and Project Leader's QP, within 2 Working Days, of instances where changes to the scope of work or estimated excess soil volumes result in the Work no longer meeting the exemption criteria for the reuse planning requirements within O. Reg. 406/19 (such as preparing Reuse Planning Reports, filing a Project Area Notice and implementing a tracking system). For example, if the initial excess soil volume for the Work is estimated to be less than 2,000 m³ by the Contractor and their QP, based on an assessment of the actual means/methods of construction and the final design, the Work may qualify for an exemption from the reuse planning requirements under Section 8.(1) of O. Reg. 406/19. However, if during construction, it is determined that the actual volume of excess soil generated exceeds 2,000 m³, the Work may no longer be considered exempted from reuse planning requirements such as filing a Project Area Notice and Reuse Planning Reports. In these instances, the Contractor shall notify the Contract Administrator and Project Leader's QP within 2 Working Days of becoming aware of this update, to ensure the Project Leader's QP can file or update the Project Area Notice and prepare/update the Reuse Planning Reports for compliance with O. Reg. 406/19. In these instances, the Contractor shall provide the Contract Administrator and Project Leader's QP with all the required information as noted within this section to support the filing of a Project Area Notice on the Registry. Furthermore, in these instances, the Contractor shall not remove any further excess soil off-site until a Project Area Notice is filed as required by O. Reg. 406/19.

Should the Contractor become aware that the Project Area Notice is no longer complete or accurate, the Contractor shall provide the Contract Administrator with updated information within 14 Calendar Days. The Contract Administrator/ Project Leader's QP shall update the notice within 30 Calendar Days of the noted change/update.

GN 133.04.07.02 Reuse Site Notice

Based on a review of the scope of work and available exemptions under O. Reg. 406/19, a Reuse Site Notice is not required for this Work. The rationale for this determination is that the Work is not expected to import more than 10,000 m³ of excess soil.

GN 133.04.08 Sampling and Analysis Quality Assurance Plan

Upon contract execution, the Contractor shall have their QP prepare and submit a sampling and analysis quality assurance plan for review and acceptance by the Project Leader's QP on behalf of the Contract Administrator. The plan shall describe the sampling requirements necessary to ensure excess soil characterized during design meets the requirements of the intended Receiving Sites, or both. The Contractor shall have their QP conduct sampling under this plan during excavation and prior to soil transport, to confirm the excess soil quality meets the Receiving Site's acceptance criteria, prior to deposit at the intended Receiving Site. The Contractor shall include estimated costs associated with sampling under this plan as part of their bid price.

For clarity, the Contractor shall not collect or submit samples for analysis without prior written approval from the Contract Administrator. The Contractor shall also follow all requirements noted within Section GN113.04.03.03 (Report Updated under Section 15 of O. Reg. 406/19).

The Contractor shall ensure their QP conducts all sampling and analysis of excess soil in accordance with O. Reg. 406/19, O. Reg. 153/04, and the Soil Rules or to meet Receiving Site requirements. Soil samples shall be analyzed by a CALA accredited laboratory in accordance with the "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality", as amended.

The Contractor shall ensure their QP provides a copy of all sampling results and the sampling location plan(s) to the Project Leader's QP and the Contract Administrator within 7 Calendar Days of receiving them. Furthermore, the Contractor shall provide a Supplementary Soil Characterization Report, prepared by their QP, documenting the results of the additional sampling to the Contract Administrator and Project Leader's QP within 14 Calendar Days (GN 133.04.03.02).

GN 133.04.09 Excavation Procedure for Potentially Contaminated Soil

A City standard Excavation Procedure for Potentially Contaminated Soil (Excavation Procedure) shall be followed if any person working in the Project Area observes, during excavation, that the soil being excavated may be affected by the discharge of a contaminant. This standard Excavation Procedure may be requested if it has not already been provided. The Excavation Procedure may be incorporated into the soil management plan, if applicable.

If potentially contaminated soil is required to be stockpiled for sampling (where stockpiling is permitted), no additional costs will be paid related to delays or site constraints associated with testing the stockpiled material.

GN 133.04.10 Design and Pre-Construction Deliverables

The Contractor shall provide the following deliverables to the Contract Administrator, to be reviewed by the Project Leader's QP prior to construction, as required:

- ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt) (GN 133.04.03.01). It shall include appropriate documentation to confirm the suitability of the proposed Receiving Site to accept excess soil from the Work (GN 133.04.04).
- Required information for Reuse Sites not governed by an instrument (this may be incorporated within the soil management plan, if applicable) (GN 133.04.04).
- Soil management plan, if applicable (per GN 133.04.06)
- Sampling and Analysis Quality Assurance Plan, if applicable (GN 133.04.08)
- Written notice and written consent from each Receiving Site, including confirmation from the Reuse Site that the excess soil will be finally placed for a beneficial purpose (GN133.04.05 and GN 133.07.09).

- Supplementary Soil Characterization report or update letter, documenting the results of any supplementary soil sampling undertaken by the Contractor's QP, if applicable (GN 133.04.03.02 and GN133.04.03.03).
- Evaluation by the Contractor's QP as to whether the project is subject to the requirements to file a Project Area Notice or Reuse Site Notice, or both on the Excess Soil Registry based on actual scope of Work for the project and Contractor means and methods (GN 133.04.07).
- Signed letter from Contractor's QP including all information that would be required to file a Project Area Notice or Reuse Site Notice, or both, if applicable (GN 133.04.07).
- Registry notice confirmations including declaration forms, if applicable (GN 133.04.07).

The Contractor shall not remove excess soil from the Project Area until the Project Leader's QP has approved the submitted documentation on behalf of the Contract Administrator. The Contractor shall not be compensated for any delays or standby time resulting from the review and revision of the submissions to the satisfaction of the Contract Administrator and Project Leader's QP. The Contractor shall ensure all the required deliverables are overseen and prepared under supervision of the Contractor's QP and are signed by the Contractor's QP.

GN 133.05 MATERIALS – NOT USED

GN 133.06 EQUIPMENT – NOT USED

GN 133.07 CONSTRUCTION

GN 133.07.01 Soil Quality and Quantity

The following estimated volumes and associated quality category information are provided solely for bidding purposes and shall not be interpreted as upper or lower volume limits. This information shall be confirmed by the Contractor (in consultation with their QP) through reviewing the reference reports listed in Section GN 133.02 References. The Contractor shall confirm the anticipated volume of excess soil to be removed from the Project Area their respective quality prior to the start of the Work.

Please note that when the construction means and methods have been established and potential Receiving Sites have been identified, the Contractor shall confirm the estimated soil volume for each soil quality category intended for transport to each Receiving Site in consultation with their QP. The Contractor shall have their QP review the analytical data presented in the SCR (or due diligence soil sampling report) to confirm the existing sampling data is representative of the volume of excess soil being transported to each Receiving Site and to confirm that the excess soil is of suitable environmental quality and meets the site-specific requirements of the intended Receiving Site.

The Contractor shall make a reasonable effort to identify Reuse Sites that are suitable for the acceptance and appropriate placement of salt-impacted or asphalt-impacted excess soil as per

O. Reg. 406/19 and the Soil Rules. Salt-impacted or asphalt-impacted excess soil shall only be considered as excess soil requiring deposition at a licensed landfill where no other feasible reuse options have been identified.

The Contractor shall also make a reasonable effort to find opportunities for the reuse and/or recycling of excess soil (including excavated engineered aggregate materials) generated from the Work, whenever possible. Excess soil shall only be considered as excess soil requiring deposition at a licensed landfill where no other feasible reuse or recycling options have been identified.

The below table of preliminary estimated excess soil volumes by category is provided for bidding purposes only. Excess soil analytical data in the provided SCR (or due diligence soil sampling report) is compared to select common tables of ESQS, which may not reflect the applicable ESQS for actual proposed Receiving and/or Reuse Site(s). The Contractor shall review, and shall ensure their QP reviews, all available soil data including associated Reuse Planning Reports, to assist in determining which soil quality standard would classify soil as excess soil requiring deposition at a licensed landfill for the Work. The Contractor and their QP may discuss with the Contract Administrator and Project Leader's QP to make this determination.

Project Area	Estimated Soil quantity (m³)	Estimated Soil Quality
Pavement Rehabilitation	±1300	To be determined based on the SMP
Building area (pre-engineered and bunker buildings)	±300	Contaminated (see SMP for contamination level)

GN 133.07.02 Reuse of Soil on Site

Where feasible, the Contractor shall minimize the quantity of excess soil generated during excavation by re-using suitable soil for backfill and grading within the Project Area. The Contractor shall identify engineered aggregate (i.e., granular material) which is suitable for recycling off-site, and this material shall not be mixed with other excavated soils. The Contractor shall not mix or blend soils of different quality categories. Soil intended to be reused on-site shall meet appropriate geotechnical requirements and soil quality standards required for the Work.

Prior to reuse of excess soil on site, the Contractor shall ensure their QP prepares documentation confirming that the excavated soil intended to be reused on site is of an appropriate environmental quality for reuse. The Contractor shall ensure their QP provides a report or a memo containing laboratory analysis, soil classification, and recommendations regarding the potential for reuse of excavated soil on-site. The Contractor shall ensure a copy of this report is provided to the Contract Administrator and Project Leader's QP for review and

approval at least 21 Calendar Days prior to the start of backfilling. The report shall be reviewed within 10 Calendar Days by the Project Leader's QP on behalf of the Contract Administrator.

The origin location(s) and depth(s), volume, and final placement location(s) and depth(s) of excavated soil reused on site shall be tracked and reported in the routine soil tracking and excavation summaries (GN 133.07.12).

GN 133.07.03 On-Site Soil Management

The Contractor shall be responsible for ensuring that on-site soil management, including storage and processing where permitted, is conducted in accordance with O. Reg. 406/19, the Soil Rules and other applicable legislation. Soil on-site shall be managed to prevent adverse effects related to noise, dust, odour, leaching to surface water or groundwater, erosion, runoff, and mud tracking. These on-site soil management requirements shall be included in the soil management plan (GN 133.04.06), if applicable.

GN 133.07.04 Soil Storage

Stockpiling of excavated soil within the City street allowance is not permitted according to the "TS 4.60.07.02.02 Excavation".

For this Work, stockpiling is not permitted at the Project Area.

For this Work, stockpiling is permitted at an MECP authorized Local Waste Transfer Facility (LWTF) operated by the Contractor, if needed.

If it is impracticable to characterize excess soil in-situ prior to excavation, stockpiling of excess soil is permitted at an approved LWTF for the purpose of soil characterization prior to transportation to a Receiving Site. Stockpiling of excess soil of known quality is also permitted at an approved LWTF as a temporary measure prior to movement of this material to an approved Receiving Site for final placement. All other excess soil is to be directly transported to approved Receiving Sites. The Contractor shall ensure excess soil is stockpiled in accordance with O. Reg. 406/19 and Section C of the Soil Rules. The Contractor shall ensure excess soil is tracked from the Project Area to the LWTF and to the final Receiving Site in accordance with the Tracking System section (GN 133.07.12). The Contractor shall ensure details of the LWTF are noted in the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt).

If the Contractor intends to stockpile excess soil at a LWTF, the Contractor shall ensure all requirements under subsection 3 of Section C of the Soil Rules are met, including the follows, before soil is transported to or stockpiled at the LWTF:

1. Provide the Contract Administrator with documentation confirming that the Contractor has obtained written consent from the MECP Director to operate the Contractor's works yard as a LWTF (for dry and/or liquid soil management) including:

- a) Copy of the written notice submitted to the MECP Director identifying the facility's location and address.
 - b) Estimated quantity and quality of soil to be stored from all originating Project Areas that are likely to have excess soil stored at the LWTF during the time period that soil from the Project Area is proposed to be stored at the LWTF and whether the LWTF stores dry and/or liquid soil.
 - c) Confirmation that the volume of all liquid and dry soil stored at any one time at the LWTF will not exceed the prescribed storage limits as specified within O. Reg. 406/19.
 - d) Duration of soil storage for excess soil from the Project Area (approximate deposit and removal dates).
 - e) List of Receiving Sites at which excess soil from the Project Area is ultimately intended to be deposited at.
2. Provide the Contract Administrator with a soil management plan for the LWTF identifying record keeping procedures and examples, stockpile segregation and tracking procedures, hauling record procedures, soil processing or dewatering procedures, soil storage procedures and contingency measures.
 3. Prepare all required records as described in subsection 3 of Section C of the Soil Rules, and provide a copy of these records to the Contract Administrator within 14 Calendar Days.

The Contractor is allowed to mix soil of similar quality from different Project Areas for the sole purpose of hauling the material to a single Receiving Site. If the Contractor intends to mix soil for this purpose, the Contractor shall provide the Contract Administrator with a copy of all soil sampling results confirming that the soils to be mixed are of similar quality; this information will be reviewed and confirmed by the Project Leader's QP on behalf of the Contract Administrator. The Contractor shall also submit the cost of disposal or reuse of this mixed soil to the Contract Administrator for approval. The Contractor shall receive written approval from the Contract Administrator before proceeding with any soil mixing activities. The Contractor shall also ensure prior written approval has been received from the Receiving Site for the acceptance of this mixed soil, and a copy of this approval shall be provided to the Contract Administrator, before proceeding with any soil mixing activities.

GN 133.07.05 Soil Processing

For this Work, soil processing is not permitted at the Project Area.

The Contractor shall only conduct soil processing at a Local Waste Transfer Facility if approved to do so and with prior written approval from the Contract Administrator.

GN 133.07.06 Liquid Soil

Liquid Soil, including soil that is generated by hydro excavation activities and hauled using hydrovac trucks, shall be managed in accordance with O. Reg. 406/19, the Soil Rules, and O. Reg. 347.

The Contractor may store Liquid Soil at the Project Area or LWTF with prior written approval from the MECP Director and the Contract Administrator. Liquid Soil that is stored at the Project Area or a LWTF shall be managed in accordance with O. Reg. 406/19 and the Soil Rules.

If Liquid Soil is dewatered or solidified at the Project Area or LWTF for final deposit at a Reuse Site, the Contractor shall have their QP develop and implement written procedures related to these processing activities and shall document the activities according to O. Reg. 406/19. The Contractor shall provide a copy of any such procedures prepared by their QP to the Project Leader's QP for review and approval at least 14 Calendar Days prior to Liquid Soil storage, processing, or transportation. Furthermore, the Contractor shall provide a copy of the written procedures and any other required documents to the Receiving Site, obtain the necessary approvals and authorizations from the Receiving Site owner/ operator or both, and confirm their acceptance of the dewatered excess soil under the proposed procedures and methodology, prior to implementing any such procedures at the Project Area. The Contractor shall provide confirmation of Receiving Site's acceptance of the proposed methodology for dewatering/ solidification to the Contract Administrator and Project Leader's QP prior to implementing any such procedures on-site. The Contractor shall be responsible for ensuring Receiving Sites are satisfied with the proposed methodology/ procedures for dewatering/solidification prior to the implementation of any such procedures, to avoid the dewatered soil from being rejected by the Receiving Site. No additional payment shall be made due to rejected soil by Receiving Sites as a result of implementing incorrect or not previously approved procedures.

The Contractor shall be responsible for obtaining any approvals required under the Ontario Water Resources Act.

Regulatory-compliant hauling records and implementation of the Tracking System (GN 133.07.12) are required for all liquid soil generated by the Work.

GN 133.07.07 Tunneling Spoils – Not Used

GN 133.07.09 Deposit of Excess Soil and Engineered Aggregate

The Contractor shall transport and deposit excess soil and engineered aggregate only at the Receiving Sites identified in the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt), and shall comply with all applicable rules and operating requirements of each site. Requirements for Receiving Site approvals and written consents are as set out in GN

133.04.05. In the event that the excess soil or engineered aggregate cannot be deposited at a proposed Receiving Site, follow requirements outlined in GN 133.07.13 Rejected Loads.

Upon contract execution, the Contractor shall submit the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt) and supporting documentation to the Contract Administrator and Project Leader's QP for review and approval prior to soil movement, as detailed in GN133.04.04 and GN133.04.05.

GN 133.07.10 Transportation of Excess Soil and Engineered Aggregate

The Contractor shall transport soil to an approved interim site (e.g., LWTF, Class 2 SMS) or directly to an approved Receiving Site for beneficial reuse or disposal as waste as specified in the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt). The Contractor shall transport excavated engineered aggregate to an appropriate facility as specified in the ESDAR or a list of proposed Receiving Sites (if an ESDAR is exempt).

The Contractor shall ensure that the transportation of excess soil or engineered aggregate is performed in accordance with Section 17 of O. Reg. 406/19, including adherence to the follows:

1. The owner and operator of a vehicle transporting excess soil that is not designated as waste shall ensure that the excess soil and engineered aggregate is collected and transported in accordance with Section 17 of O. Reg. 406/19.
2. The owner and operator of a vehicle transporting excess soil that is designated as a waste shall comply with Section 16 of O. Reg. 347.
3. The Contractor shall find and secure appropriate Receiving Sites that are accessible at all times, even during wet or inclement weather. The Contractor shall have no basis to claim for additional costs and/or delays arising from closure of Receiving Sites as a result of wet or inclement weather.

GN 133.07.11 Hauling Records

All soil and engineered aggregate transported off site shall be managed in accordance with Section 18 of O. Reg. 406/19. The Contractor shall ensure each Hauler is provided with a Hauling Record that contains mandatory information for each load as detailed under Section 18 of O. Reg. 406/19.

Before a load of excess soil (including liquid soil) or engineered aggregate is removed by a vehicle from the Project Area or imported by a vehicle to the Project Area, the Contractor shall ensure a Hauling Record in accordance with Section 18 has been created for the load and shall confirm that the information contained within the Hauling Record is accurate for each load. This

confirmation shall be captured as a signed declaration by the Contractor within the Hauling Record for each load.

Upon deposit of the excess soil or engineered aggregate at a Receiving Site, the Contractor shall ensure the Hauler obtains a completed Hauling Record, including a signed declaration acknowledging the deposit of the excess soil or engineered aggregate, from an authorized person at the Receiving Site. Furthermore, the Contractor shall ensure a copy of the completed and signed Hauling Record is provided to the Contract Administrator, Project Leader's QP and the authorized person at the Receiving Site for each load.

In the event that the excess soil or engineered aggregate cannot be deposited at a proposed Receiving Site, the Contractor shall immediately notify the Contractor's QP, Contract Administrator, and Project Leader's QP, and follow the applicable contingency measures (GN 133.07.13).

The Contractor shall provide the Contract Administrator and the Project Leader's QP with a completed and signed Hauling Record for each load of excess soil or engineered aggregate removed from the Project Area within 2 Working Days of soil movement. All Hauling Records shall be reviewed by the Contractor's for completeness and accuracy and the results of the evaluation including the rationale for any anomalies shall be provided to the Project Leader's QP within the routine soil tracking and excavation summaries (GN 133.07.12). Within 14 Calendar Days after completion of all excess soil removal from the Project Area, the Contractor shall submit the Excess Soil Implementation Report (GN 133.07.16) to the Contract Administrator and the Project Leader's QP, including copies of all Hauling Records and a summary of the total volume of soil and/or engineered aggregate transported to each Receiving Site.

The Contractor shall use the City-specific Hauling Record template. The latest version of this template will be provided by the Contract Administrator to the Contractor following contract execution.

In lieu of completing the above-noted City-specific Hauling Record template for each load, the Contractor may provide Hauling Records to the Contract Administrator electronically as part of a digital tracking system in accordance with GN 133.07.12 Tracking System. If digital Hauling Records will be provided in lieu of the City-specific Hauling Records template, the Contractor shall ensure all requirements within GN133.07.11 and Sections 18 and 18.1 of O. Reg. 406/19 are followed, including the requirements to confirm an accurate Hauling Record is created for each load, and to ensure contingency measures are developed and communicated to the Hauler for each load.

The Contractor shall maintain Hauling Records for at least two (2) years after the last day that the excess soil was loaded for transportation in accordance with Section 28 of O. Reg. 406/19.

GN 133.07.12 Tracking System and Routine Soil Tracking Reports

All excess soil transported within the Project Area and off-site shall be tracked by the Contractor using a tracking system in accordance with Section 16 of O. Reg. 406/19 and the Soil Rules. Prior to the removal of any excess soil from the Project Area, the Contractor shall ensure all relevant documentation is completed and accurate, and a digital tracking system is in place.

A tracking system compliant with O. Reg. 406/19 is mandatory for this Work, regardless of whether it is exempt under O. Reg. 406/19.

Furthermore, a digital tracking system meeting the requirements of Section 16 of O. Reg. 406/19 and the Soil Rules is required for this Work. The Project Leader's QP, Contract Administrator and/or the City shall be given access to the digital tracking system to have real-time access to tracking information and records on the soil movement and final destinations for each load of excess soil leaving the Project Area.

The Contractor shall develop and implement a digital tracking system. A commercially available digital tracking system, or a Receiving Site's digital tracking system may be used in place of a separate standalone tracking system. The Contractor shall ensure that the Project Leader's QP, Contract Administrator and/or the City are given real-time access to the system. The tracking system shall be accessible to all necessary parties at no extra cost.

No additional costs shall be paid related to the development and implementation of the digital tracking system.

During construction, the Contractor shall ensure their QP reviews and evaluates daily tracking records obtained from the digital tracking system and Hauling Records for compliance with O. Reg. 406/19 and contract requirements.

During excavation and excess soil export and/or import activities, the Contractor shall provide, or shall have their QP provide, a weekly soil tracking and excavation summary report. The routine soil tracking reports shall include:

- Excavation locations
- Volume of each soil type excavated
- Receiving Site(s) to which the soil was hauled
- Rejected loads
- Any incidents related to soil haulage or soil being sent to the incorrect destination
- Details of any contingency procedures implemented
- Details of any debris encountered (including type, estimated quantity, handling)

The Contractor shall notify the Contractor's QP, Contract Administrator and Project Leader's QP as soon as practicable (and within 2 Working Days) if irregularities are identified with trucking routes, or if any loads are rejected or re-routed, or if any incidents occur related to soil haulage.

GN 133.07.13 Rejected Loads

The Contractor shall identify and document contingency measures to be implemented in the event that the excess soil or engineered aggregate cannot be deposited at a proposed Receiving Site approved under GN 133.04.04, in accordance with Section 18.1 of O. Reg. 406/19. The contingency measures shall include the location of an alternate site at which the excess soil and engineered aggregate may be deposited or the circumstances in which the excess soil and engineered aggregate shall be returned to the Project Area. These contingency measures shall be documented in the ESDAR or the soil management plan, or in a separate document if neither is required, and shall be communicated to the Hauler for each load.

The contingency measures shall include details of the notification procedures. The Contractor shall immediately notify the Contractor's QP, Contract Administrator, and Project Leader's QP if any soil load is rejected by a Receiving Site. In these circumstances, the Contractor shall follow the contingency measures documented for each load, at no extra cost to the Project Leader.

If the rejected loads require additional sampling to support their deposition at an alternate Receiving Site, the Contractor shall take appropriate actions to ensure rejected loads are segregated from all other excess soil and engineered aggregate within the Project Area or at another approved location noted within the ESDAR, until the rejected loads can be re-sampled and disposed of appropriately. The Contractor shall be responsible to conduct additional sampling and to secure an appropriate alternate Receiving Site for the rejected loads. The Contractor shall ensure their QP obtains advice from the Project Leader's QP and the Contract Administrator when determining the appropriate Receiving Site for such rejected loads. The alternate Receiving Site shall be reviewed and approved by the Contract Administrator and Project Leader's QP prior to deposition. Any additional sampling required to deposit of rejected loads shall be at no extra cost to the Project Leader.

GN 133.07.14 Provincial Inspections and Orders

The Contractor shall immediately notify the Contract Administrator, Project Leader's QP, and Contractor's QP of a provincial inspection. Within 2 Working Days, the Contractor shall provide the Contract Administrator and Project Leader's QP with details of any provincial inspections and shall provide a copy of any records of inspection reports, e-mail or phone correspondences, draft or final provincial officers' orders, penalties or license plate seizures issued under O. Reg. 406/19 that are related to the excess soil generated from the Project Area.

GN 133.07.15 Soil and Engineered Aggregate Imported to Site

To the extent practicable, excavated soil and engineered aggregate (e.g., granular road base) are to be used to address backfill and grading needs within the Project Area. Soil intended to be reused on-site shall meet appropriate geotechnical requirements and soil quality standards required for the Work. Excavated engineered aggregate intended to be reuse on-sit shall meet appropriate standards and requirements (e.g., City specifications). If additional material is

required for the Work, the Contractor shall be responsible to find the necessary volumes of suitable soil and/or engineered aggregate for use on-site.

The Contractor shall inform the Contract Administrator and the Project Leader's QP if additional soil is required for the Work. The Contractor shall find soil that is geotechnically and environmentally suitable for the Work, and shall confirm the proposed soil meets the appropriate ESQS for placement at the Project Area under O. Reg. 406/19. Prior to the importation of any soil to the Project Area, the Contractor shall provide documentation such as Reuse Planning Reports (APU, SAP, SCR), geotechnical and soil analysis reports, fill management plans and/or any other documentation necessary to confirm the geotechnical and environmental suitability of the proposed soil for use at the Project Area. The Contractor shall also provide reliance letters for the above-noted documentation, where applicable. The Contractor shall provide the above-noted documentation to the Contract Administrator, to be reviewed by the Project Leader's QP for acceptance, at least 14 Calendar Days prior to the importation of soil to the Project Area.

If alternative fill material is required for the Work, the Contractor shall inform the Contract Administrator and the Project Leader's QP and shall provide sufficient documentation to confirm the geotechnical and environmental suitability of the proposed fill material for the Work, and to confirm that the proposed fill material meets the appropriate ESQS for placement at the Project Area under O. Reg. 406/19. The Contractor shall provide this documentation to the Contract Administrator, to be reviewed by the Project Leader's QP for acceptance, at least 14 Calendar Days prior to the importation of the fill material to the Project Area.

The Contractor shall provide the Contract Administrator and Project Leader's QP with a copy of completed Hauling Records for every load of soil or engineered aggregate brought onto the Project Area within 2 Working Days of importation.

GN133.07.16 Excess Soil Implementation Report

Within 14 Calendar Days of the completion of soil movement, the Contractor shall provide an Excess Soil Implementation Report, prepared by their QP, describing the final quantity of excess soil and engineered aggregate removed from the Project Area and deposited at each Receiving Site (including interim sites), details of all temporary (interim sites) and final destination sites (Receiving Sites), the dates of deposit, the quality of each soil type if applicable, rationale for discrepancies between estimated and actual excess soil and/or engineered aggregate volumes generated, discrepancies in volumes sent to each Receiving Site, details of any rejected loads, any incidents related to soil and/or engineered aggregate being sent to the incorrect destination, evaluation of the accuracy and completeness of all hauling records, as well as any other information related to soil storage, processing, treatment, transportation or tracking on the Work. The report shall include copies of all completed hauling records and all weight tickets generated (if applicable) for exported excess soil and engineered aggregate. The report shall be reviewed by the Project Leader's QP on behalf of the Contract Administrator within 7 Calendar Days for acceptance.

The Contractor will be responsible for delays in construction resulting from its failure to provide the required deliverables within the timelines provided for in this Agreement. The Contractor shall not be compensated for any delays or standby time resulting from the review and revision of the submissions that the Contractor or the Contractor's QP shall make to the satisfaction of the Project Leader's QP and the Contract Administrator.

GN 133.07.17 Document Retention

Upon completion of the Work, the Contractor shall provide the Contract Administrator with a copy of all new or updated records, plans, reports, and any other documentation related to the Work, which was not already submitted to the Contract Administrator during or prior to construction. In accordance with Section 28 of O. Reg. 406/19, the Contractor shall retain all records related to the transportation of excess soil, including all Hauling Records, for a period of at least two (2) years from the last date of soil movement. The Contractor shall retain all other reports, information, records, and data related to excess soil management on the Work, including any contracts relating to the management of excess soil, for a period of at least seven (7) years after substantial completion of the Contract. The Contractor shall provide copies of all these records to the Contract Administrator upon substantial completion, and the Contractor shall be able to provide copies of these records to the Contract Administrator at any time during this retention period, as requested.

GN 133.07.18 Construction Deliverables

The Contractor shall provide the following deliverables to the Contract Administrator, to be reviewed by the Project Leader's QP during construction, as required:

- A report or memo confirming that the excavated soil proposed for onsite reuse is of an appropriate environmental quality. (GN 133.07.02)
- Documentation for temporary storage of excess soil at a LWTF operated by the Contractor, if applicable (GN 133.07.04)
- Procedures related to any proposed soil processing within the Project Area and/or LWTF, including procedures for dewatering or solidification, if applicable (this may be incorporated within the soil management plan) (GN 133.07.05)
- Procedures for liquid soil and tunneling spoils management, if applicable (GN 133.07.06 and GN 133.07.07)
- Transportation plan, if applicable (GN 133.07.10)
- Hauling Records (GN 133.07.11)
- Routine soil tracking and excavation reports summarizing soil management activities (GN 133.07.12)
- Digital soil tracking system related outputs (GN 133.07.12)
- A contingency plan for rejected or re-routed loads (GN.133.07.13) shall be included in the ESDAR (GN133.04.03.01) or in the soil management plan (GN.133.04.06). If an ESDAR and a soil management plan are not required, a separate document for contingency plan shall be prepared.

- Soil quality reports or data related to excess soil, topsoil, or engineered aggregate intended to be reused at or imported to the Project Area, if applicable (GN133.07.15)
- Fill management plan, if applicable (GN 133.07.15)
- Excess Soil Implementation Report (GN 133.07.16)

The Contractor shall not be compensated for any delays or standby time resulting from the review and revision of the submissions to the satisfaction of the Contract Administrator and Project Leader's QP. The Contractor shall ensure all the required deliverables are overseen and prepared under supervision of the Contractor's QP and are signed by the Contractor's QP.

GN 133.08 QUALITY ASSURANCE – NOT USED

GN 133.09 MEASUREMENT FOR PAYMENT

GN 133.09.01 Soil Suitable for Reuse On-Site

Measurement of excess soil suitable for reuse on-site shall be by volume in cubic metres (m³) as evidenced by Hauling Records or mass in metric tonnes (MT) evidenced by weight tickets or Hauling Records.

GN 133.09.02 Excess Soil Suitable for Reuse Off -Site

Measurement of excess soil suitable for reuse off-site shall be by volume in cubic metres (m³) as evidenced by Hauling Records or mass in metric tonnes (MT) evidenced by weight tickets or Hauling Records.

GN 133.09.03 Excess Soil Deposited at Landfill

Measurement of excess soil requiring deposition at a licensed landfill shall be by mass in metric tonnes (MT) evidenced by weight tickets or Hauling Records or volume in cubic metres (m³) as evidenced by Hauling Records.

GN 133.09.04 Excess Soil Deposited at Class 1 Soil Management Site (SMS) – Not Used

GN 133.09.05 Transferred to Contractor's Yard

Measurement of excess soil of unknown quality that is temporarily transferred to Contractor's yard for sampling or temporary storage shall be by volume in cubic metres (m³) as evidenced by Hauling Records or mass in metric tonnes (MT) evidenced by weight tickets or Hauling Records.

GN 133.09.06 Hazardous Soil for Disposal

Measurement of hazardous soil (i.e., soil that produces leachate containing any of the contaminants listed in Schedule 4 of O. Reg. 347 at a concentration equal or greater than the concentration specified for that contaminant in Schedule 4 of O. Reg.) for disposal shall be by mass in metric tonnes (MT) evidenced by weight tickets or Hauling Records or volume in cubic metres (m³) as evidenced by Hauling Records.

GN 133.09.07 Stripping of Existing Engineered Aggregate and Disposal at Aggregate Recycling Facility

Measurement of existing engineered aggregate (e.g., granular road base) that is stripped (segregated from other road construction materials) and deposited at a licensed aggregate recycling facility shall be by volume in cubic metres (m³) evidenced by Hauling Records.

GN 133.10 BASIS FOR PAYMENT

All costs associated with this Work shall be included in the Contract Price for rehabilitation of existing pavement road and supply and installation of a pre-engineered and bunker building. No separate payment shall be made except for items as specified below.

GN 133.10.01 Soil Suitable for Reuse On-Site – Item

Payment at the Contract Price for the above tender item shall be full compensation for all labour, Equipment and Material to do the Work. Payment shall include the cost for excavation, loading, transportation and moving the excess soil on-site.

GN 133.10.02 Excess Soil Suitable for Reuse Off -Site – Item

Payment at the Contract Price for the above tender item shall be full compensation for all labour, Equipment and Material to do the Work. Payment shall include the cost for excavation, loading, transportation and delivering the excess soil off-site and all associated tipping fees.

GN 133.10.03 Excess Soil Deposited at Landfill– Item

Payment at the Contract Price for the above tender item shall be full compensation for all labour, Equipment and Material to do the Work. Payment shall include the cost for excavation, loading, transportation and disposal of excess soil tested by the Contract Administrator/ Project Leader's QP and identified as excess soil requiring deposition at a licensed landfill and all associated dump fees.

GN 133.10.04 Excess Soil Deposited at Class 1 Soil Management Site (SMS) – Item – Not Used

GN 133.10.05 Transferred to Contractor's Yard – Item

Payment at the Contract Price for the above tender item shall be full compensation for all labour, Equipment and Material to do the Work. Payment shall include the cost for excavation, loading, transportation, and sampling of excess soil transferred to Contractor's yard for sampling, if in-situ soil sampling is impracticable, or for approved temporary storage.

GN 133.10.06 Hazardous Soil for Disposal – Item

Payment at the Contract Price for the above tender item shall be full compensation for all labour, Equipment and Material to do the Work. Payment shall include the cost for excavation, loading, transportation, and disposal of excess soil identified as hazardous soil (i.e., soil that produces leachate containing any of the contaminants listed in Schedule 4 of O. Reg. 347 at a concentration equal or greater than the concentration specified for that contaminant in Schedule 4 of O. Reg.) for disposal at the waste disposal site and all associated dump fees.

GN 133.10.07 Stripping of Existing Engineered Aggregate and Disposal at Aggregate Recycling Facility – Item

Payment at the Contract Price for the above tender item shall be full compensation for all labour, Equipment and Material to do the Work. Payment shall include the cost for excavation, stripping, loading, transportation and disposal of existing engineered aggregate (e.g., granular road base) to a licensed aggregate recycling facility, and all associated tipping fees.

Information to Be Submitted With the Tender Submission

Each Supplier shall provide the name and confirm the experience requirements for the individual who will act as the Supplier's (Contractor's) Qualified Person as defined under O. Reg. 153/04 and O. Reg. 406/19 within *Part 4 – Form C & E*.